

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

**MISSISSIPPI POWER COMPANY
PLANT VICTOR DANIEL
NORTH ASH MANAGEMENT UNIT**

January 31, 2024

Prepared for

Mississippi Power Company
Gulfport, Mississippi

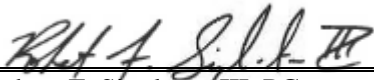
By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This *2023 Annual Groundwater Monitoring and Corrective Action Report*, Mississippi Power Company – Plant Daniel North Ash Management Unit has been prepared to comply with the United States Environmental Protection Agency coal combustion residual rule (40 Code of Federal Regulations (CFR) Part 257, Subpart D) under the supervision of a licensed Professional Geologist with Southern Company Services.



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SITE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), this *2023 Annual Groundwater Monitoring and Corrective Action Report* has been prepared to document 2023 semi-annual detection groundwater monitoring activities at the Plant Daniel North Ash Management Unit (NAMU) and to satisfy the requirements of § 257.90(e). Semi-annual detection monitoring and associated reporting for Plant Daniel NAMU is performed in accordance with the monitoring requirements § 257.90 through § 257.94.

Statistical evaluations identified statistically significant increases (SSIs) of Appendix III constituents above the GWPS during the April 2023 detection monitoring event. However, the constituents detected as SSIs during the first semi-annual detection monitoring event are previously addressed in an ASD report submitted in January 2022. As discussed in the ASD report, the apparent exceedances observed during the monitoring period are not likely the result of a release from the CCR unit. Therefore, in accordance with § 257.94, MPC will continue detection monitoring.

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

- Continue semi-annual assessment monitoring in 2024.
- Submit 2024 Annual Groundwater Monitoring and Corrective Action Report by January 31, 2025.

Pursuant to 40 CFR 257.90(e)(6), the table titled Monitoring Period Summary was prepared to describe the status of groundwater monitoring and corrective action during this report's monitoring period.

Monitoring Period Summary

Plant Daniel - North Ash Management Unit

Monitoring Period: January 1 - December 31, 2023
 Beginning Status: Detection
 Ending Status: Detection

STATISTICAL ANALYSIS RESULTS*

Appendix III SSIs

Parameter	Wells
Boron	None
Calcium	MW-19
Chloride	None
Fluoride	None
pH	MW-19
Sulfate	None
TDS	None

Appendix IV SSLs

Site Remains in Detection Monitoring (§ 257.94)

* See the attached report for further details regarding statistical exceedances.

ASSESSMENT OF CORRECTIVE MEASURES & GROUNDWATER REMEDY

Assessment of Corrective Measures

Site Remains in Detection Monitoring (§ 257.94)

Groundwater Remedy

Site Remains in Detection Monitoring (§ 257.94)

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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations (CFR) § 257 Subpart D), Southern Company Services (SCS) has prepared this *2023 Annual Groundwater Monitoring and Corrective Action Report* document groundwater monitoring activities at Mississippi Power Company (MPC) Plant Daniel North Ash Management Unit (NAMU).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements § 257.90 through § 257.94 of the Federal CCR rule. This report has been prepared to document the 2023 semi-annual groundwater monitoring events at the NAMU and to satisfy the requirements of § 257.90(e).

2.0 SITE DESCRIPTION

The Site is located within Section 35, Township 5 South, Range 6 West, Sections 37, 10, 15, East half of Section 9, Southwest ¼ of Section 2, Northwest ¼ and south half of Section 11, and the north half and northwest ¼ of the southwest ¼ of Section 14, all of Township 6 South, Range 6 West. The Site is northwest of the intersection of Mississippi State Highways 63 and 613, between the Pascagoula River to the west and Highway 63 to the east. The site address is 13201 Highway 63 N, Escatawpa, Mississippi 39562.

NAMU is located in the northernmost portion of the property. **Figure 1, Site Location Map**, depicts the location of Plant Daniel relative to site features and the surrounding area.

2.1 Regional Geology & Hydrogeologic Setting

Jackson County lies in the Pascagoula River Drainage Basin in the Gulf Coastal Plain physiographic province. Topographically, the province is gently rolling to flat with local salt marshes. Rock outcrops are sedimentary in origin and range in age from late Miocene to Recent (Gandl, 1982). A dominant regional structural feature which affects the sediments of Miocene and younger age is the Gulf Coast geosyncline. The sediments dip toward the Gulf of Mexico. Where formations are near the surface, dips are from 15 to 35 feet/mile. Further from the outcrop, dips increase dramatically with depth. Fresh-water aquifers in the Pascagoula area are sand or a mix of sand and gravel beds of Miocene age or younger. These freshwater aquifers and occur less than 1,000 feet below the surface.

The surface geology of soils near Plant Daniel results from present-day weathering processes dictated by southern Mississippi's semi-tropical climate and the parent geologic materials. The soil profile formed from a wide variety of sediments of recent age, and from Pleistocene terrace deposits. The soil therefore contains sand, silt, clay, gravel, and organics.

Studies prepared by SCS, establish five geologic units underlying the immediate Plant Daniel property:

- Unit 1 is a sandy clay aquitard. The unit is discontinuous across the Plant Daniel site and extends from the surface to approximately 32 feet deep in some areas.
- Unit 2 is a sand aquifer, which extends to approximately 70 feet and is considered the uppermost aquifer for groundwater monitoring purposes.
- Unit 3 is a clay aquitard underlying Unit 2 with thicknesses ranging from 2.5 to 9.5 feet at Plant Daniel.
- Unit 4 is a sand and gravel aquifer with a thickness of 34 feet or greater.
- Unit 5 is a clay aquitard.

2.2 Uppermost Aquifer

Two aquifers supply water to the Pascagoula area. These are the Pliocene-age Citronelle and the Miocene Aquifer System, which includes the Graham Ferry Aquifer. Plant Daniel is in the Citronelle aquifer outcrop area.

The Citronelle Aquifers are the shallowest aquifers in the Pascagoula area. Although principally a sand and gravel formation, the Citronelle is characterized by occasional lenses and layers of clay which may cause

semi-artesian conditions. Sediments become coarse near the irregular contact with the underlying Pascagoula or Graham Ferry Formation. Also, the Citronelle and overlying coastal deposits are considered one hydrogeologic unit. The Citronelle is primarily a water table aquifer with a saturated thickness of about 45 feet. Recharge is primarily by rainfall which moves vertically and down dip to recharge underlying aquifers and to sustain local streams (Wasson, 1978).

For groundwater monitoring purposes, the Unit 2 sand is the uppermost aquifer screened by site monitoring wells.

3.0 GROUNDWATER MONITORING SYSTEM AND ACTIVITY

Pursuant to § 257.91, MPC installed a groundwater monitoring system to monitor groundwater within the uppermost aquifer (Unit 2). The Professional Engineer (PE)-certified groundwater monitoring system for the NAMU is designed to monitor groundwater passing the waste boundary of the CCR unit within the uppermost aquifer. As required by § 257.90(e), the following also describes monitoring-related activities performed during the preceding year.

3.1 Groundwater Monitoring System

The groundwater monitoring network comprises seven wells as presented on Figure 2, Monitoring Well Location Map. **Table 1, Monitoring Well Network Summary**, summarizes the monitoring well construction details and design purpose for the NAMU.

Monitoring wells MW-11, MW-14, and MW-18 serve as upgradient locations for the NAMU. Upgradient wells are screened within the same uppermost aquifer as downgradient locations and are representative of background groundwater quality at the site. Monitoring well locations MW-15, MW-16, MW-17, and MW-19 are utilized as downgradient locations for NAMU. Downgradient locations were determined by water level monitoring and potentiometric surface maps constructed for the site.

3.2 Monitoring Well Installation and Maintenance

There was no change to the groundwater monitoring system in 2023; the network remained the same as in the previous reporting year. Monitoring well-related activities were limited to visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to perform sampling under safe and clean conditions.

3.3 Detection Monitoring

Based on results provided in previous Annual Groundwater and Corrective Action Monitoring Reports, the NAMU is performing detection monitoring. Samples were collected from wells in the PE-certified monitoring system shown on **Figure 2**. Analytical data from the semi-annual monitoring events are included as **Appendix A, Laboratory Analytical and Field Sampling Reports**, in accordance with the requirements of § 257.90(e)(3).

4.0 SAMPLE METHODOLOGY & ANALYSIS

The following describes the methods used to complete groundwater monitoring at NAMU.

4.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, groundwater levels were measured and recorded to the nearest 0.01 foot within 24 hours. Groundwater levels recorded during the monitoring events are summarized in **Table 2, Groundwater Elevations Summary – 2023**. Groundwater levels and top of casing elevations were used to calculate groundwater elevation and develop the potentiometric surface elevation contour map provided as **Figures 3 and 4, Potentiometric Surface Contour Map(s)**. As shown in **Figures 3 and 4**, the general direction of groundwater flow is west-southwest. The groundwater flow pattern observed during the 2023 monitoring events is consistent with historic observations.

Groundwater flow velocities 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, the average hydraulic conductivity is about 25 feet per day. The hydraulic gradient was calculated between well pairs shown on **Table 3, Groundwater Flow Velocity Calculations - 2023**. An effective porosity of 0.2 was used based on the default values for effective porosity recommended by USEPA for a silty sand-type soil (USEPA, 1989).

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 $\left(\frac{\text{feet}}{\text{day}}\right)$

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

i = Horizontal hydraulic gradient

n_e = Effective porosity

Using this equation, groundwater flow velocities are calculated for various areas of the site and are tabulated on **Table 3**.

Groundwater monitoring wells MW-14 and MW-16 were used as points for calculating Flow Path A and MW-11 and MW-19 were used to calculate Flow Path B. The horizontal hydraulic gradients ranged from 0.0030 feet per foot (ft/ft) to 0.0040 ft/ft. As presented on **Table 3**, groundwater flow velocity at the site ranges from approximately 0.37 feet per day (ft/day) (or approximately 135.33 feet per year) to 0.50 feet/day (or approximately 182.87 feet per year). These calculated groundwater flow velocities across the site are consistent with historical calculations and with expected velocities.

4.2 Groundwater Sampling

Groundwater samples were collected from monitoring wells using low-flow sampling procedures in accordance with § 257.93(a). All monitoring wells at the Site are equipped with a dedicated pump. Monitoring wells were purged and sampled using low-flow sampling procedures whereby samples are

collected when field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen (DO)) were stabilized. Groundwater stabilization criteria were:

- 0.2 standard units for pH
- 5% for specific conductance
- 0.2 mg/L or 10% for DO > 0.5 mg/l (whichever is greater)
- Turbidity measurements less than 5 nephelometric turbidity unit (NTU)
- Temperature and oxidation reduction potential (ORP) – record only, no stabilization criteria

During purging and sampling a SmarTroll instrument or similar 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.

4.3 Laboratory Analysis

Laboratory analyses was performed by Eurofins Environment Testing (Eurofins) of Pittsburgh, Pennsylvania and St. Louis, Missouri. Eurofins is accredited by the National Environmental Laboratory Accreditation Program (NELAP). Eurofins maintains a NELAP certification for all parameters analyzed for this project. Groundwater analytical data and chain-of-custody records for the monitoring events are presented in **Appendix A**.

4.4 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at a rate of one sample per every 10 detection samples. Equipment blanks and duplicate samples were also collected during each sampling event. QA/QC sample data was evaluated during data validation and is included in **Appendix A**. Values followed by a "J" flag indicate the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (RL). The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions.

Analytical precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source. Here, the comparison of samples to field duplicate samples is used as a measure of laboratory precision. For groundwater analytical data, quality control procedures include calculating the RPD (where field duplicates are collected) between the sample and duplicate sample duplicate concentrations. The calculation is:

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

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

A RPD is calculated for each constituent detected above the RL. Where the 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 4, Relative Percent Difference Calculations**, provides the relative percent differences for sample and sample duplicates during 2023 sampling events.

During the first 2023 semi-annual sampling event, RPD exceeded 20% for Total Dissolved Solids (TDS) for the sample and field duplicate collected at MW-11. The TDS concentrations observed in MW-11 for the parent and duplicate samples were 67.0 mg/L and 47.0 mg/L, respectively, resulting in an RPD of 35.1%. If RPD exceeds 20% for samples with concentrations greater than five times the RL (10.0 mg/L), the parent sample and duplicate sampling are qualified with "(+) J." When the concentrations in the parent sample or duplicate sample are less than five times the RL and the difference between the parent sample concentration and duplicate concentration are greater than the RL, the parent and duplicate samples are qualified with "(+) J, (ND) UJ." A summary of qualified data from the first semi-annual sampling event of 2023 is provided below.

Sample Location	Constituent	Sample Concentration (mg/L)	Field Duplicate Concentration (mg/L)	RPD (%)	Reporting Limit (mg/L)	Data Qualifier
MW-11	TDS	67.0 mg/L	47.0 mg/L	35.1%	10.0 mg/L	(+) J, (ND) UJ

No additional data qualification is required for the first or second semi-annual detection events of 2023.

5.0 STATISTICAL ANALYSIS

Statistical analysis of Appendix III groundwater monitoring data was performed on samples collected from the certified groundwater monitoring network pursuant to 40 CFR § 257.93 and following the appropriate PE-certified method. The statistical method used at the site was developed by Groundwater Stats Consulting, LLC (GSC), in accordance with 40 CFR § 257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, EPA 530/R-09-007 (USEPA, 2009). Results are included in **Appendix B, Statistical Data Evaluation**.

5.1 Statistical Method

At NAMU, intrawell prediction limits (PL) are used to compare the most recent sample to prediction limits constructed from screened historical data from within the same well for each of the Appendix III parameters and determine whether any concentrations exceed background levels. The selected statistical method includes a 1-of-2 verification resample plan. If the intrawell PL is exceeded, the two-step analysis procedure is enacted whereby interwell PL are constructed using pooled upgradient well data to evaluate the apparent intrawell PL exceedances among downgradient wells. When an initial (or apparent) statistically significant increase or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. If the second sample exceeds its respective background statistical limit, a statistically significant increase (SSI) is identified. If the second sample is below its respective background limit, there is no SSI.

5.2 Statistical Analysis Results

Analytical data from the 2023 semi-annual monitoring events in April and October were statistically analyzed in accordance with the PE-certified Statistical Analysis Plan (October 2017), Statistical Background Update by GSC (December 2019), and revised Statistical Analysis Plan (October 2022).

A review of the Sanitas results, presented in **Appendix B**, identified the following Appendix III SSIs during the first semi-annual monitoring event:

- MW-19: Calcium, pH, TDS

Per the outlined statistical methods, MW-19 was resampled for calcium, pH, and TDS in May 2023, within 90 days of the initial exceedances. The resample confirmed the calcium and pH exceedances, but TDS was below the PL, and thereby not a confirmed SSI. A review of the revised Sanitas results, presented in **Appendix B**, identified the following verified Appendix III SSIs for the first semi-annual monitoring event:

- MW-19: Calcium, pH

During the second semi-annual monitoring event, no SSIs were identified, including those previously reported at MW-19.

As discussed in the following section, an alternate source demonstration (ASD) was prepared and submitted in January 2022 pursuant to 40 CFR § 257.94(e)(2) demonstrating that the SSIs at MW-19 are not the result of a release from the CCR unit.

6.0 ALTERNATE SOURCE DEMONSTRATION

Section 257.94(e)(2) allows the owner or operator to demonstrate that a source other than the CCR Unit has caused an SSI or that the SSI was the result of an alternate source or resulted from errors in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. An ASD report for SSIs identified during the 2021 semi-annual detection monitoring events was submitted on January 31, 2022. As discussed in the ASD report, the apparent exceedances observed were not the result of a release from the CCR unit and are caused by natural variability in groundwater quality. Based on the ASD, the NAMU remains in detection monitoring.

7.0 MONITORING PROGRAM STATUS

Presently, Plant Daniel NAMU is in detection monitoring. SSIs of Appendix III parameters have been identified during the first semi-annual event of 2023. Pursuant to § 257.94(e)(1), MPC has prepared a demonstration that a source other than the CCR unit was the cause of the exceedances. MPC has addressed the reported SSIs in accordance with the requirements, and options, of § 257.94(e) (1-3) and (f) by providing an ASD, submitted January 31, 2022, as described in Section 6.0.

8.0 CONCLUSIONS & FUTURE ACTIONS

Based on results reported in the *2023 Annual Groundwater and Corrective Action Monitoring Report*, MPC remained in detection monitoring. Groundwater samples were subsequently collected from the certified well network and analyzed for Appendix III parameters.

The certified compliance monitoring well network is sampled on a semi-annual basis. The groundwater samples were analyzed for all Appendix III parameters. Statistical evaluations of the April and October 2023 detection monitoring data identified SSIs of Appendix III constituents above the GWPS. However, an ASD report submitted in January 2022 addresses these SSIs. As discussed in the ASD report, the apparent exceedances observed during the monitoring period are likely not the result of a release from the CCR unit.

Therefore, in accordance with § 257.94, MPC will continue detection monitoring. The following future actions will be taken or are recommended for the Site:

- Continue semi-annual detection monitoring in 2024.
- Submit 2023 Annual Groundwater Monitoring and Corrective Action Report by January 31, 2025.

9.0 REFERENCES

- Gandl, L.A. “Characterization of Aquifers Designated as Potential Drinking Water Sources in Mississippi,” Water Resources Investigation Open-File Report 81-550, Mississippi Department of Natural Resources, Bureau of Pollution Control. 1982. 90 pp.
- Southern Company Services, Inc., Alternate Source Demonstration, 2021 Semi-Annual Monitoring Events, Mississippi Power Company, Plant Victor Daniel, North Ash Management Unit, January 31, 2022.
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- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March.
- 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 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.
- USEPA. 2011. *Data Validation Standard Operating Procedures.* Science and Ecosystem Support Division. Region IV. Athens, GA. September.
- USEPA. 2017. National Functional Guidelines for Inorganic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January.
- Wasson, B.E., 1978, Availability of additional ground-water supplies in the Pascagoula area, Mississippi: Mississippi Research and Development Center Bulletin, 32 p.

Tables

Table 1.
Monitoring Well Network Summary

Well ID	Purpose	Installation Date	Latitude	Longitude	Total Well Depth (feet)	Top of Casing Elevation (feet MSL)	Ground Elevation (feet MSL)	Top of Screen Elevation (feet MSL)	Bottom of Screen Elevation (feet MSL)
MW-11	Upgradient	5/2/2006	30.55781	-88.56425	34.02	25.24	23.22	-3.78	-8.78
MW-14	Upgradient	7/24/2015	30.55575	-88.56435	40.78	23.65	20.87	-11.83	-16.83
MW-15	Downgradient	7/24/2015	30.55426	-88.56544	39.44	21.53	18.69	-12.41	-17.61
MW-16	Downgradient	7/24/2015	30.55451	-88.56775	28.36	16.12	13.16	-6.94	-11.94
MW-17	Downgradient	7/24/2015	30.55778	-88.56786	28.62	15.41	12.59	-7.91	-12.91
MW-18	Upgradient	7/24/2015	30.55917	-88.56479	44.43	28.86	26.33	-10.27	-15.27
MW-19	Downgradient	7/26/2016	30.55606	-88.56818	32.76	24.42	21.56	-3.04	-8.04

Notes:

1. Elevations shown are referenced Mean Sea Level (MSL) to NAVD 88 (G12) U.S. Survey Feet.
2. MSL refers to Mean Sea Level.

Table 2.
Groundwater Elevations Summary - 2023

Well ID	Top of Casing Elevation (feet MSL)	Groundwater Elevations (feet MSL)	
		April 17, 2023	October 23, 2023
MW-11	25.24	12.44	10.78
MW-14	23.65	11.45	9.88
MW-15	21.53	10.05	8.48
MW-16	16.12	7.46	5.02
MW-17	15.41	8.57	7.03
MW-18	28.86	12.45	10.77
MW-19	24.42	7.01	4.39

Notes:

1. MSL refers to Mean Sea Level

**Table 3.
Groundwater Flow Velocity Calculations - 2023**

Flow Path A								
	MW-14	MW-16	Distance	Hydraulic Gradient	Hydraulic Conductivity	Assumed Effective Porosity (ne)	Calculated Groundwater Flow Velocity (feet/day)	Calculated Groundwater Flow Velocity (feet/year)
	h₁ (ft)	h₂ (ft)	Δl (ft)	Δh/Δl (ft/ft)	K			
4/17/2023	11.45	7.46	1350	0.0030	25.09	0.2	0.37	135.33
10/23/2023	9.88	5.02	1350	0.0036	25.09	0.2	0.45	164.84

Flow Path B								
	MW-11	MW-19	Distance	Hydraulic Gradient	Hydraulic Conductivity	Assumed Effective Porosity (ne)	Calculated Groundwater Flow Velocity (feet/day)	Calculated Groundwater Flow Velocity (feet/year)
	h₁ (ft)	h₂ (ft)	Δl (ft)	Δh/Δl (ft/ft)	K			
4/17/2023	12.44	7.01	1600	0.0034	25.09	0.2	0.43	155.40
10/23/2023	10.78	4.39	1600	0.0040	25.09	0.2	0.50	182.87

Notes:

ft=feet

ft/d = feet/day

ft/ft = feet per foot

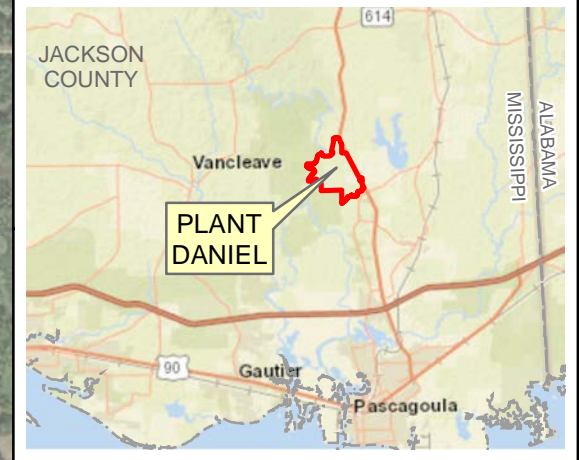
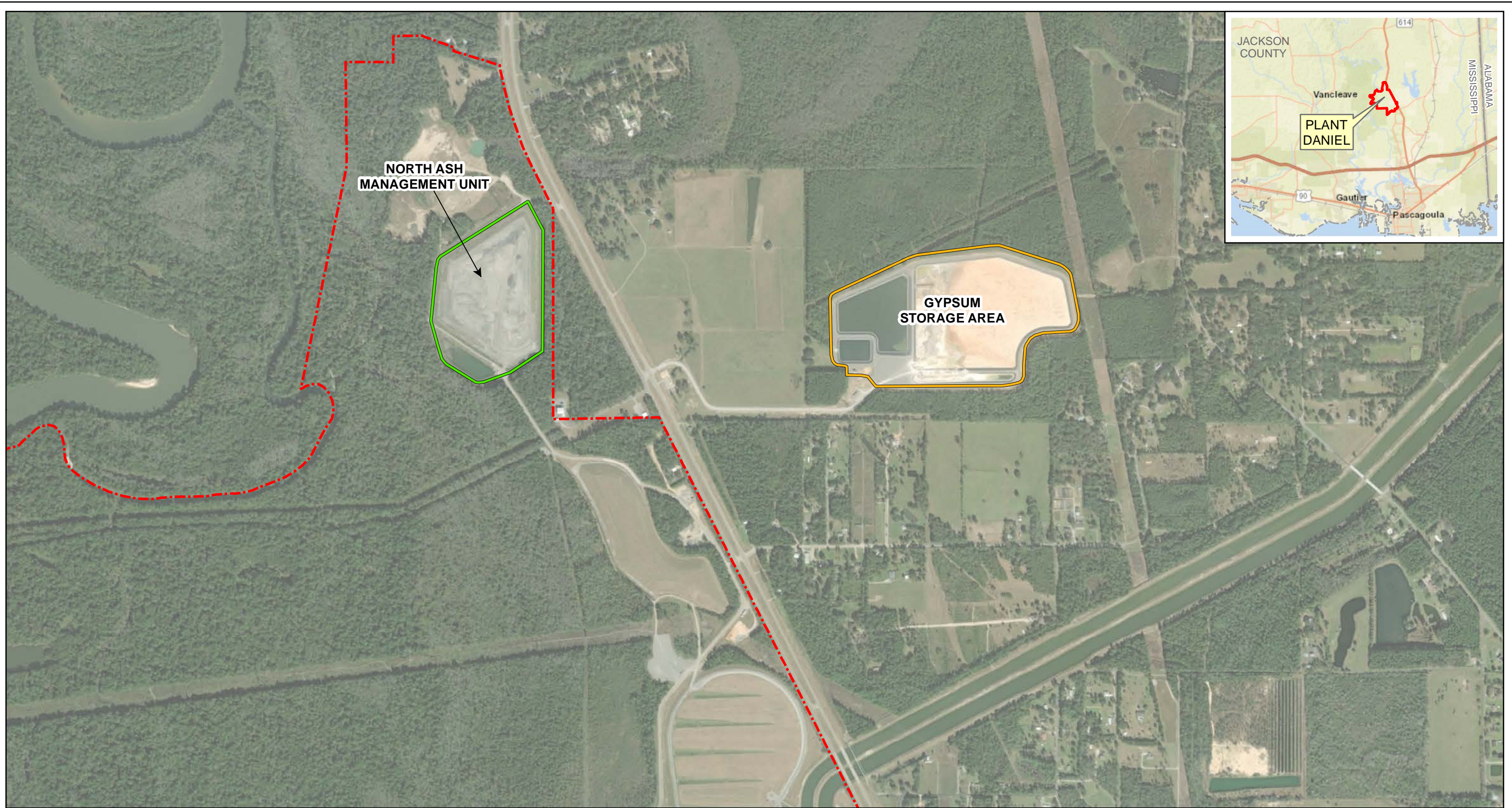
ft/yr = feet per year




Table 4.
Relative Percent Difference Calculations

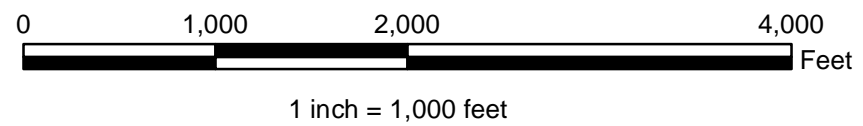
1st Semi-Annual Monitoring Event				
Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		MW-11	DUP-01	
Chloride	mg/L	12.2	12.3	0.8
Sulfate	mg/L	2.85	2.97	4.1
Calcium	mg/L	1.65	1.65	0.0
TDS	mg/L	67.0	47.0	35.1
Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		MW-16	DUP-02	
Chloride	mg/L	10.00	10.20	2.0
Sulfate	mg/L	2.59	2.73	5.3
Calcium	mg/L	1.07	1.07	0.0
TDS	mg/L	37.0	38.0	2.7

2nd Semi-Annual Monitoring Event				
Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		MW-11	DUP-04	
Chloride	mg/L	12.1	11.9	1.7
Sulfate	mg/L	2.72	2.67	1.9
Calcium	mg/L	1.42	1.49	4.8
TDS	mg/L	21.0	21.0	0.0
Parameter	Units	Monitoring Point Identification		Relative Percent Difference (RPD %)
		MW-19	DUP-01	
Chloride	mg/L	6.8	6.4	6.3
Sulfate	mg/L	2.62	2.48	5.5
Calcium	mg/L	1.70	1.73	1.7
TDS	mg/L	32.0	38.0	17.1

Figures



- Legend**
-  Gypsum Storage Area
 -  North Ash Management Unit
 -  Property Boundary (Approximate)



SCALE	1:12000
DATE	12/21/2023
DRAWN BY	KAR
CHECKED BY	RFS





DRAWING TITLE
**SITE LOCATION MAP
 PLANT DANIEL
 NORTH ASH MANAGEMENT UNIT**

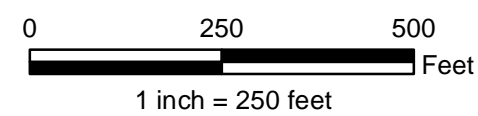
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FIGURE 1





Legend

-  Upgradient Monitoring Well
-  Downgradient Monitoring Well
-  Piezometer (Water Level Only)
-  North Ash Management Unit

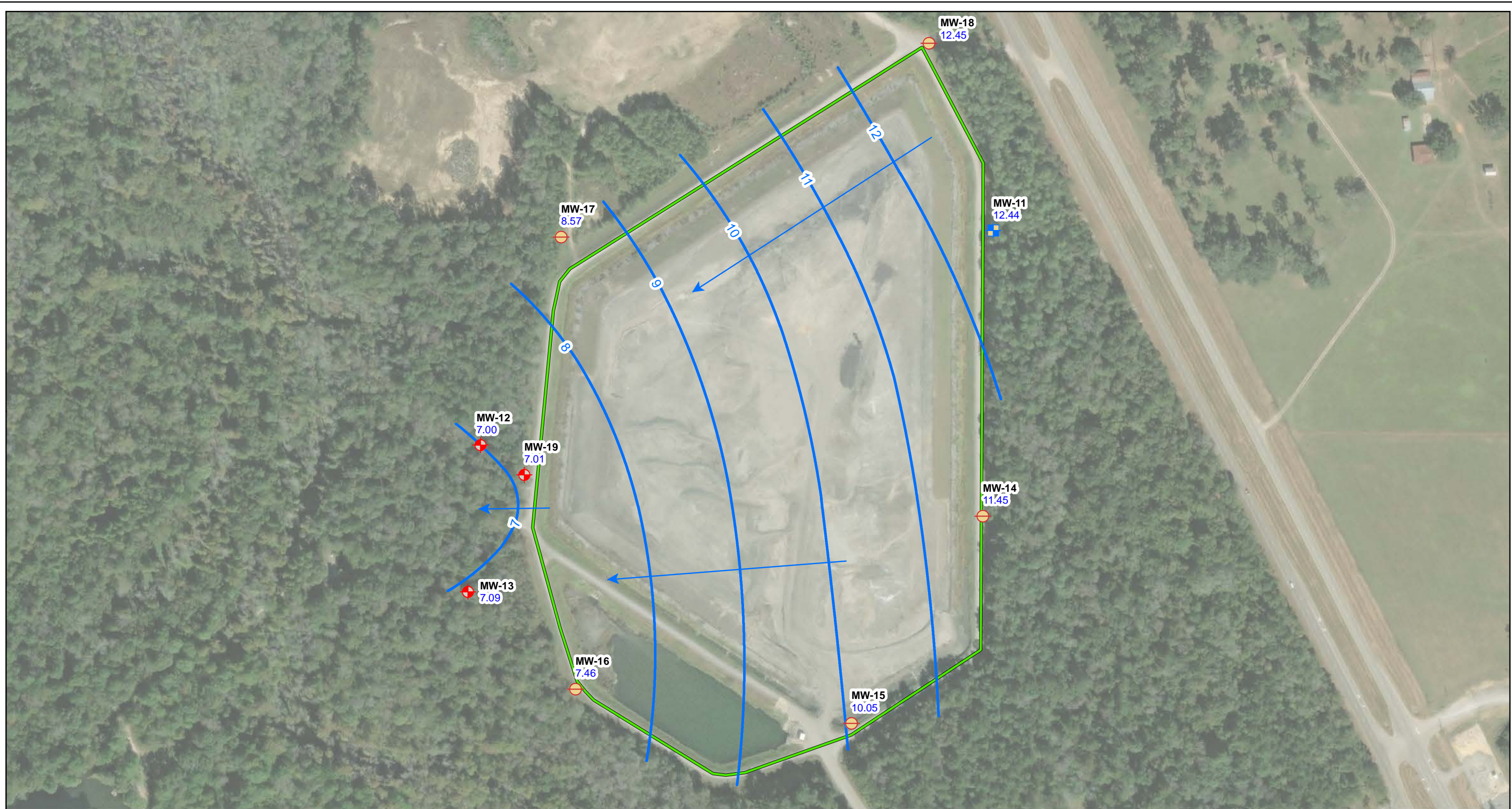


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CHECKED BY	RFS

DRAWING TITLE
**MONITORING WELL LOCATION MAP
 PLANT DANIEL
 NORTH ASH MANAGEMENT UNIT**

DRAWING NO
FIGURE 2

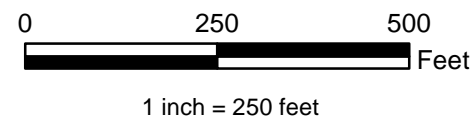




Legend

- Upgradient Monitoring Well
- Downgradient Monitoring Well
- Piezometer (Water Level Only)
- North Ash Management Unit
- Estimated Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction

MW-11 Well Name
12.44 Groundwater Elevation (ft NAVD88)



Note: ft NAVD88 indicates feet relative to the North American Vertical Datum of 1988.

SCALE	1:3000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP APRIL 17, 2023 PLANT DANIEL NORTH ASH MANAGEMENT UNIT
DATE	12/21/2023	
DRAWN BY	KWR	DRAWING NO FIGURE 3
CHECKED BY	RFS	
		Southern Company



Legend Upgradient Monitoring Well Downgradient Monitoring Well Piezometer (Water Level Only) North Ash Management Unit Estimated Potentiometric Surface Contour (ft NAVD88) Approximate Groundwater Flow Direction	 N	 0 250 500 Feet 1 inch = 250 feet Note: ft NAVD88 indicates feet relative to the North American Vertical Datum of 1988.	SCALE 1:3000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP OCTOBER 23, 2023 PLANT DANIEL NORTH ASH MANAGEMENT UNIT	
			DATE 12/21/2023	DRAWING NO FIGURE 4	
			DRAWN BY KWR	Southern Company	
			CHECKED BY RFS		

Appendix A

1st
Semi-Annual
Monitoring Event



ANALYTICAL REPORT

PREPARED FOR

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 5/10/2023 3:40:02 PM Revision 1

JOB DESCRIPTION

Plant Daniel NAMU CCR

JOB NUMBER

180-155476-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Authorized for release by
Shali Brown, Project Manager II
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(615)301-5031

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Revision 1



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Case Narrative

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Job ID: 180-155476-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-155476-1**

051023 Reviwed report to include field pH data at client request. This report replaces the report previously issued on 050423

Receipt

The samples were received on 4/21/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7°C and 2.6°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Definitions/Glossary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	05-03-23
California	State	2891	04-30-23
Connecticut	State	PH-0688	05-03-23
Florida	NELAP	E871008	05-03-23
Georgia	State	PA 02-00416	04-30-23
Illinois	NELAP	004375	05-03-23
Kansas	NELAP	E-10350	05-03-23
Kentucky (UST)	State	162013	04-30-23
Kentucky (WW)	State	KY98043	05-03-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	05-03-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	05-03-23
New Hampshire	NELAP	2030	05-03-23
New Jersey	NELAP	PA005	05-03-23
New York	NELAP	11182	05-03-23
North Carolina (WW/SW)	State	434	05-03-23
North Dakota	State	R-227	04-30-23
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	05-03-23
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23
Texas	NELAP	T104704528	05-03-23
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-03-23
Virginia	NELAP	10043	05-03-23
West Virginia DEP	State	142	05-03-23
Wisconsin	State	998027800	08-31-23

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-23
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-23
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23
Georgia (DW)	State	803	06-30-23
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-23
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-23
Iowa	State	353	07-01-23
Kentucky (UST)	State	NA	06-30-23
Louisiana	NELAP	30690	06-30-23
Louisiana (All)	NELAP	30690	06-30-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-23
Michigan	State	9925	06-30-23
Mississippi	State	<cert No.>	06-30-23
Nebraska	State	NE-OS-7-04	06-30-23
New Jersey	NELAP	GA769	06-30-23
New Mexico	State	GA00006	06-30-23
North Carolina (DW)	State	13701	07-31-23
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-23
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23
Tennessee	State	TN02961	06-30-23
Texas	NELAP	T1047004185-19-14	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-23
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-23
Wyoming	State	8TMS-L	06-30-23

Sample Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-155476-1	MW-11	Water	04/19/23 15:50	04/21/23 09:30
180-155476-2	MW-14	Water	04/19/23 12:54	04/21/23 09:30
180-155476-3	MW-15	Water	04/19/23 09:32	04/21/23 09:30
180-155476-4	MW-16	Water	04/20/23 11:57	04/21/23 09:30
180-155476-5	MW-17	Water	04/20/23 07:40	04/21/23 09:30
180-155476-6	MW-18	Water	04/19/23 17:25	04/21/23 09:30
180-155476-7	MW-19	Water	04/20/23 09:18	04/21/23 09:30
180-155476-8	DUP-01	Water	04/19/23 14:50	04/21/23 09:30
180-155476-9	DUP-02	Water	04/20/23 10:57	04/21/23 09:30
180-155476-10	EB-01	Water	04/20/23 08:51	04/21/23 09:30
180-155476-11	FB-01	Water	04/20/23 08:41	04/21/23 09:30

- 1
- 2
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- 11
- 12
- 13

Method Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Method	Method Description	Protocol	Laboratory
EPA 9056A	Anions, Ion Chromatography	SW846	EET PIT
6020B	Metals (ICP/MS)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Client Sample ID: MW-11
Date Collected: 04/19/23 15:50
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	433276	04/25/23 14:39	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			776852	05/03/23 18:09	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	433500	04/26/23 19:13	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			434791	04/19/23 16:50	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: MW-14
Date Collected: 04/19/23 12:54
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	433276	04/25/23 15:24	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			776852	05/03/23 18:21	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	433500	04/26/23 19:13	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			434791	04/19/23 13:54	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: MW-15
Date Collected: 04/19/23 09:32
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	433276	04/25/23 15:38	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			776852	05/03/23 18:29	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	433500	04/26/23 19:13	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			434791	04/19/23 10:32	FDS	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Client Sample ID: MW-16
Date Collected: 04/20/23 11:57
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	433276	04/25/23 15:53	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			776852	05/03/23 18:41	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	433644	04/27/23 18:38	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			434791	04/20/23 12:57	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: MW-17
Date Collected: 04/20/23 07:40
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	433276	04/25/23 16:08	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			776852	05/03/23 18:13	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	433644	04/27/23 18:38	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			434791	04/20/23 08:40	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: MW-18
Date Collected: 04/19/23 17:25
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	433276	04/25/23 16:23	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			776852	05/03/23 18:25	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	433500	04/26/23 19:13	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			434791	04/19/23 18:25	FDS	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Client Sample ID: MW-19
Date Collected: 04/20/23 09:18
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	433276	04/25/23 17:07	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			776852	05/03/23 18:37	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	433644	04/27/23 18:38	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			434791	04/20/23 10:18	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-01
Date Collected: 04/19/23 14:50
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	433276	04/25/23 17:22	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			776852	05/03/23 18:17	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	433500	04/26/23 19:13	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-02
Date Collected: 04/20/23 10:57
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	433276	04/25/23 17:37	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			776852	05/03/23 18:33	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	433644	04/27/23 18:38	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-01
Date Collected: 04/20/23 08:51
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	433276	04/25/23 17:51	SNL	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B		1			776852	05/03/23 17:52	BWR	EET SAV
Instrument ID: ICPMSC										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Client Sample ID: EB-01

Date Collected: 04/20/23 08:51

Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	433644	04/27/23 18:38	LWM	EET PIT

Client Sample ID: FB-01

Date Collected: 04/20/23 08:41

Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A Instrument ID: CHICS2100B		1	1 mL	1 mL	433276	04/25/23 18:06	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	125 mL	776373	05/02/23 09:23	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSC		1			776852	05/03/23 17:56	BWR	EET SAV
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	433644	04/27/23 18:38	LWM	EET PIT

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Analyst References:

Lab: EET PIT

Batch Type: Analysis

FDS = Sampler Field

LWM = Leslie McIntire

SNL = Sean Lordo

Lab: EET SAV

Batch Type: Prep

RR = Robert Rancourt

Batch Type: Analysis

BWR = Bryn Robertson

Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Client Sample ID: MW-11

Lab Sample ID: 180-155476-1

Date Collected: 04/19/23 15:50

Matrix: Water

Date Received: 04/21/23 09:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.2		1.00	0.713	mg/L			04/25/23 14:39	1
Fluoride	0.0416	J	0.100	0.0260	mg/L			04/25/23 14:39	1
Sulfate	2.85		1.00	0.756	mg/L			04/25/23 14:39	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 18:09	1
Calcium	1.65		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 18:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	67.0		10.0	10.0	mg/L			04/26/23 19:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.61				SU			04/19/23 16:50	1

Client Sample ID: MW-14

Lab Sample ID: 180-155476-2

Date Collected: 04/19/23 12:54

Matrix: Water

Date Received: 04/21/23 09:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		1.00	0.713	mg/L			04/25/23 15:24	1
Fluoride	0.0415	J	0.100	0.0260	mg/L			04/25/23 15:24	1
Sulfate	1.93		1.00	0.756	mg/L			04/25/23 15:24	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 18:21	1
Calcium	2.63		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 18:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	41.0		10.0	10.0	mg/L			04/26/23 19:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.80				SU			04/19/23 13:54	1

Client Sample ID: MW-15

Lab Sample ID: 180-155476-3

Date Collected: 04/19/23 09:32

Matrix: Water

Date Received: 04/21/23 09:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.21		1.00	0.713	mg/L			04/25/23 15:38	1
Fluoride	0.0275	J	0.100	0.0260	mg/L			04/25/23 15:38	1
Sulfate	2.42		1.00	0.756	mg/L			04/25/23 15:38	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Client Sample ID: MW-15

Lab Sample ID: 180-155476-3

Date Collected: 04/19/23 09:32

Matrix: Water

Date Received: 04/21/23 09:30

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 18:29	1
Calcium	0.682		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 18:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	31.0		10.0	10.0	mg/L			04/26/23 19:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.70				SU			04/19/23 10:32	1

Client Sample ID: MW-16

Lab Sample ID: 180-155476-4

Date Collected: 04/20/23 11:57

Matrix: Water

Date Received: 04/21/23 09:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.0		1.00	0.713	mg/L			04/25/23 15:53	1
Fluoride	0.0322	J	0.100	0.0260	mg/L			04/25/23 15:53	1
Sulfate	2.59		1.00	0.756	mg/L			04/25/23 15:53	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 18:41	1
Calcium	1.07		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	37.0		10.0	10.0	mg/L			04/27/23 18:38	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.50				SU			04/20/23 12:57	1

Client Sample ID: MW-17

Lab Sample ID: 180-155476-5

Date Collected: 04/20/23 07:40

Matrix: Water

Date Received: 04/21/23 09:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.73		1.00	0.713	mg/L			04/25/23 16:08	1
Fluoride	0.0271	J	0.100	0.0260	mg/L			04/25/23 16:08	1
Sulfate	3.44		1.00	0.756	mg/L			04/25/23 16:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 18:13	1
Calcium	0.855		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 18:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	30.0		10.0	10.0	mg/L			04/27/23 18:38	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Client Sample ID: MW-17

Date Collected: 04/20/23 07:40
 Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-5

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.79				SU			04/20/23 08:40	1

Client Sample ID: MW-18

Date Collected: 04/19/23 17:25
 Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-6

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.08		1.00	0.713	mg/L			04/25/23 16:23	1
Fluoride	0.0297	J	0.100	0.0260	mg/L			04/25/23 16:23	1
Sulfate	7.48		1.00	0.756	mg/L			04/25/23 16:23	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0256	J	0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 18:25	1
Calcium	0.368	J	0.500	0.140	mg/L		05/02/23 09:23	05/03/23 18:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	29.0		10.0	10.0	mg/L			04/26/23 19:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.65				SU			04/19/23 18:25	1

Client Sample ID: MW-19

Date Collected: 04/20/23 09:18
 Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-7

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.84		1.00	0.713	mg/L			04/25/23 17:07	1
Fluoride	0.0566	J	0.100	0.0260	mg/L			04/25/23 17:07	1
Sulfate	3.73		1.00	0.756	mg/L			04/25/23 17:07	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0318	J	0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 18:37	1
Calcium	15.4		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 18:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	66.0		10.0	10.0	mg/L			04/27/23 18:38	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.06				SU			04/20/23 10:18	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Client Sample ID: DUP-01

Date Collected: 04/19/23 14:50

Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-8

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.3		1.00	0.713	mg/L			04/25/23 17:22	1
Fluoride	0.0457	J	0.100	0.0260	mg/L			04/25/23 17:22	1
Sulfate	2.97		1.00	0.756	mg/L			04/25/23 17:22	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 18:17	1
Calcium	1.65		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	47.0		10.0	10.0	mg/L			04/26/23 19:13	1

Client Sample ID: DUP-02

Date Collected: 04/20/23 10:57

Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-9

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.2		1.00	0.713	mg/L			04/25/23 17:37	1
Fluoride	0.0376	J	0.100	0.0260	mg/L			04/25/23 17:37	1
Sulfate	2.73		1.00	0.756	mg/L			04/25/23 17:37	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 18:33	1
Calcium	1.07		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 18:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	38.0		10.0	10.0	mg/L			04/27/23 18:38	1

Client Sample ID: EB-01

Date Collected: 04/20/23 08:51

Date Received: 04/21/23 09:30

Lab Sample ID: 180-155476-10

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.713		1.00	0.713	mg/L			04/25/23 17:51	1
Fluoride	<0.0260		0.100	0.0260	mg/L			04/25/23 17:51	1
Sulfate	<0.756		1.00	0.756	mg/L			04/25/23 17:51	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 17:52	1
Calcium	<0.140		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10.0		10.0	10.0	mg/L			04/27/23 18:38	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Client Sample ID: FB-01

Lab Sample ID: 180-155476-11

Date Collected: 04/20/23 08:41

Matrix: Water

Date Received: 04/21/23 09:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.713		1.00	0.713	mg/L			04/25/23 18:06	1
Fluoride	<0.0260		0.100	0.0260	mg/L			04/25/23 18:06	1
Sulfate	<0.756		1.00	0.756	mg/L			04/25/23 18:06	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 17:56	1
Calcium	<0.140		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10.0		10.0	10.0	mg/L			04/27/23 18:38	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Method: EPA 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 180-433276/6
Matrix: Water
Analysis Batch: 433276

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.713		1.00	0.713	mg/L			04/25/23 10:16	1
Fluoride	<0.0260		0.100	0.0260	mg/L			04/25/23 10:16	1
Sulfate	<0.756		1.00	0.756	mg/L			04/25/23 10:16	1

Lab Sample ID: LCS 180-433276/7
Matrix: Water
Analysis Batch: 433276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	48.38		mg/L		97	80 - 120
Fluoride	2.50	2.505		mg/L		100	80 - 120
Sulfate	50.0	49.54		mg/L		99	80 - 120

Lab Sample ID: 180-155476-1 MS
Matrix: Water
Analysis Batch: 433276

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.2		50.0	63.83		mg/L		103	80 - 120
Fluoride	0.0416	J	2.50	2.731		mg/L		108	80 - 120
Sulfate	2.85		50.0	56.00		mg/L		106	80 - 120

Lab Sample ID: 180-155476-1 MSD
Matrix: Water
Analysis Batch: 433276

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.2		50.0	59.70		mg/L		95	80 - 120	7	15
Fluoride	0.0416	J	2.50	2.544		mg/L		100	80 - 120	7	15
Sulfate	2.85		50.0	52.12		mg/L		99	80 - 120	7	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-776373/1-A
Matrix: Water
Analysis Batch: 776852

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 776373

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.100	0.0220	mg/L		05/02/23 09:23	05/03/23 17:20	1
Calcium	<0.140		0.500	0.140	mg/L		05/02/23 09:23	05/03/23 17:20	1

Lab Sample ID: LCS 680-776373/2-A
Matrix: Water
Analysis Batch: 776852

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 776373

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.1991		mg/L		100	80 - 120
Calcium	5.00	5.048		mg/L		101	80 - 120

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-433500/1
Matrix: Water
Analysis Batch: 433500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10.0		10.0	10.0	mg/L			04/26/23 19:13	1

Lab Sample ID: LCS 180-433500/2
Matrix: Water
Analysis Batch: 433500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	580	594.0		mg/L		102	85 - 115

Lab Sample ID: MB 180-433644/1
Matrix: Water
Analysis Batch: 433644

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10.0		10.0	10.0	mg/L			04/27/23 18:38	1

Lab Sample ID: LCS 180-433644/2
Matrix: Water
Analysis Batch: 433644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	580	586.0		mg/L		101	85 - 115

Lab Sample ID: 180-155476-7 DU
Matrix: Water
Analysis Batch: 433644

Client Sample ID: MW-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	66.0		68.00		mg/L		3	10

QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

HPLC/IC

Analysis Batch: 433276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155476-1	MW-11	Total/NA	Water	EPA 9056A	
180-155476-2	MW-14	Total/NA	Water	EPA 9056A	
180-155476-3	MW-15	Total/NA	Water	EPA 9056A	
180-155476-4	MW-16	Total/NA	Water	EPA 9056A	
180-155476-5	MW-17	Total/NA	Water	EPA 9056A	
180-155476-6	MW-18	Total/NA	Water	EPA 9056A	
180-155476-7	MW-19	Total/NA	Water	EPA 9056A	
180-155476-8	DUP-01	Total/NA	Water	EPA 9056A	
180-155476-9	DUP-02	Total/NA	Water	EPA 9056A	
180-155476-10	EB-01	Total/NA	Water	EPA 9056A	
180-155476-11	FB-01	Total/NA	Water	EPA 9056A	
MB 180-433276/6	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-433276/7	Lab Control Sample	Total/NA	Water	EPA 9056A	
180-155476-1 MS	MW-11	Total/NA	Water	EPA 9056A	
180-155476-1 MSD	MW-11	Total/NA	Water	EPA 9056A	

Metals

Prep Batch: 776373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155476-1	MW-11	Total Recoverable	Water	3005A	
180-155476-2	MW-14	Total Recoverable	Water	3005A	
180-155476-3	MW-15	Total Recoverable	Water	3005A	
180-155476-4	MW-16	Total Recoverable	Water	3005A	
180-155476-5	MW-17	Total Recoverable	Water	3005A	
180-155476-6	MW-18	Total Recoverable	Water	3005A	
180-155476-7	MW-19	Total Recoverable	Water	3005A	
180-155476-8	DUP-01	Total Recoverable	Water	3005A	
180-155476-9	DUP-02	Total Recoverable	Water	3005A	
180-155476-10	EB-01	Total Recoverable	Water	3005A	
180-155476-11	FB-01	Total Recoverable	Water	3005A	
MB 680-776373/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-776373/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 776852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155476-1	MW-11	Total Recoverable	Water	6020B	776373
180-155476-2	MW-14	Total Recoverable	Water	6020B	776373
180-155476-3	MW-15	Total Recoverable	Water	6020B	776373
180-155476-4	MW-16	Total Recoverable	Water	6020B	776373
180-155476-5	MW-17	Total Recoverable	Water	6020B	776373
180-155476-6	MW-18	Total Recoverable	Water	6020B	776373
180-155476-7	MW-19	Total Recoverable	Water	6020B	776373
180-155476-8	DUP-01	Total Recoverable	Water	6020B	776373
180-155476-9	DUP-02	Total Recoverable	Water	6020B	776373
180-155476-10	EB-01	Total Recoverable	Water	6020B	776373
180-155476-11	FB-01	Total Recoverable	Water	6020B	776373
MB 680-776373/1-A	Method Blank	Total Recoverable	Water	6020B	776373
LCS 680-776373/2-A	Lab Control Sample	Total Recoverable	Water	6020B	776373

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QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-155476-1

General Chemistry

Analysis Batch: 433500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155476-1	MW-11	Total/NA	Water	SM 2540C	
180-155476-2	MW-14	Total/NA	Water	SM 2540C	
180-155476-3	MW-15	Total/NA	Water	SM 2540C	
180-155476-6	MW-18	Total/NA	Water	SM 2540C	
180-155476-8	DUP-01	Total/NA	Water	SM 2540C	
MB 180-433500/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-433500/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 433644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155476-4	MW-16	Total/NA	Water	SM 2540C	
180-155476-5	MW-17	Total/NA	Water	SM 2540C	
180-155476-7	MW-19	Total/NA	Water	SM 2540C	
180-155476-9	DUP-02	Total/NA	Water	SM 2540C	
180-155476-10	EB-01	Total/NA	Water	SM 2540C	
180-155476-11	FB-01	Total/NA	Water	SM 2540C	
MB 180-433644/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-433644/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-155476-7 DU	MW-19	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 434791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155476-1	MW-11	Total/NA	Water	Field Sampling	
180-155476-2	MW-14	Total/NA	Water	Field Sampling	
180-155476-3	MW-15	Total/NA	Water	Field Sampling	
180-155476-4	MW-16	Total/NA	Water	Field Sampling	
180-155476-5	MW-17	Total/NA	Water	Field Sampling	
180-155476-6	MW-18	Total/NA	Water	Field Sampling	
180-155476-7	MW-19	Total/NA	Water	Field Sampling	

Eurofins TestAmerica, Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone (412) 963-7058 Fax (412) 963-2468

Chain of Custody Record



rofin's Environment Testing America

Client Information	Sampler: <i>Eric Hoyer</i>	Lab PM: Brown, Shali
Client Contact:	Phone: <i>850-336-0192</i>	E-Mail: shali.brown@eurofinset.co
SCS Contacts	180-155476 Chain of Custody	

Company: SCS	Analysis Requested	
Address: 3535 Colonnade Pkwy BinS 530 EC	Due Date Requested:	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlora S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
City: Birmingham	TAT Requested (days):	
State, Zip: Alabama		
Phone: 205.992.6283	PO #: SCS10382606	
Email: <i>scs@scs.com</i>	WO #:	
Project Name: Plant Daniel NAMU CCR	Project #: 18020047	
Site:	SSOW#:	Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Boron and Calcium (App III)	Chloride Fluoride Sulfate	Total Dissolved Solids	Total Number of containers	Special Instructions/Note:
MW-11	4-19-23	1550	G	water	No		X	X	X	3	
MW-14	4-19-23	1254	G	water	No		X	X	X	3	
MW-15	4-19-23	0932	G	water	No		X	X	X	3	
MW-16	4-20-23	1157	G	water	No		X	X	X	3	
MW-17	4-20-23	0740	G	water	No		X	X	X	3	
MW-18	4-19-23	1725	G	water	No		X	X	X	3	
MW-19	4-20-23	0918	G	water	No		X	X	X	3	
DUP-01	4-19-23	1450	G	water	No		X	X	X	3	
DUP-02	4-20-23	1057	G	water	No		X	X	X	3	
EB-01	4-20-23	0851	G	water	No		X	X	X	3	
FB-01	4-20-23	0841	G	water	No		X	X	X	3	

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months
--	---

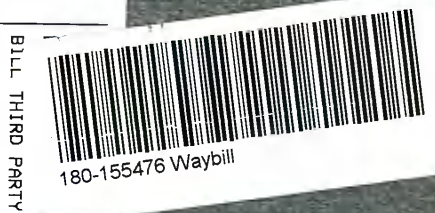
Deliverable Requested: I, II, III, IV, Other (specify) *level II Reports and Associated EPPs*

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>[Signature]</i>	Date/Time: <i>4-20-23 1423</i>	Company: <i>MDX EW.</i>	Received by: <i>[Signature]</i>
Relinquished by:	Date/Time:	Company:	Received by:
Relinquished by:	Date/Time:	Company:	Received by:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
--	-------------------	---

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ORIGIN ID:MOBA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
SEE CHECKS BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US



180-155476 Waybill

13
2401

BILL THIRD PARTY

TO EUROFINIS TEST AMERICA

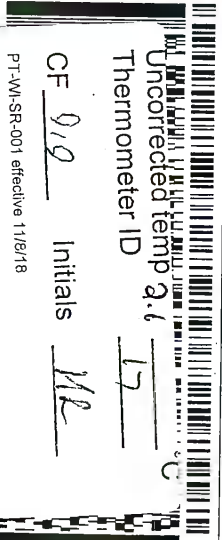
301 ALPHA DR RIDG PARK

PITTSBURGH PA 15238

(412) 983-7058
NO: P.O.I.

REF:1

DEPT:1



Uncorrected temp 2.6
Thermometer ID 17

CF 010 Initials MR

PT-WI-SR-001 effective 11/8/18



1 of 2
TRK# 3972 9283 9021
0201
MASTER

FRI - 21 APR 10:30A
PRIORITY OVERNIGHT

XN AGCA

15238
PA-US
PIT



Part # 156297-435 RRDB2 EXP 03/24

Art 10504082020222

Chain of Custody Record

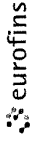


Client Information (Sub Contract Lab)		Carrier Tracking No(s):	COC No: 180-485778 1	
Client Contact:	Shipping/Receiving	Lab P.M.:	Brown Shall	
Company:	Eurofins Environment Testing Southeast	State of Origin:	Mississippi	
Address:	5102 LaRoche Avenue	Accreditations Required (See note):	180-155476-1	
City:	Savannah	Analysis Requested		
State, Zip:	GA, 31404	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Phone:	912-354-7858(Tel) 912-352-0165(Fax)	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA Other		
Email:		Total Number of Containers		
Project Name:	Plant Daniel NAMU CCR	6920B/3005A App III Boron and Calcium		
Site:		Perform MS/MSD (Yes or No)		
		Field Filtered Sample (Yes or No)		
		Preservation Code:		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, G=grab)
MW-11 (180-155476-1)	4/19/23	15 50 Central		Water
MW-14 (180-155476-2)	4/19/23	12 54 Central		Water
MW-15 (180-155476-3)	4/19/23	09 32 Central		Water
MW-16 (180-155476-4)	4/20/23	11 57 Central		Water
MW-17 (180-155476-5)	4/20/23	07 40 Central		Water
MW-18 (180-155476-6)	4/19/23	17 25 Central		Water
MW-19 (180-155476-7)	4/20/23	09 18 Central		Water
DUP-01 (180-155476-8)	4/19/23	14 50 Central		Water
DUP-02 (180-155476-9)	4/20/23	10 57 Central		Water
Note: Since laboratory accreditations are subject to change Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above, for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested I, II, III, IV, Other (specify)				
Empty Kit Relinquished by				
Relinquished by				
Relinquished by				
Relinquished by				
Custody Seals Intact: Custody Seal No				
Δ Yes Δ No				



Eurofins Pittsburgh
 301 Alpha Drive RIDC Park
 Pittsburgh PA 15238
 Phone 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Lab PM Brown, Shail	Carrier Tracking No(s) 180-485778 2
Shipping/Receiving Company: Eurofins Environment Testing Southeast		E-Mail: Shail Brown@eurofins.com	State of Origin: Mississippi
Address: 5102 LaRoche Avenue City: Savannah State Zip: GA, 31404 Phone: 912-354-7858(Tel) 912-352-0165(Fax) E-mail:		Accreditations Required (See note):	Job #: 180-155476-1
Due Date Requested: 5/4/2023 TAT Requested (days):		Analysis Requested	
Project #: 18020047 SSOW#:			
Sample Identification - Client ID (Lab ID)		Total Number of Containers X 1 X 1	
EB-01 (180-155476-10)			
FB-01 (180-155476-11)			
Sample Date: 4/20/23 Sample Time: 08 51 Central 08 41 Central Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=organic, A=air) Preservation Code: Water Water Perform MS/MSD (Yes or No) X Field Filtered Sample (Yes or No) X 6020B/3005A App III Boron and Calcium		Special Instructions/Note:	
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.			
Possible Hazard Identification Unconfirmed Deliverable Requested I II, III IV Other (specify)			
Empty Kit Relinquished by		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements	
Relinquished by		Method of Shipment	
Relinquished by		Received by	
Relinquished by		Received by	
Relinquished by		Received by	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 2.14/30	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-155476-1

Login Number: 155476

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-155476-1

Login Number: 155476

List Number: 2

Creator: Givens, Keshia

List Source: Eurofins Savannah

List Creation: 04/29/23 11:57 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 6/8/2023 2:22:34 PM Revision 1

JOB DESCRIPTION

Plant Daniel NAMU

JOB NUMBER

180-157165-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Authorized for release by
Shali Brown, Project Manager II
Shali.Brown@et.eurofinsus.com
(615)301-5031

Generated
6/8/2023 2:22:34 PM
Revision 1



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Case Narrative

Client: Southern Company
Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

Job ID: 180-157165-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-157165-1

060823 Revised report to add field pH at client request. This report replaces the report previously issued on 060523.

Receipt

The samples were received on 5/26/2023 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 6020B: The laboratory control sample (LCS) for preparation batch 680-781343 and analytical batch 680-781604 recovered outside control limits for the following analyte: Boron. The analyte were biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-23
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-23
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-23
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-23
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-23 *
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23 *
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	06-21-24
Utah	NELAP	PA001462019-8	05-31-23
Virginia	NELAP	10043	09-14-23
West Virginia DEP	State	142	03-31-24
Wisconsin	State	998027800	08-31-23

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-23
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-23
Florida	NELAP	E87052	06-30-23
Georgia	State	E87052	06-30-23
Georgia (DW)	State	803	06-30-23
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-23
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-23
Iowa	State	353	06-30-23
Kentucky (UST)	State	NA	06-30-23
Louisiana	NELAP	30690	06-30-23
Louisiana (All)	NELAP	30690	06-30-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-23
Michigan	State	9925	06-30-23
Mississippi	State	<cert No.>	06-30-23
Nebraska	State	NE-OS-7-04	06-30-23
New Jersey	NELAP	GA769	06-30-23
New Mexico	State	GA00006	06-30-23
North Carolina (DW)	State	13701	07-31-23
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-23
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-23
Tennessee	State	TN02961	06-30-23
Texas	NELAP	T1047004185-19-14	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-23
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-23
Wyoming	State	8TMS-L	06-30-23

Sample Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
180-157165-1	MW-19	Water	05/24/23 13:12	05/26/23 09:35
180-157165-2	DUP-01	Water	05/24/23 12:12	05/26/23 09:35

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Method Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

Method	Method Description	Protocol	Laboratory
EPA 9056A	Anions, Ion Chromatography	SW846	EET PIT
6020B	Metals (ICP/MS)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

Client Sample ID: MW-19
Date Collected: 05/24/23 13:12
Date Received: 05/26/23 09:35

Lab Sample ID: 180-157165-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A Instrument ID: CHIC2100A		1			436477	05/30/23 19:37	SNL	EET PIT
Total/NA	Analysis	EPA 9056A Instrument ID: CHICS2100B		1	1 mL	1 mL	436380	05/27/23 18:26	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	125 mL	781343	06/01/23 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSD		1			781604	06/01/23 19:12	BWR	EET SAV
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	436529	05/30/23 20:01	LWM	EET PIT
Total/NA	Analysis	Field Sampling Instrument ID: NOEQUIP		1			437404	05/24/23 14:12	FDS	EET PIT

Client Sample ID: DUP-01
Date Collected: 05/24/23 12:12
Date Received: 05/26/23 09:35

Lab Sample ID: 180-157165-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A Instrument ID: CHIC2100A		1			436477	05/30/23 19:51	SNL	EET PIT
Total/NA	Analysis	EPA 9056A Instrument ID: CHICS2100B		1	1 mL	1 mL	436380	05/27/23 18:41	SNL	EET PIT
Total Recoverable	Prep	3005A			25 mL	125 mL	781343	06/01/23 05:47	RR	EET SAV
Total Recoverable	Analysis	6020B Instrument ID: ICPMSD		1			781604	06/01/23 19:16	BWR	EET SAV
Total/NA	Analysis	SM 2540C Instrument ID: NOEQUIP		1	100 mL	100 mL	436529	05/30/23 20:01	LWM	EET PIT

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
 EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Analyst References:

Lab: EET PIT
 Batch Type: Analysis
 FDS = Sampler Field
 LWM = Leslie McIntire
 SNL = Sean Lordo
 Lab: EET SAV
 Batch Type: Prep
 RR = Robert Rancourt
 Batch Type: Analysis
 BWR = Bryn Robertson

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

Client Sample ID: MW-19
Date Collected: 05/24/23 13:12
Date Received: 05/26/23 09:35

Lab Sample ID: 180-157165-1
Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.84		1.00	0.713	mg/L			05/27/23 18:26	1
Fluoride	0.0849	J	0.100	0.0260	mg/L			05/30/23 19:37	1
Sulfate	2.62		1.00	0.756	mg/L			05/27/23 18:26	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220	*+	0.0800	0.0220	mg/L		06/01/23 05:47	06/01/23 19:12	1
Calcium	1.70		0.500	0.140	mg/L		06/01/23 05:47	06/01/23 19:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	32.0		10.0	10.0	mg/L			05/30/23 20:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.15				SU			05/24/23 14:12	1

Client Sample ID: DUP-01
Date Collected: 05/24/23 12:12
Date Received: 05/26/23 09:35

Lab Sample ID: 180-157165-2
Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.42		1.00	0.713	mg/L			05/27/23 18:41	1
Fluoride	0.0443	J	0.100	0.0260	mg/L			05/30/23 19:51	1
Sulfate	2.48		1.00	0.756	mg/L			05/27/23 18:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220	*+	0.0800	0.0220	mg/L		06/01/23 05:47	06/01/23 19:16	1
Calcium	1.73		0.500	0.140	mg/L		06/01/23 05:47	06/01/23 19:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	38.0		10.0	10.0	mg/L			05/30/23 20:01	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

Method: EPA 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 180-436380/6
Matrix: Water
Analysis Batch: 436380

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.713		1.00	0.713	mg/L			05/27/23 11:55	1
Fluoride	<0.0260		0.100	0.0260	mg/L			05/27/23 11:55	1
Sulfate	<0.756		1.00	0.756	mg/L			05/27/23 11:55	1

Lab Sample ID: LCS 180-436380/7
Matrix: Water
Analysis Batch: 436380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.20		mg/L		100	80 - 120
Fluoride	2.50	2.609		mg/L		104	80 - 120
Sulfate	50.0	50.62		mg/L		101	80 - 120

Lab Sample ID: MB 180-436477/6
Matrix: Water
Analysis Batch: 436477

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.713		1.00	0.713	mg/L			05/30/23 13:18	1
Fluoride	<0.0260		0.100	0.0260	mg/L			05/30/23 13:18	1
Sulfate	<0.756		1.00	0.756	mg/L			05/30/23 13:18	1

Lab Sample ID: LCS 180-436477/7
Matrix: Water
Analysis Batch: 436477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.91		mg/L		102	80 - 120
Fluoride	2.50	2.718		mg/L		109	80 - 120
Sulfate	50.0	50.85		mg/L		102	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-781343/1-A
Matrix: Water
Analysis Batch: 781604

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.0800	0.0220	mg/L		06/01/23 05:47	06/01/23 18:49	1
Calcium	<0.140		0.500	0.140	mg/L		06/01/23 05:47	06/01/23 18:49	1

Lab Sample ID: LCS 680-781343/2-A
Matrix: Water
Analysis Batch: 781604

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.200	0.2427	*+	mg/L		121	80 - 120
Calcium	5.00	5.379		mg/L		108	80 - 120

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-436529/1
Matrix: Water
Analysis Batch: 436529

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10.0		10.0	10.0	mg/L			05/30/23 20:01	1

Lab Sample ID: LCS 180-436529/2
Matrix: Water
Analysis Batch: 436529

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	580	582.0		mg/L		100	85 - 115

- 1
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- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU

Job ID: 180-157165-1

HPLC/IC

Analysis Batch: 436380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-157165-1	MW-19	Total/NA	Water	EPA 9056A	
180-157165-2	DUP-01	Total/NA	Water	EPA 9056A	
MB 180-436380/6	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-436380/7	Lab Control Sample	Total/NA	Water	EPA 9056A	

Analysis Batch: 436477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-157165-1	MW-19	Total/NA	Water	EPA 9056A	
180-157165-2	DUP-01	Total/NA	Water	EPA 9056A	
MB 180-436477/6	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-436477/7	Lab Control Sample	Total/NA	Water	EPA 9056A	

Metals

Prep Batch: 781343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-157165-1	MW-19	Total Recoverable	Water	3005A	
180-157165-2	DUP-01	Total Recoverable	Water	3005A	
MB 680-781343/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-781343/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-157165-1	MW-19	Total Recoverable	Water	6020B	781343
180-157165-2	DUP-01	Total Recoverable	Water	6020B	781343
MB 680-781343/1-A	Method Blank	Total Recoverable	Water	6020B	781343
LCS 680-781343/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781343

General Chemistry

Analysis Batch: 436529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-157165-1	MW-19	Total/NA	Water	SM 2540C	
180-157165-2	DUP-01	Total/NA	Water	SM 2540C	
MB 180-436529/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-436529/2	Lab Control Sample	Total/NA	Water	SM 2540C	

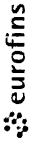
Field Service / Mobile Lab

Analysis Batch: 437404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-157165-1	MW-19	Total/NA	Water	Field Sampling	

Eurofins Pittsburgh

Chain of Custody Record



Eurofins Inert Testing
Americ

Client Information		Sampler		Lab PM		Carrier Tracking No(s)		COC No															
SCS Contacts / Robert Singleton Company SCS		Name: Kirk Hege Phone: 850-336-0192		Name: Brown, Shali E-Mail: shali.brown@eurofinset.com																			
Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: Alabama Phone: 205 992.6283 Email: /Ad Singleton@SouthernCo.com Project Name: Site: 		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSOW#: 		Analysis Requested: <table border="1" style="width: 100%; text-align: center; font-size: small;"> <tr> <td style="width: 12.5%;">Boron 60208</td> <td style="width: 12.5%;">Calcium 60208</td> <td style="width: 12.5%;">Chloride 90564</td> <td style="width: 12.5%;">Fluoride 90564</td> <td style="width: 12.5%;">Sulfate 90564</td> <td style="width: 12.5%;">TDS 5M2540C</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>						Boron 60208	Calcium 60208	Chloride 90564	Fluoride 90564	Sulfate 90564	TDS 5M2540C	X	X	X	X	X	X	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Boron 60208	Calcium 60208	Chloride 90564	Fluoride 90564	Sulfate 90564	TDS 5M2540C																		
X	X	X	X	X	X																		
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Total Number of Containers	Special Instructions/Note:															
MW-19		S-24-23	1312	G	water	<input checked="" type="checkbox"/>	7																
DUF-01		S-24-23	1312	G	water	<input checked="" type="checkbox"/>	8																
<div style="display: flex; align-items: center; justify-content: center;"> <div style="margin-left: 20px;"> 180-157165 Chain of Custody </div> </div>																							
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)																							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																							
Special Instructions/QC Requirements: Method of Shipment: _____ Time: _____ Date: _____																							
Relinquished by: [Signature]		Date/Time: S-24-23 1351		Company: ROH-BM		Received by: [Signature]		Date/Time: S-25-23 0950															
Relinquished by: _____		Date/Time: _____		Company: _____		Received by: _____		Date/Time: _____															
Relinquished by: _____		Date/Time: _____		Company: _____		Received by: _____		Date/Time: _____															
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No: _____		Cooler Temperature(s) °C and Other Remarks: _____																			



ORIGIN ID:MOBA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALFA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 24MAY23
ACTWGT: 33.80 LB
CAD: 6994562/SSFE2420
DIMS: 17x10x15 IN

BILL THIRD PARTY

Part # 150297-1534153555555555 04/24

TO

TESTAMERICA PITTSBURGH LAB
301 ALFA DR

PITTSBURGH PA 15238

(850) 336-0192

REF:

INU:

DEPT:



Uncorrected temp

Thermometer ID

2617

CF

0

Initials

JD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



1010504032023237

2 of 2

MPS# 3987 4338 7569

0263

Mstr# 3987 4338 7558

0201

THU - 25 MAY 10:30A

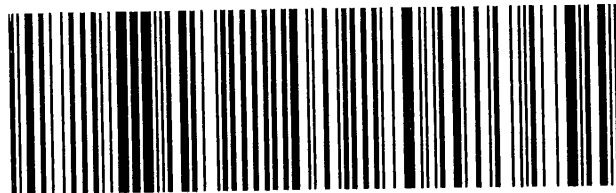
PRIORITY OVERNIGHT

XN AGCA

15238

PA-US

PIT



180-157165 Waybill

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab FM: Brown Shall	Carrier Tracking No(s)	COC No: 180-487906 1						
Client Contact: Shipping/Receiving		E-Mail: Shali Brown@et.eurofinsus.com	State of Origin: Mississippi	Page: Page 1 of 1						
Company: Eurofins Environment Testing Southeast		Accreditations Required (See note)								
Address: 5102 LaRoche Avenue, Savannah GA, 31404		Due Date Requested: 6/12/2023								
Phone: 912-354-7658(Tel) 912-352-0165(Fax)		TAT Requested (days):								
Email:		PO #:								
Project Name: Plant Daniel NAMU		WO #:								
Site:		Project #: 18020047								
		SSOW#:								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=soil, O=water, A=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3005A App III Boron and Calcium	Total Number of Containers	Special Instructions/Note:
MW-19 (180-157165-1)	5/24/23	13.12 Central		Water		X			2	
DUP-01 (180-157165-2)	5/24/23	12.12 Central		Water		X			2	
<p>Note: Since laboratory accreditations are subject to change Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/lists/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested I, II, III, IV Other (specify) _____ Primary Deliverable Rank: 2										
Special Instructions/QC Requirements: _____										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Method of Shipment: _____										
Relinquished by: _____		Date: 5/30/23 17:00		Company: EQTIME		Requested by: _____		Date/Time: 05-31-23		Company: _____
Relinquished by: _____		Date/Time: _____		Company: _____		Received by: _____		Date/Time: 10-30		Company: _____
Relinquished by: _____		Date/Time: _____		Company: _____		Received by: _____		Date/Time: _____		Company: _____
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks: 20-26						

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-157165-1

Login Number: 157165

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-157165-1

Login Number: 157165

List Number: 2

Creator: Harley, Tynisha

List Source: Eurofins Savannah

List Creation: 05/31/23 12:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Low-Flow Test Report:

Test Date / Time: 4/19/2023 3:05:04 PM

Project: Daniel NAMU CCR MW-11

Operator Name: Rick Hagendorfer

Location Name: Daniel NAMU CCR MW-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 28 ft Total Depth: 33 ft Initial Depth to Water: 12.65 ft	Pump Type: PP Tubing Type: PE Pump Intake From TOC: 30.5 ft Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 2.71 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Air valve on the well head is broken so I connected a Peristaltic pump to the water line and pumped water that way.

Weather Conditions:

Sunny 78

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/19/2023 3:05 PM	00:00	4.74 pH	25.05 °C	68.38 µS/cm	6.79 mg/L		117.9 mV	12.65 ft	400.00 ml/min
4/19/2023 3:10 PM	05:00	4.78 pH	21.86 °C	62.18 µS/cm	2.98 mg/L	7.49 NTU	102.0 mV	13.93 ft	400.00 ml/min
4/19/2023 3:15 PM	10:00	4.68 pH	21.61 °C	62.81 µS/cm	1.45 mg/L	8.85 NTU	98.1 mV	14.88 ft	400.00 ml/min
4/19/2023 3:20 PM	15:00	4.64 pH	21.55 °C	62.66 µS/cm	0.73 mg/L	6.46 NTU	96.7 mV	15.15 ft	400.00 ml/min
4/19/2023 3:25 PM	20:00	4.62 pH	21.51 °C	62.73 µS/cm	0.49 mg/L	4.76 NTU	96.0 mV	15.28 ft	400.00 ml/min
4/19/2023 3:30 PM	25:00	4.63 pH	21.50 °C	62.56 µS/cm	0.38 mg/L	3.46 NTU	93.4 mV	15.34 ft	400.00 ml/min
4/19/2023 3:35 PM	30:00	4.62 pH	21.45 °C	62.38 µS/cm	0.34 mg/L	2.63 NTU	95.3 mV	15.35 ft	400.00 ml/min
4/19/2023 3:40 PM	35:00	4.61 pH	21.46 °C	62.23 µS/cm	0.24 mg/L	2.09 NTU	93.1 mV	15.36 ft	400.00 ml/min
4/19/2023 3:45 PM	40:00	4.61 pH	21.42 °C	62.19 µS/cm	0.21 mg/L	1.82 NTU	95.7 mV	15.36 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-11	Sample time 1550

Dup-01

Fake sample time 1450

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/19/2023 9:50:31 AM

Project: Daniel NAMU CCR MW-14

Operator Name: Rick Hagendorfer

Location Name: Daniel NAMU CCR MW-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 35.7 ft Total Depth: 40.7 ft Initial Depth to Water: 12.03 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 38.2 ft Estimated Total Volume Pumped: 72000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
---	---	--

Test Notes:

Weather Conditions:

P/C 66

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/19/2023 9:50 AM	00:00	4.85 pH	20.25 °C	59.08 µS/cm	4.18 mg/L		135.9 mV	12.03 ft	400.00 ml/min
4/19/2023 9:55 AM	05:00	4.93 pH	20.42 °C	60.87 µS/cm	3.41 mg/L	44.00 NTU	130.1 mV	12.11 ft	400.00 ml/min
4/19/2023 10:00 AM	10:00	4.94 pH	20.48 °C	60.04 µS/cm	3.45 mg/L	39.70 NTU	127.2 mV	12.11 ft	400.00 ml/min
4/19/2023 10:05 AM	15:00	4.92 pH	20.53 °C	59.28 µS/cm	3.51 mg/L	29.50 NTU	140.0 mV	12.11 ft	400.00 ml/min
4/19/2023 10:10 AM	20:00	4.90 pH	20.55 °C	58.92 µS/cm	3.53 mg/L	24.80 NTU	125.4 mV	12.11 ft	400.00 ml/min
4/19/2023 10:15 AM	25:00	4.89 pH	20.61 °C	58.53 µS/cm	3.55 mg/L	19.30 NTU	124.1 mV	12.11 ft	400.00 ml/min
4/19/2023 10:20 AM	30:00	4.88 pH	20.61 °C	58.36 µS/cm	3.56 mg/L	19.10 NTU	136.9 mV	12.11 ft	400.00 ml/min
4/19/2023 10:25 AM	35:00	4.86 pH	20.64 °C	57.96 µS/cm	3.58 mg/L	16.80 NTU	123.6 mV	12.11 ft	400.00 ml/min
4/19/2023 10:30 AM	40:00	4.86 pH	20.66 °C	57.65 µS/cm	3.59 mg/L	15.10 NTU	122.9 mV	12.11 ft	400.00 ml/min
4/19/2023 10:35 AM	45:00	4.85 pH	20.66 °C	57.49 µS/cm	3.61 mg/L	14.21 NTU	135.1 mV	12.11 ft	400.00 ml/min
4/19/2023 10:40 AM	50:00	4.84 pH	20.66 °C	57.31 µS/cm	3.61 mg/L	13.10 NTU	122.9 mV	12.11 ft	400.00 ml/min
4/19/2023 10:45 AM	55:00	4.84 pH	20.69 °C	57.12 µS/cm	3.62 mg/L	11.40 NTU	122.1 mV	12.11 ft	400.00 ml/min
4/19/2023 10:50 AM	01:00:00	4.83 pH	20.69 °C	56.98 µS/cm	3.63 mg/L	11.30 NTU	121.8 mV	12.11 ft	400.00 ml/min

4/19/2023 10:55 AM	01:05:00	4.83 pH	20.68 °C	57.12 µS/cm	3.63 mg/L	10.50 NTU	133.7 mV	12.11 ft	400.00 ml/min
4/19/2023 11:00 AM	01:10:00	4.83 pH	20.69 °C	57.02 µS/cm	3.63 mg/L	10.21 NTU	121.5 mV	12.11 ft	400.00 ml/min
4/19/2023 11:05 AM	01:15:00	4.83 pH	20.67 °C	56.85 µS/cm	3.65 mg/L	9.66 NTU	133.3 mV	12.11 ft	400.00 ml/min
4/19/2023 11:10 AM	01:20:00	4.82 pH	20.66 °C	56.85 µS/cm	3.65 mg/L	9.35 NTU	121.5 mV	12.11 ft	400.00 ml/min
4/19/2023 11:15 AM	01:25:00	4.82 pH	20.70 °C	56.68 µS/cm	3.65 mg/L	8.97 NTU	121.2 mV	12.11 ft	400.00 ml/min
4/19/2023 11:20 AM	01:30:00	4.82 pH	20.70 °C	56.62 µS/cm	3.66 mg/L	8.61 NTU	120.8 mV	12.11 ft	400.00 ml/min
4/19/2023 11:25 AM	01:35:00	4.81 pH	20.75 °C	56.53 µS/cm	3.66 mg/L	8.18 NTU	120.7 mV	12.11 ft	400.00 ml/min
4/19/2023 11:30 AM	01:40:00	4.81 pH	20.84 °C	56.46 µS/cm	3.66 mg/L	7.84 NTU	120.4 mV	12.11 ft	400.00 ml/min
4/19/2023 11:35 AM	01:45:00	4.81 pH	20.88 °C	56.30 µS/cm	3.66 mg/L	7.31 NTU	131.7 mV	12.11 ft	400.00 ml/min
4/19/2023 11:40 AM	01:50:00	4.81 pH	21.03 °C	56.32 µS/cm	3.67 mg/L	7.26 NTU	120.4 mV	12.11 ft	400.00 ml/min
4/19/2023 11:45 AM	01:55:00	4.81 pH	21.15 °C	56.44 µS/cm	3.66 mg/L	7.54 NTU	131.4 mV	12.11 ft	400.00 ml/min
4/19/2023 11:50 AM	02:00:00	4.80 pH	21.24 °C	56.19 µS/cm	3.67 mg/L	7.15 NTU	120.3 mV	12.11 ft	400.00 ml/min
4/19/2023 11:55 AM	02:05:00	4.80 pH	21.37 °C	56.21 µS/cm	3.66 mg/L	6.81 NTU	131.2 mV	12.11 ft	400.00 ml/min
4/19/2023 12:00 PM	02:10:00	4.80 pH	21.58 °C	56.16 µS/cm	3.66 mg/L	6.41 NTU	120.0 mV	12.11 ft	400.00 ml/min
4/19/2023 12:05 PM	02:15:00	4.80 pH	21.50 °C	56.25 µS/cm	3.66 mg/L	5.97 NTU	119.8 mV	12.11 ft	400.00 ml/min
4/19/2023 12:10 PM	02:20:00	4.80 pH	21.64 °C	56.11 µS/cm	3.65 mg/L	5.54 NTU	130.6 mV	12.11 ft	400.00 ml/min
4/19/2023 12:15 PM	02:25:00	4.80 pH	21.57 °C	56.23 µS/cm	3.66 mg/L	5.49 NTU	119.7 mV	12.11 ft	400.00 ml/min
4/19/2023 12:20 PM	02:30:00	4.80 pH	21.75 °C	56.17 µS/cm	3.65 mg/L	5.52 NTU	119.1 mV	12.11 ft	400.00 ml/min
4/19/2023 12:25 PM	02:35:00	4.80 pH	21.73 °C	56.16 µS/cm	3.67 mg/L	5.53 NTU	118.9 mV	12.11 ft	400.00 ml/min
4/19/2023 12:30 PM	02:40:00	4.80 pH	21.77 °C	56.14 µS/cm	3.66 mg/L	5.23 NTU	118.7 mV	12.11 ft	400.00 ml/min
4/19/2023 12:35 PM	02:45:00	4.80 pH	21.99 °C	56.07 µS/cm	3.65 mg/L	5.01 NTU	118.3 mV	12.11 ft	400.00 ml/min
4/19/2023 12:40 PM	02:50:00	4.80 pH	21.94 °C	56.25 µS/cm	3.67 mg/L	4.80 NTU	128.9 mV	12.11 ft	400.00 ml/min
4/19/2023 12:45 PM	02:55:00	4.80 pH	22.13 °C	56.09 µS/cm	3.65 mg/L	4.68 NTU	129.6 mV	12.11 ft	400.00 ml/min
4/19/2023 12:50 PM	03:00:00	4.80 pH	22.08 °C	56.14 µS/cm	3.67 mg/L	4.66 NTU	118.9 mV	12.11 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-14	Sample time 1254

Low-Flow Test Report:

Test Date / Time: 4/19/2023 8:37:33 AM

Project: Daniel NAMU CCR MW-15

Operator Name: Rick Hagendorfer

Location Name: Daniel NAMU CCR MW-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 34.9 ft Total Depth: 39.5 ft Initial Depth to Water: 11.28 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 63

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/19/2023 8:37 AM	00:00	4.84 pH	20.26 °C	34.86 µS/cm	4.93 mg/L		108.8 mV	11.28 ft	400.00 ml/min
4/19/2023 8:42 AM	05:00	4.70 pH	20.62 °C	34.39 µS/cm	4.64 mg/L	9.15 NTU	121.1 mV	11.38 ft	400.00 ml/min
4/19/2023 8:47 AM	10:00	4.69 pH	20.75 °C	34.37 µS/cm	4.62 mg/L	7.93 NTU	116.2 mV	11.38 ft	400.00 ml/min
4/19/2023 8:52 AM	15:00	4.68 pH	20.79 °C	34.34 µS/cm	4.61 mg/L	7.45 NTU	128.6 mV	11.38 ft	400.00 ml/min
4/19/2023 8:57 AM	20:00	4.69 pH	20.75 °C	34.27 µS/cm	4.62 mg/L	6.28 NTU	119.7 mV	11.38 ft	400.00 ml/min
4/19/2023 9:02 AM	25:00	4.68 pH	20.79 °C	34.24 µS/cm	4.61 mg/L	5.84 NTU	121.4 mV	11.38 ft	400.00 ml/min
4/19/2023 9:07 AM	30:00	4.69 pH	20.80 °C	34.22 µS/cm	4.61 mg/L	4.70 NTU	134.2 mV	11.38 ft	400.00 ml/min
4/19/2023 9:12 AM	35:00	4.69 pH	20.80 °C	34.12 µS/cm	4.62 mg/L	4.32 NTU	123.2 mV	11.38 ft	400.00 ml/min
4/19/2023 9:17 AM	40:00	4.70 pH	20.82 °C	34.09 µS/cm	4.62 mg/L	3.97 NTU	136.4 mV	11.38 ft	400.00 ml/min
4/19/2023 9:22 AM	45:00	4.70 pH	20.83 °C	34.07 µS/cm	4.62 mg/L	3.69 NTU	137.4 mV	11.38 ft	400.00 ml/min
4/19/2023 9:27 AM	50:00	4.70 pH	20.84 °C	34.05 µS/cm	4.62 mg/L	3.50 NTU	124.7 mV	11.38 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-15	Sample time 0932

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 4/20/2023 11:33:56 AM

Project: Daniel NAMU MW-16

Operator Name: Rick Hagendorfer

Location Name: Daniel NAMU CCR MW-16 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 23.3 ft Total Depth: 28.3 ft Initial Depth to Water: 8.24 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 25.8 ft Estimated Total Volume Pumped: 8000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 76

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/20/2023 11:33 AM	00:00	4.49 pH	23.42 °C	52.76 µS/cm	0.50 mg/L		138.0 mV	8.24 ft	400.00 ml/min
4/20/2023 11:38 AM	05:00	4.49 pH	23.30 °C	53.18 µS/cm	0.25 mg/L	4.61 NTU	141.1 mV	8.24 ft	400.00 ml/min
4/20/2023 11:43 AM	10:00	4.49 pH	22.89 °C	53.95 µS/cm	0.20 mg/L	2.22 NTU	148.3 mV	8.24 ft	400.00 ml/min
4/20/2023 11:48 AM	15:00	4.49 pH	22.84 °C	54.03 µS/cm	0.19 mg/L	1.02 NTU	144.7 mV	8.24 ft	400.00 ml/min
4/20/2023 11:53 AM	20:00	4.50 pH	22.90 °C	53.90 µS/cm	0.18 mg/L	0.81 NTU	145.4 mV	8.24 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-16	Sample time 1157
Dup-02	Fake sample time 1057

Low-Flow Test Report:

Test Date / Time: 4/20/2023 7:02:55 AM

Project: Daniel NAMU CCR MW-17

Operator Name: Rick Hagendorfer

Location Name: Daniel NAMU CCR MW-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 m Top of Screen: 23.5 m Total Depth: 28.5 m Initial Depth to Water: 6.47 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 14000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.07 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Foggy 61

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/20/2023 7:02 AM	00:00	4.74 pH	18.38 °C	40.89 µS/cm	0.82 mg/L		119.2 mV	6.47 ft	400.00 ml/min
4/20/2023 7:07 AM	05:00	4.76 pH	19.14 °C	40.46 µS/cm	0.69 mg/L	0.98 NTU	116.4 mV	6.54 ft	400.00 ml/min
4/20/2023 7:12 AM	10:00	4.78 pH	19.47 °C	40.44 µS/cm	0.37 mg/L	0.78 NTU	116.0 mV	6.54 ft	400.00 ml/min
4/20/2023 7:17 AM	15:00	4.79 pH	19.53 °C	40.33 µS/cm	0.33 mg/L	0.75 NTU	112.8 mV	6.54 ft	400.00 ml/min
4/20/2023 7:22 AM	20:00	4.78 pH	19.74 °C	40.39 µS/cm	0.32 mg/L	0.78 NTU	114.4 mV	6.54 ft	400.00 ml/min
4/20/2023 7:27 AM	25:00	4.79 pH	20.33 °C	40.35 µS/cm	0.26 mg/L	0.69 NTU	107.4 mV	6.54 ft	400.00 ml/min
4/20/2023 7:32 AM	30:00	4.79 pH	20.35 °C	40.24 µS/cm	0.23 mg/L	0.71 NTU	107.3 mV	6.54 ft	400.00 ml/min
4/20/2023 7:37 AM	35:00	4.79 pH	20.35 °C	40.34 µS/cm	0.22 mg/L	0.69 NTU	107.2 mV	6.54 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-17	Sample time 0740

Low-Flow Test Report:

Test Date / Time: 4/19/2023 4:56:14 PM

Project: Daniel NAMU CCR MW-18

Operator Name: Rick Hagendorfer

Location Name: Daniel NAMU CCR MW-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 39.4 ft Total Depth: 44.4 ft Initial Depth to Water: 16.27 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 41.9 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny 77

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/19/2023 4:56 PM	00:00	4.44 pH	26.13 °C	42.71 µS/cm	7.16 mg/L		113.6 mV	16.27 ft	400.00 ml/min
4/19/2023 5:01 PM	05:00	4.60 pH	22.01 °C	43.04 µS/cm	0.92 mg/L	0.41 NTU	110.9 mV	16.35 ft	400.00 ml/min
4/19/2023 5:06 PM	10:00	4.64 pH	21.78 °C	43.26 µS/cm	0.33 mg/L	0.45 NTU	110.7 mV	16.35 ft	400.00 ml/min
4/19/2023 5:11 PM	15:00	4.65 pH	21.81 °C	43.35 µS/cm	0.26 mg/L	0.45 NTU	106.6 mV	16.35 ft	400.00 ml/min
4/19/2023 5:16 PM	20:00	4.65 pH	21.73 °C	43.25 µS/cm	0.25 mg/L	0.38 NTU	105.5 mV	16.35 ft	400.00 ml/min
4/19/2023 5:21 PM	25:00	4.65 pH	21.73 °C	43.22 µS/cm	0.24 mg/L	0.42 NTU	106.3 mV	16.35 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-18	Sample time 1725

Low-Flow Test Report:

Test Date / Time: 4/20/2023 8:04:06 AM

Project: Daniel NAMU CCR MW-19

Operator Name: Rick Hagendorfer

Location Name: Daniel NAMU CCR MW-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.4 ft Total Depth: 32.4 ft Initial Depth to Water: 16.99 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 27.4 ft Estimated Total Volume Pumped: 28000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.12 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Fog 63

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
4/20/2023 8:04 AM	00:00	6.23 pH	20.57 °C	223.34 µS/cm	6.10 mg/L		93.5 mV	16.99 ft	400.00 ml/min
4/20/2023 8:09 AM	05:00	6.61 pH	20.98 °C	226.40 µS/cm	3.28 mg/L	39.00 NTU	90.6 mV	17.11 ft	400.00 ml/min
4/20/2023 8:14 AM	10:00	6.49 pH	21.06 °C	168.83 µS/cm	1.98 mg/L	29.60 NTU	91.5 mV	17.11 ft	400.00 ml/min
4/20/2023 8:19 AM	15:00	6.30 pH	21.07 °C	132.78 µS/cm	1.31 mg/L	24.40 NTU	95.7 mV	17.11 ft	400.00 ml/min
4/20/2023 8:24 AM	20:00	6.18 pH	21.11 °C	115.53 µS/cm	1.04 mg/L	19.70 NTU	95.7 mV	17.11 ft	400.00 ml/min
4/20/2023 8:29 AM	25:00	6.07 pH	21.19 °C	103.72 µS/cm	0.83 mg/L	14.80 NTU	98.6 mV	17.11 ft	400.00 ml/min
4/20/2023 8:34 AM	30:00	6.03 pH	21.22 °C	98.72 µS/cm	0.73 mg/L	10.60 NTU	97.6 mV	17.11 ft	400.00 ml/min
4/20/2023 8:39 AM	35:00	6.02 pH	21.28 °C	98.22 µS/cm	0.71 mg/L	9.05 NTU	96.8 mV	17.11 ft	400.00 ml/min
4/20/2023 8:44 AM	40:00	6.00 pH	21.24 °C	96.22 µS/cm	0.67 mg/L	7.35 NTU	98.0 mV	17.11 ft	400.00 ml/min
4/20/2023 8:49 AM	45:00	6.02 pH	21.37 °C	97.96 µS/cm	0.72 mg/L	6.89 NTU	95.3 mV	17.11 ft	400.00 ml/min
4/20/2023 8:54 AM	50:00	6.03 pH	21.37 °C	100.87 µS/cm	0.76 mg/L	5.60 NTU	96.0 mV	17.11 ft	400.00 ml/min
4/20/2023 8:59 AM	55:00	6.04 pH	21.39 °C	101.34 µS/cm	0.79 mg/L	4.57 NTU	93.7 mV	17.11 ft	400.00 ml/min
4/20/2023 9:04 AM	01:00:00	6.06 pH	21.42 °C	106.29 µS/cm	0.88 mg/L	4.21 NTU	92.5 mV	17.11 ft	400.00 ml/min

4/20/2023 9:09 AM	01:05:00	6.06 pH	21.52 °C	103.93 µS/cm	0.89 mg/L	4.49 NTU	91.9 mV	17.11 ft	400.00 ml/min
4/20/2023 9:14 AM	01:10:00	6.06 pH	21.55 °C	104.81 µS/cm	0.90 mg/L	4.34 NTU	92.5 mV	17.11 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-19	Sample time 0918
EB-01	Sample time 0851
FB-01	Sample time 0841

Low-Flow Test Report:

Test Date / Time: 5/24/2023 11:17:49 AM

Project: Daniel NAMU CCR MW-19

Operator Name: Rick Hagendorfer

Location Name: Daniel NAMU CCR MW-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.4 ft Total Depth: 32.4 ft Initial Depth to Water: 18.34 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 27.4 ft Estimated Total Volume Pumped: 44000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.1 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Cloudy 80

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
5/24/2023 11:17 AM	00:00	5.84 pH	22.09 °C	100.04 µS/cm	2.33 mg/L		69.4 mV	18.34 ft	400.00 ml/min
5/24/2023 11:22 AM	05:00	5.81 pH	21.82 °C	76.58 µS/cm	0.99 mg/L	10.70 NTU	59.4 mV	18.44 ft	400.00 ml/min
5/24/2023 11:27 AM	10:00	5.61 pH	21.82 °C	55.75 µS/cm	0.50 mg/L	11.10 NTU	62.0 mV	18.44 ft	400.00 ml/min
5/24/2023 11:32 AM	15:00	5.49 pH	21.77 °C	50.36 µS/cm	0.39 mg/L	9.77 NTU	65.0 mV	18.44 ft	400.00 ml/min
5/24/2023 11:37 AM	20:00	5.40 pH	21.75 °C	47.17 µS/cm	0.32 mg/L	7.41 NTU	67.2 mV	18.44 ft	400.00 ml/min
5/24/2023 11:42 AM	25:00	5.36 pH	21.78 °C	44.95 µS/cm	0.28 mg/L	6.05 NTU	67.5 mV	18.44 ft	400.00 ml/min
5/24/2023 11:47 AM	30:00	5.31 pH	21.77 °C	43.76 µS/cm	0.26 mg/L	4.78 NTU	67.8 mV	18.44 ft	400.00 ml/min
5/24/2023 11:52 AM	35:00	5.27 pH	21.77 °C	42.76 µS/cm	0.24 mg/L	3.91 NTU	68.2 mV	18.44 ft	400.00 ml/min
5/24/2023 11:57 AM	40:00	5.26 pH	21.83 °C	42.42 µS/cm	0.23 mg/L	3.73 NTU	67.4 mV	18.44 ft	400.00 ml/min
5/24/2023 12:02 PM	45:00	5.22 pH	21.93 °C	41.55 µS/cm	0.22 mg/L	3.11 NTU	68.3 mV	18.44 ft	400.00 ml/min
5/24/2023 12:07 PM	50:00	5.21 pH	21.84 °C	41.12 µS/cm	0.21 mg/L	2.79 NTU	68.6 mV	18.44 ft	400.00 ml/min
5/24/2023 12:12 PM	55:00	5.18 pH	21.87 °C	40.50 µS/cm	0.21 mg/L	2.92 NTU	68.8 mV	18.44 ft	400.00 ml/min
5/24/2023 12:17 PM	01:00:00	5.18 pH	22.02 °C	40.36 µS/cm	0.20 mg/L	2.63 NTU	69.1 mV	18.44 ft	400.00 ml/min

5/24/2023 12:22 PM	01:05:00	5.17 pH	22.18 °C	40.09 µS/cm	0.20 mg/L	2.33 NTU	69.5 mV	18.44 ft	400.00 ml/min
5/24/2023 12:27 PM	01:10:00	5.16 pH	22.09 °C	40.00 µS/cm	0.19 mg/L	2.37 NTU	69.5 mV	18.44 ft	400.00 ml/min
5/24/2023 12:32 PM	01:15:00	5.17 pH	22.27 °C	40.22 µS/cm	0.19 mg/L	2.08 NTU	69.6 mV	18.44 ft	400.00 ml/min
5/24/2023 12:37 PM	01:20:00	5.17 pH	22.17 °C	40.15 µS/cm	0.19 mg/L	1.90 NTU	69.9 mV	18.44 ft	400.00 ml/min
5/24/2023 12:42 PM	01:25:00	5.15 pH	22.22 °C	39.36 µS/cm	0.19 mg/L	1.79 NTU	70.7 mV	18.44 ft	400.00 ml/min
5/24/2023 12:47 PM	01:30:00	5.15 pH	22.20 °C	39.66 µS/cm	0.19 mg/L	1.72 NTU	71.6 mV	18.44 ft	400.00 ml/min
5/24/2023 12:52 PM	01:35:00	5.14 pH	22.19 °C	39.53 µS/cm	0.19 mg/L	1.68 NTU	71.8 mV	18.44 ft	400.00 ml/min
5/24/2023 12:57 PM	01:40:00	5.16 pH	22.27 °C	39.50 µS/cm	0.19 mg/L	1.67 NTU	72.0 mV	18.44 ft	400.00 ml/min
5/24/2023 1:02 PM	01:45:00	5.14 pH	22.22 °C	39.30 µS/cm	0.19 mg/L	1.67 NTU	72.8 mV	18.44 ft	400.00 ml/min
5/24/2023 1:07 PM	01:50:00	5.15 pH	22.11 °C	39.55 µS/cm	0.19 mg/L	1.66 NTU	73.7 mV	18.44 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-19	Sample time 1312
Dup-01	Fake sample time 1212

2nd
Semi-Annual
Monitoring Event



ANALYTICAL REPORT

PREPARED FOR

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 11/14/2023 4:23:09 PM

JOB DESCRIPTION

Plant Daniel NAMU CCR

JOB NUMBER

180-164675-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



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11/14/2023 4:23:09 PM

Authorized for release by
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Case Narrative

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Job ID: 180-164675-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-164675-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/1/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.7°C and 0.8°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 2540C_Calcd: The sample did not reach a stable weight following 3 cycles of heating, cooling, and desiccation. The cycle 3 weight was used to calculate the Total Dissolved Solids (TDS) for the sample result.

MW-18 (180-164675-1)

Method 2540C_Calcd: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MW-16 (180-164675-3)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-24
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-24
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-24
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-24
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-24
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23 *
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462019-8	05-31-24
Virginia	NELAP	10043	07-14-24
West Virginia DEP	State	142	01-31-24
Wisconsin	State	998027800	08-31-24

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	11-09-23
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Sample Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-164675-1	MW-18	Water	10/30/23 08:28	11/01/23 10:30
180-164675-2	MW-19	Water	10/30/23 11:24	11/01/23 10:30
180-164675-3	MW-16	Water	10/27/23 18:00	11/01/23 10:30
180-164675-4	MW-17	Water	10/27/23 17:17	11/01/23 10:30
180-164675-5	DUP-06	Water	10/30/23 10:24	11/01/23 10:30
180-164675-6	EB-03	Water	10/30/23 10:36	11/01/23 10:30
180-164675-7	FB-03	Water	10/30/23 10:57	11/01/23 10:30

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Method Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Method	Method Description	Protocol	Laboratory
EPA 9056A	Anions, Ion Chromatography	SW846	EET PIT
6020B	Metals (ICP/MS)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Client Sample ID: MW-18
Date Collected: 10/30/23 08:28
Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450842	11/02/23 12:32	AM	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			807023	11/07/23 19:47	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806837	11/06/23 20:50	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	451120	11/06/23 13:06	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			451752	10/30/23 09:28	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: MW-19
Date Collected: 10/30/23 11:24
Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450842	11/02/23 13:17	AM	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			807023	11/07/23 19:23	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806837	11/06/23 20:38	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	451120	11/06/23 13:06	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			451752	10/30/23 12:24	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: MW-16
Date Collected: 10/27/23 18:00
Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450842	11/02/23 13:31	AM	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			807023	11/07/23 19:27	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806837	11/06/23 20:41	BWR	EET SAV
Instrument ID: ICPMSD										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Client Sample ID: MW-16

Date Collected: 10/27/23 18:00

Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	451525	11/09/23 17:46	LWM	EET PIT
Total/NA	Analysis	Field Sampling		1			451752	10/27/23 19:00	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: MW-17

Date Collected: 10/27/23 17:17

Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450842	11/02/23 13:46	AM	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			807023	11/07/23 19:51	BWR	EET SAV
Instrument ID: ICPMSC										
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806837	11/06/23 20:53	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	450865	11/02/23 13:36	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			451752	10/27/23 18:17	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: DUP-06

Date Collected: 10/30/23 10:24

Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450842	11/02/23 14:01	AM	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	806564	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806838	11/06/23 18:53	BWR	EET SAV
Instrument ID: ICPMSC										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	451120	11/06/23 13:06	LWM	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: EB-03

Date Collected: 10/30/23 10:36

Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450842	11/02/23 14:16	AM	EET PIT
Instrument ID: CHICS2100B										
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			807023	11/07/23 19:35	BWR	EET SAV
Instrument ID: ICPMSC										

Eurofins Pittsburgh

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Client Sample ID: EB-03
Date Collected: 10/30/23 10:36
Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806837	11/06/23 20:47	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	451120	11/06/23 13:06	LWM	EET PIT
		Instrument ID: NOEQUIP								

Client Sample ID: FB-03
Date Collected: 10/30/23 10:57
Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450842	11/02/23 19:58	AM	EET PIT
		Instrument ID: CHICS2100B								
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			807023	11/07/23 19:31	BWR	EET SAV
		Instrument ID: ICPMSD								
Total Recoverable	Prep	3005A			25 mL	125 mL	806563	11/06/23 05:49	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806837	11/06/23 20:44	BWR	EET SAV
		Instrument ID: ICPMSD								
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	451120	11/06/23 13:06	LWM	EET PIT
		Instrument ID: NOEQUIP								

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058
 EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Analyst References:

Lab: EET PIT
 Batch Type: Analysis
 AM = Adzaira Musule
 FDS = Sampler Field
 LWM = Leslie McIntire

Lab: EET SAV
 Batch Type: Prep
 RR = Robert Rancourt

Batch Type: Analysis
 BWR = Bryn Robertson

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Client Sample ID: MW-18

Lab Sample ID: 180-164675-1

Date Collected: 10/30/23 08:28

Matrix: Water

Date Received: 11/01/23 10:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.1		1.00	0.713	mg/L			11/02/23 12:32	1
Fluoride	<0.0260		0.100	0.0260	mg/L			11/02/23 12:32	1
Sulfate	7.39		1.00	0.756	mg/L			11/02/23 12:32	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0304	J	0.0800	0.0220	mg/L		11/06/23 05:49	11/07/23 19:47	1
Calcium	0.427	J	0.500	0.140	mg/L		11/06/23 05:49	11/06/23 20:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	15.0		10.0	10.0	mg/L			11/06/23 13:06	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.64				SU			10/30/23 09:28	1

Client Sample ID: MW-19

Lab Sample ID: 180-164675-2

Date Collected: 10/30/23 11:24

Matrix: Water

Date Received: 11/01/23 10:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.88		1.00	0.713	mg/L			11/02/23 13:17	1
Fluoride	0.0511	J	0.100	0.0260	mg/L			11/02/23 13:17	1
Sulfate	2.73		1.00	0.756	mg/L			11/02/23 13:17	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.0800	0.0220	mg/L		11/06/23 05:49	11/07/23 19:23	1
Calcium	1.19		0.500	0.140	mg/L		11/06/23 05:49	11/06/23 20:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	29.0		10.0	10.0	mg/L			11/06/23 13:06	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.01				SU			10/30/23 12:24	1

Client Sample ID: MW-16

Lab Sample ID: 180-164675-3

Date Collected: 10/27/23 18:00

Matrix: Water

Date Received: 11/01/23 10:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.4		1.00	0.713	mg/L			11/02/23 13:31	1
Fluoride	0.0612	J	0.100	0.0260	mg/L			11/02/23 13:31	1
Sulfate	3.08		1.00	0.756	mg/L			11/02/23 13:31	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Client Sample ID: MW-16

Lab Sample ID: 180-164675-3

Date Collected: 10/27/23 18:00

Matrix: Water

Date Received: 11/01/23 10:30

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.0800	0.0220	mg/L		11/06/23 05:49	11/07/23 19:27	1
Calcium	1.05		0.500	0.140	mg/L		11/06/23 05:49	11/06/23 20:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	21.0	H	10.0	10.0	mg/L			11/09/23 17:46	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.47				SU			10/27/23 19:00	1

Client Sample ID: MW-17

Lab Sample ID: 180-164675-4

Date Collected: 10/27/23 17:17

Matrix: Water

Date Received: 11/01/23 10:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.16		1.00	0.713	mg/L			11/02/23 13:46	1
Fluoride	0.0494	J	0.100	0.0260	mg/L			11/02/23 13:46	1
Sulfate	3.82		1.00	0.756	mg/L			11/02/23 13:46	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.0800	0.0220	mg/L		11/06/23 05:49	11/07/23 19:51	1
Calcium	0.916		0.500	0.140	mg/L		11/06/23 05:49	11/06/23 20:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	14.0		10.0	10.0	mg/L			11/02/23 13:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.82				SU			10/27/23 18:17	1

Client Sample ID: DUP-06

Lab Sample ID: 180-164675-5

Date Collected: 10/30/23 10:24

Matrix: Water

Date Received: 11/01/23 10:30

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.76		1.00	0.713	mg/L			11/02/23 14:01	1
Fluoride	0.0505	J	0.100	0.0260	mg/L			11/02/23 14:01	1
Sulfate	2.67		1.00	0.756	mg/L			11/02/23 14:01	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0546	J B	0.0800	0.0220	mg/L		11/06/23 05:49	11/06/23 18:53	1
Calcium	1.24		0.500	0.140	mg/L		11/06/23 05:49	11/06/23 18:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	30.0		10.0	10.0	mg/L			11/06/23 13:06	1

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Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Client Sample ID: EB-03

Date Collected: 10/30/23 10:36

Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-6

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.713		1.00	0.713	mg/L			11/02/23 14:16	1
Fluoride	<0.0260		0.100	0.0260	mg/L			11/02/23 14:16	1
Sulfate	<0.756		1.00	0.756	mg/L			11/02/23 14:16	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.0800	0.0220	mg/L		11/06/23 05:49	11/07/23 19:35	1
Calcium	<0.140		0.500	0.140	mg/L		11/06/23 05:49	11/06/23 20:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10.0		10.0	10.0	mg/L			11/06/23 13:06	1

Client Sample ID: FB-03

Date Collected: 10/30/23 10:57

Date Received: 11/01/23 10:30

Lab Sample ID: 180-164675-7

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.713		1.00	0.713	mg/L			11/02/23 19:58	1
Fluoride	<0.0260		0.100	0.0260	mg/L			11/02/23 19:58	1
Sulfate	<0.756		1.00	0.756	mg/L			11/02/23 19:58	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.0800	0.0220	mg/L		11/06/23 05:49	11/07/23 19:31	1
Calcium	<0.140		0.500	0.140	mg/L		11/06/23 05:49	11/06/23 20:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10.0		10.0	10.0	mg/L			11/06/23 13:06	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Method: EPA 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 180-450842/6
Matrix: Water
Analysis Batch: 450842

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.713		1.00	0.713	mg/L			11/02/23 12:02	1
Fluoride	<0.0260		0.100	0.0260	mg/L			11/02/23 12:02	1
Sulfate	<0.756		1.00	0.756	mg/L			11/02/23 12:02	1

Lab Sample ID: LCS 180-450842/7
Matrix: Water
Analysis Batch: 450842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	47.98		mg/L		96	80 - 120
Fluoride	2.50	2.578		mg/L		103	80 - 120
Sulfate	50.0	48.86		mg/L		98	80 - 120

Lab Sample ID: 180-164675-1 MS
Matrix: Water
Analysis Batch: 450842

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	11.1		50.0	54.58		mg/L		87	80 - 120
Fluoride	<0.0260		2.50	2.659		mg/L		106	80 - 120
Sulfate	7.39		50.0	57.84		mg/L		101	80 - 120

Lab Sample ID: 180-164675-1 MSD
Matrix: Water
Analysis Batch: 450842

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	11.1		50.0	52.07		mg/L		82	80 - 120	5	15
Fluoride	<0.0260		2.50	2.538		mg/L		102	80 - 120	5	15
Sulfate	7.39		50.0	55.13		mg/L		95	80 - 120	5	15

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-806563/1-A
Matrix: Water
Analysis Batch: 806837

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 806563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.140		0.500	0.140	mg/L		11/06/23 05:49	11/06/23 19:55	1

Lab Sample ID: MB 680-806563/1-A
Matrix: Water
Analysis Batch: 807023

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 806563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.0800	0.0220	mg/L		11/06/23 05:49	11/07/23 18:58	1

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QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 680-806563/2-A
Matrix: Water
Analysis Batch: 806837

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 806563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5.00	5.085		mg/L		102	80 - 120

Lab Sample ID: LCS 680-806563/2-A
Matrix: Water
Analysis Batch: 807023

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 806563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.400	0.3974		mg/L		99	80 - 120

Lab Sample ID: MB 680-806564/1-A
Matrix: Water
Analysis Batch: 806838

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 806564

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.04491	J	0.0800	0.0220	mg/L		11/06/23 05:49	11/06/23 18:45	1
Calcium	<0.140		0.500	0.140	mg/L		11/06/23 05:49	11/06/23 18:45	1

Lab Sample ID: LCS 680-806564/2-A
Matrix: Water
Analysis Batch: 806838

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 806564

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.400	0.3857		mg/L		96	80 - 120
Calcium	5.00	5.060		mg/L		101	80 - 120

Lab Sample ID: 180-164675-5 MS
Matrix: Water
Analysis Batch: 806838

Client Sample ID: DUP-06
Prep Type: Total Recoverable
Prep Batch: 806564

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	0.0546	J B	0.400	0.4071		mg/L		88	75 - 125
Calcium	1.24		5.00	6.405		mg/L		103	75 - 125

Lab Sample ID: 180-164675-5 MSD
Matrix: Water
Analysis Batch: 806838

Client Sample ID: DUP-06
Prep Type: Total Recoverable
Prep Batch: 806564

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	0.0546	J B	0.400	0.4139		mg/L		90	75 - 125	2	20
Calcium	1.24		5.00	6.382		mg/L		103	75 - 125	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-450865/1
Matrix: Water
Analysis Batch: 450865

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10.0		10.0	10.0	mg/L			11/02/23 13:36	1

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QC Sample Results

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCS 180-450865/2
Matrix: Water
Analysis Batch: 450865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	336	302.0		mg/L		90	85 - 115

Lab Sample ID: MB 180-451120/1
Matrix: Water
Analysis Batch: 451120

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10.0		10.0	10.0	mg/L			11/06/23 13:06	1

Lab Sample ID: LCS 180-451120/2
Matrix: Water
Analysis Batch: 451120

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	336	326.0		mg/L		97	85 - 115

Lab Sample ID: MB 180-451525/1
Matrix: Water
Analysis Batch: 451525

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10.0		10.0	10.0	mg/L			11/09/23 17:46	1

Lab Sample ID: LCS 180-451525/2
Matrix: Water
Analysis Batch: 451525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	336	308.0		mg/L		92	85 - 115

QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

HPLC/IC

Analysis Batch: 450842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164675-1	MW-18	Total/NA	Water	EPA 9056A	
180-164675-2	MW-19	Total/NA	Water	EPA 9056A	
180-164675-3	MW-16	Total/NA	Water	EPA 9056A	
180-164675-4	MW-17	Total/NA	Water	EPA 9056A	
180-164675-5	DUP-06	Total/NA	Water	EPA 9056A	
180-164675-6	EB-03	Total/NA	Water	EPA 9056A	
180-164675-7	FB-03	Total/NA	Water	EPA 9056A	
MB 180-450842/6	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-450842/7	Lab Control Sample	Total/NA	Water	EPA 9056A	
180-164675-1 MS	MW-18	Total/NA	Water	EPA 9056A	
180-164675-1 MSD	MW-18	Total/NA	Water	EPA 9056A	

Metals

Prep Batch: 806563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164675-1	MW-18	Total Recoverable	Water	3005A	
180-164675-2	MW-19	Total Recoverable	Water	3005A	
180-164675-3	MW-16	Total Recoverable	Water	3005A	
180-164675-4	MW-17	Total Recoverable	Water	3005A	
180-164675-6	EB-03	Total Recoverable	Water	3005A	
180-164675-7	FB-03	Total Recoverable	Water	3005A	
MB 680-806563/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-806563/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 806564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164675-5	DUP-06	Total Recoverable	Water	3005A	
MB 680-806564/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-806564/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-164675-5 MS	DUP-06	Total Recoverable	Water	3005A	
180-164675-5 MSD	DUP-06	Total Recoverable	Water	3005A	

Analysis Batch: 806837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164675-1	MW-18	Total Recoverable	Water	6020B	806563
180-164675-2	MW-19	Total Recoverable	Water	6020B	806563
180-164675-3	MW-16	Total Recoverable	Water	6020B	806563
180-164675-4	MW-17	Total Recoverable	Water	6020B	806563
180-164675-6	EB-03	Total Recoverable	Water	6020B	806563
180-164675-7	FB-03	Total Recoverable	Water	6020B	806563
MB 680-806563/1-A	Method Blank	Total Recoverable	Water	6020B	806563
LCS 680-806563/2-A	Lab Control Sample	Total Recoverable	Water	6020B	806563

Analysis Batch: 806838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164675-5	DUP-06	Total Recoverable	Water	6020B	806564
MB 680-806564/1-A	Method Blank	Total Recoverable	Water	6020B	806564
LCS 680-806564/2-A	Lab Control Sample	Total Recoverable	Water	6020B	806564
180-164675-5 MS	DUP-06	Total Recoverable	Water	6020B	806564
180-164675-5 MSD	DUP-06	Total Recoverable	Water	6020B	806564

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QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164675-1

Metals

Analysis Batch: 807023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164675-1	MW-18	Total Recoverable	Water	6020B	806563
180-164675-2	MW-19	Total Recoverable	Water	6020B	806563
180-164675-3	MW-16	Total Recoverable	Water	6020B	806563
180-164675-4	MW-17	Total Recoverable	Water	6020B	806563
180-164675-6	EB-03	Total Recoverable	Water	6020B	806563
180-164675-7	FB-03	Total Recoverable	Water	6020B	806563
MB 680-806563/1-A	Method Blank	Total Recoverable	Water	6020B	806563
LCS 680-806563/2-A	Lab Control Sample	Total Recoverable	Water	6020B	806563

General Chemistry

Analysis Batch: 450865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164675-4	MW-17	Total/NA	Water	SM 2540C	
MB 180-450865/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-450865/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 451120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164675-1	MW-18	Total/NA	Water	SM 2540C	
180-164675-2	MW-19	Total/NA	Water	SM 2540C	
180-164675-5	DUP-06	Total/NA	Water	SM 2540C	
180-164675-6	EB-03	Total/NA	Water	SM 2540C	
180-164675-7	FB-03	Total/NA	Water	SM 2540C	
MB 180-451120/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-451120/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 451525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164675-3	MW-16	Total/NA	Water	SM 2540C	
MB 180-451525/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-451525/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 451752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164675-1	MW-18	Total/NA	Water	Field Sampling	
180-164675-2	MW-19	Total/NA	Water	Field Sampling	
180-164675-3	MW-16	Total/NA	Water	Field Sampling	
180-164675-4	MW-17	Total/NA	Water	Field Sampling	

Chain of Custody Record

Client Information Client Contact: <i>SCS Contacts</i> SCS Contacts Company: <i>SCS</i>		Lab PM: <i>Brown, Shail</i> E-Mail: <i>shail.brown@eurofinset.com</i>		Carrier Tracking No(s): COC No:		Page: <i>101</i> Job #:				
Address: <i>3535 Colonnade Pkwy Bin S 530 EC</i> City: <i>Birmingham</i> State, Zip: <i>Alabama</i> Phone: <i>205 992 6283</i> Email: <i>SCS Contacts</i> Project Name: <i>Daniel NAMU CCR</i> Site:		Due Date Requested: TAT Requested (days): PO #: WO #: Project #: <i>18020047</i> SSOW#:		Analysis Requested						
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, BT=Tissue, A=Air)	6020B Boron and Calcium	9056 Chloride Fluoride Sulfate	Total Dissolved Solids	Total Number of Containers	Note:
<i>MW-18</i>		<i>10-30-23</i>	<i>0828</i>	<i>G</i>	<i>Water</i>	X	X	X	3	180-164675 Chain of Custody
<i>MW-19</i>		<i>10-30-23</i>	<i>1124</i>	<i>G</i>	<i>Water</i>	X	X	X	3	
<i>MW-16</i>		<i>10-27-23</i>	<i>1800</i>	<i>G</i>	<i>Water</i>	X	X	X	3	
<i>MW-17</i>		<i>10-27-23</i>	<i>1717</i>	<i>G</i>	<i>Water</i>	X	X	X	3	
<i>DWP-06</i>		<i>10-30-23</i>	<i>1024</i>	<i>G</i>	<i>Water</i>	X	X	X	3	
<i>EB-03</i>		<i>10-30-23</i>	<i>1036</i>	<i>G</i>	<i>Water</i>	X	X	X	3	
<i>FB-03</i>		<i>10-30-23</i>	<i>1057</i>	<i>G</i>	<i>Water</i>	X	X	X	3	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date/Time:		Date/Time:		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		
Relinquished by: <i>SCS</i>		Date/Time: <i>10-30-23 1212</i>		Date/Time: <i>11/01/23 1030</i>		Special Instructions/QC Requirements:		Method of Shipment:		
Relinquished by: <i>SCS</i>		Date/Time:		Date/Time:		Received by: <i>Shail</i>		Company: <i>EUROFIN</i>		
Relinquished by:		Date/Time:		Date/Time:		Received by:		Company:		
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Ver 01/16/2019				



Chain of Custody Record

Client Information		Lab PM Brown, Shail		Carrier Tracking No(s)		COC No	
Client Contact: SCS Contacts		E-Mail shail.brown@eurofinset.com		Page 101		Job # 101	
Company SCS		Address 3535 Colonnade Pkwy Bin S 530 EC		Analysis Requested		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDA Other:	
City Birmingham		State, Zip Alabama		Total Dissolved Solids		Note:	
Phone 205 992 6283		PO #		9056 Chloride Fluoride Sulfate		Barcode: 180-164675 Chain of Custody	
Email		WO #		6208 Boron and Calcium			
SCS Contacts		Project # 18020047		6208 Boron and Calcium			
Project Name Daniel NAMU CCR		SSOW#		6208 Boron and Calcium			
Site		Due Date Requested:		6208 Boron and Calcium			
Sample Identification		TAT Requested (days):		6208 Boron and Calcium			
Sample ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wateroil)	6208 Boron and Calcium		
MW-18	10-30-23	0828	G	water	X	X	
MW-19	10-30-23	1124	G	water	X	X	
MW-16	10-27-23	1800	G	water	X	X	
MW-17	10-27-23	1717	G	water	X	X	
DWP-06	10-30-23	1024	G	water	X	X	
EB-03	10-30-23	1036	G	water	X	X	
FB-03	10-30-23	1057	G	water	X	X	
Possible Hazard Identification		Date		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Time		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested I, II, III, IV, Other (specify)		Date		Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 10-30-23 1212		Received by: <i>[Signature]</i>		Date/Time: 11/01/23 1030	
Relinquished by:		Date/Time		Received by:		Date/Time	
Relinquished by:		Date/Time		Received by:		Date/Time	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Part # 1562974865 FRD B2 EXP 08/24

ORIGIN ID:MOBA (850) 336-0192
RICK HAGENDORFER
TEST AMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US


TO TEST AMERICA PITTSBURGH

301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

SHIP DATE: 30OCT23
ACTWGT: 36.45 LB
CAD: 6994563/5SFE2441
DIMS: 17x12x15 IN
BILL THIRD PARTY




Uncorrected temp 1.1 °C
Thermometer ID 17
CF -0.4 Initials JK

PT-WI-SR-001 effective 11/8/18

2 of 2
MPS# 7857 2441 6921
Mstr# 7857 2441 6910

TUE - 31 OCT 10:30A
PRIORITY OVERNIGHT
AHS 15238
PIT PA-US



XS AGCA

ORIGIN ID:MOBA (850) 336-0192
RICK HAGENDORFER
TEST AMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

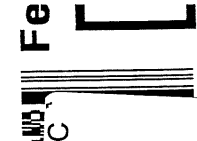
TO TEST AMERICA PITTSBURGH

301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

SHIP DATE: 30OCT23
ACTWGT: 60.85 LB
CAD: 6994563/5SFE244
DIMS: 25x14x14 IN
BILL THIRD PARTY



Uncorrected temp 1.2 °C
Thermometer ID 17
CF -0.4 Initials JK

PT-WI-SR-001 effective 11/8/18

1 of 2
TRK# 7857 2441 6910
MASTER

TUE - 31 OCT
PRIORITY OVER

XS AGCA

1
PA-US



180-164675 Waybill

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- 13

Part # 1562974865 FRD B2 EXP 08/24

ORIGIN ID:MOBA (850) 336-0192
RICK HAGENDORFER
TEST AMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US


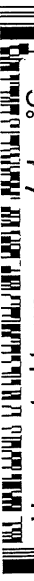



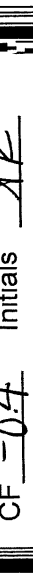
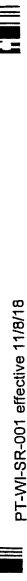
SHIP DATE: 30OCT23
ACTWGT: 36.45 LB
CAD: 6994563/5SFE2441
DIMS: 17x12x15 IN
BILL THIRD PARTY

TO TEST AMERICA PITTSBURGH

301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

Uncorrected temp 1.1 °C

Thermometer ID 17

CF -0.4 Initials AK

PT-WI-SR-001 effective 11/8/18



2 of 2 TUE - 31 OCT 10:30A

MPS# 7857 2441 6921 PRIORITY OVERNIGHT AHS 15238

Mstr# 7857 2441 6910

XS AGCA

PA-US



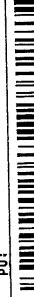
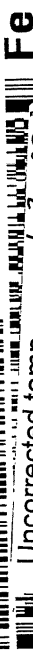


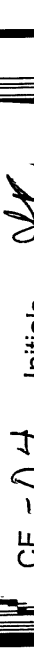
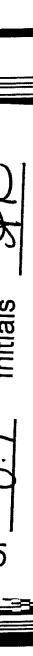

ORIGIN ID:MOBA (850) 336-0192
RICK HAGENDORFER
TEST AMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

TO TEST AMERICA PITTSBURGH

301 ALPHA DR

PITTSBURGH PA 15238

(850) 336-0192 REF: DEPT:

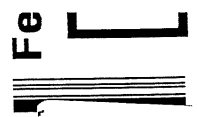








Uncorrected temp 1.2 °C

Thermometer ID 17

CF -0.4 Initials AK

PT-WI-SR-001 effective 11/8/18



1 of 2 TUE - 31 OCT

TRK# 7857 2441 6910 PRIORITY OVER

MASTER

XS AGCA

PA-US



180-164675 Waybill

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Eurofins Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



Client Information (Sub Contract Lab)				Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:	
Client Contact: Shipping/Receiving				Phone:	Brown, Shali	State of Origin:	180-498840.1	
Company: Eurofins Environment Testing Southeast,				E-Mail:	Mississippi	Page:	Page 1 of 1	
Address: 5102 LaRoche Avenue,				Accreditations Required (See note):			Job #:	
City: Savannah				Analysis Requested			Total Number of containers	Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)
Due Date Requested: 11/14/2023								
TAT Requested (days):								
PO #:								
WO #:								
Project Name: Plant Daniel NAMU CCR				Project #: 18020047			Other:	
Site:				SSOW#:				
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soils/sed, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	
				Preservation Code:				
MW-18 (180-164675-1)	10/30/23	08:28 Central	Water			X	1	
MW-19 (180-164675-2)	10/30/23	11:24 Central	Water			X	1	
MW-16 (180-164675-3)	10/27/23	18:00 Central	Water			X	1	
MW-17 (180-164675-4)	10/27/23	17:17 Central	Water			X	1	
DUP-06 (180-164675-5)	10/30/23	10:24 Central	Water			X	1	
EB-03 (180-164675-6)	10/30/23	10:36 Central	Water			X	1	
FB-03 (180-164675-7)	10/30/23	10:57 Central	Water			X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.								
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2	Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:				
Relinquished by: <i>[Signature]</i>		Date/Time: 11/3/23 1000	Company: EPITANE	Received by:		Date/Time:	Company:	
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:	
Relinquished by:		Date/Time:	Company:	Received by: <i>C. Mann</i>		Date/Time: 11/13/23 0837	Company: <i>EPITANE</i>	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: 129/13.2				



Eurofins Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)				Sampler:		Lab PM: Brown, Shali		Carrier Tracking No(s):				COC No: 180-498840.1			
Client Contact: Shipping/Receiving				Phone:		E-Mail: Shali.Brown@et.eurofins.com		State of Origin: Mississippi				Page: Page 1 of 1			
Company: Eurofins Environment Testing Southeast,				Address: 5102 LaRoche Avenue,		Due Date Requested: 11/14/2023		Analysis Requested				Job #: 180-164675-1			
City: Savannah				State, Zip: GA, 31404		TAT Requested (days):						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Y - Trizma Z - other (specify)		Other:	
Project Name: Plant Daniel NAMU CCR				Project #: 18020047		SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of containers			
Site:				PO #:		WO #:		6020B/3005A App III Boron and Calcium							
Sample Identification - Client ID (Lab ID)				Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=soils/sol, BT=Tissue, A=Air)		Special Instructions/Note:			
MW-18 (180-164675-1)				10/30/23		08:28 Central		Water		X		1			
MW-19 (180-164675-2)				10/30/23		11:24 Central		Water		X		1			
MW-16 (180-164675-3)				10/27/23		18:00 Central		Water		X		1			
MW-17 (180-164675-4)				10/27/23		17:17 Central		Water		X		1			
DUP-06 (180-164675-5)				10/30/23		10:24 Central		Water		X		1			
EB-03 (180-164675-6)				10/30/23		10:36 Central		Water		X		1			
FB-03 (180-164675-7)				10/30/23		10:57 Central		Water		X		1			
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>															
Possible Hazard Identification								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
Unconfirmed								<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)				Primary Deliverable Rank: 2				Special Instructions/QC Requirements:							
Empty Kit Relinquished by:				Date:				Time:				Method of Shipment:			
Relinquished by: <i>[Signature]</i>				Date/Time: 11/3/23 1000				Company: EPITANE				Received by:			
Relinquished by:				Date/Time:				Company:				Received by:			
Relinquished by:				Date/Time:				Company:				Received by: <i>C. Mann</i>			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks: 12.9/13.2				Date/Time: 11/13/23 0837			

Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-164675-1

Login Number: 164675

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-164675-1

Login Number: 164675

List Number: 2

Creator: Munro, Caroline

List Source: Eurofins Savannah

List Creation: 11/04/23 01:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	





ANALYTICAL REPORT

PREPARED FOR

Attn: Robert (Trey) Singleton
Southern Company
3535 Colonnade Parkway
Bin S 530 EC
Birmingham, Alabama 35243

Generated 11/14/2023 4:20:11 PM

JOB DESCRIPTION

Plant Daniel NAMU CCR

JOB NUMBER

180-164554-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



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11/14/2023 4:20:11 PM

Authorized for release by
Shali Brown, Project Manager II
Shali.Brown@et.eurofinsus.com
(615)301-5031



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Case Narrative

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Job ID: 180-164554-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-164554-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/28/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 2.0°C, 3.8°C, 3.9°C, 4.1°C and 4.9°C

HPLC/IC

Method 9056A_ORGFM_28D: The continuing calibration verification (CCV) associated with batch 180-450609 recovered above the upper control limit for fluoride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 180-450609/28).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-24
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-24
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-24
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-23
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-24
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-23
North Dakota	State	R-227	04-30-24
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-23 *
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462019-8	05-31-24
Virginia	NELAP	10043	07-14-24
West Virginia DEP	State	142	01-31-24
Wisconsin	State	998027800	08-31-24

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas DEQ	State	19-015-0	02-01-24
California	State	2939	06-30-24
Florida	NELAP	E87052	11-09-23
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-23
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Pittsburgh

Accreditation/Certification Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana (DW)	State	LA009	12-31-23
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-23
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-23
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-24
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-23
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Sample Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-164554-1	MW-11	Water	10/27/23 14:30	10/28/23 09:45
180-164554-2	MW-14	Water	10/27/23 11:25	10/28/23 09:45
180-164554-3	MW-15	Water	10/27/23 09:10	10/28/23 09:45
180-164554-4	DUP-04	Water	10/27/23 13:30	10/28/23 09:45

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Method Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Method	Method Description	Protocol	Laboratory
EPA 9056A	Anions, Ion Chromatography	SW846	EET PIT
6020B	Metals (ICP/MS)	SW846	EET SAV
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT
Field Sampling	Field Sampling	EPA	EET PIT
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET SAV

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Client Sample ID: MW-11
Date Collected: 10/27/23 14:30
Date Received: 10/28/23 09:45

Lab Sample ID: 180-164554-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450609	11/01/23 00:13	M1D	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	125 mL	805669	11/01/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806015	11/01/23 17:15	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	450863	11/02/23 13:23	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			451752	10/27/23 15:30	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: MW-14
Date Collected: 10/27/23 11:25
Date Received: 10/28/23 09:45

Lab Sample ID: 180-164554-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450609	10/31/23 22:34	M1D	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	125 mL	805669	11/01/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806015	11/01/23 17:18	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	450863	11/02/23 13:23	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			451752	10/27/23 12:25	FDS	EET PIT
Instrument ID: NOEQUIP										

Client Sample ID: MW-15
Date Collected: 10/27/23 09:10
Date Received: 10/28/23 09:45

Lab Sample ID: 180-164554-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450609	10/31/23 22:48	M1D	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	125 mL	805669	11/01/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806015	11/01/23 17:21	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	450863	11/02/23 13:23	LWM	EET PIT
Instrument ID: NOEQUIP										
Total/NA	Analysis	Field Sampling		1			451752	10/27/23 10:10	FDS	EET PIT
Instrument ID: NOEQUIP										

Lab Chronicle

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Client Sample ID: DUP-04

Lab Sample ID: 180-164554-4

Date Collected: 10/27/23 13:30

Matrix: Water

Date Received: 10/28/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 9056A		1	1 mL	1 mL	450609	10/31/23 23:02	M1D	EET PIT
Instrument ID: CHIC2100A										
Total Recoverable	Prep	3005A			25 mL	125 mL	805669	11/01/23 06:43	RR	EET SAV
Total Recoverable	Analysis	6020B		1			806015	11/01/23 17:24	BWR	EET SAV
Instrument ID: ICPMSD										
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	450863	11/02/23 13:23	LWM	EET PIT
Instrument ID: NOEQUIP										

Laboratory References:

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Analyst References:

Lab: EET PIT

Batch Type: Analysis

FDS = Sampler Field

LWM = Leslie McIntire

M1D = Maureen Donlin

Lab: EET SAV

Batch Type: Prep

RR = Robert Rancourt

Batch Type: Analysis

BWR = Bryn Robertson

Client Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Client Sample ID: MW-11

Date Collected: 10/27/23 14:30

Date Received: 10/28/23 09:45

Lab Sample ID: 180-164554-1

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.1		1.00	0.713	mg/L			11/01/23 00:13	1
Fluoride	0.0580	J	0.100	0.0260	mg/L			11/01/23 00:13	1
Sulfate	2.72		1.00	0.756	mg/L			11/01/23 00:13	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0305	J B	0.0800	0.0220	mg/L		11/01/23 06:43	11/01/23 17:15	1
Calcium	1.42		0.500	0.140	mg/L		11/01/23 06:43	11/01/23 17:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	21.0		10.0	10.0	mg/L			11/02/23 13:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.70				SU			10/27/23 15:30	1

Client Sample ID: MW-14

Date Collected: 10/27/23 11:25

Date Received: 10/28/23 09:45

Lab Sample ID: 180-164554-2

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.77		1.00	0.713	mg/L			10/31/23 22:34	1
Fluoride	0.0511	J	0.100	0.0260	mg/L			10/31/23 22:34	1
Sulfate	1.53		1.00	0.756	mg/L			10/31/23 22:34	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.0220		0.0800	0.0220	mg/L		11/01/23 06:43	11/01/23 17:18	1
Calcium	2.28		0.500	0.140	mg/L		11/01/23 06:43	11/01/23 17:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	23.0		10.0	10.0	mg/L			11/02/23 13:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.80				SU			10/27/23 12:25	1

Client Sample ID: MW-15

Date Collected: 10/27/23 09:10

Date Received: 10/28/23 09:45

Lab Sample ID: 180-164554-3

Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.90		1.00	0.713	mg/L			10/31/23 22:48	1
Fluoride	0.0459	J	0.100	0.0260	mg/L			10/31/23 22:48	1
Sulfate	1.70		1.00	0.756	mg/L			10/31/23 22:48	1

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Client Sample Results

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Client Sample ID: MW-15
 Date Collected: 10/27/23 09:10
 Date Received: 10/28/23 09:45

Lab Sample ID: 180-164554-3
 Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0234	J B	0.0800	0.0220	mg/L	-	11/01/23 06:43	11/01/23 17:21	1
Calcium	1.13		0.500	0.140	mg/L	-	11/01/23 06:43	11/01/23 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	24.0		10.0	10.0	mg/L	-		11/02/23 13:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	4.59				SU	-		10/27/23 10:10	1

Client Sample ID: DUP-04
 Date Collected: 10/27/23 13:30
 Date Received: 10/28/23 09:45

Lab Sample ID: 180-164554-4
 Matrix: Water

Method: SW846 EPA 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.9		1.00	0.713	mg/L	-		10/31/23 23:02	1
Fluoride	0.0575	J	0.100	0.0260	mg/L	-		10/31/23 23:02	1
Sulfate	2.67		1.00	0.756	mg/L	-		10/31/23 23:02	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0226	J B	0.0800	0.0220	mg/L	-	11/01/23 06:43	11/01/23 17:24	1
Calcium	1.49		0.500	0.140	mg/L	-	11/01/23 06:43	11/01/23 17:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	21.0		10.0	10.0	mg/L	-		11/02/23 13:23	1

QC Sample Results

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Method: EPA 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 180-450609/36
Matrix: Water
Analysis Batch: 450609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.713		1.00	0.713	mg/L			10/31/23 23:45	1
Fluoride	<0.0260		0.100	0.0260	mg/L			10/31/23 23:45	1
Sulfate	<0.756		1.00	0.756	mg/L			10/31/23 23:45	1

Lab Sample ID: MB 180-450609/6
Matrix: Water
Analysis Batch: 450609

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.713		1.00	0.713	mg/L			10/31/23 11:47	1
Fluoride	<0.0260		0.100	0.0260	mg/L			10/31/23 11:47	1
Sulfate	<0.756		1.00	0.756	mg/L			10/31/23 11:47	1

Lab Sample ID: LCS 180-450609/37
Matrix: Water
Analysis Batch: 450609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	51.90		mg/L		104	80 - 120
Fluoride	2.50	2.690		mg/L		108	80 - 120
Sulfate	50.0	52.31		mg/L		105	80 - 120

Lab Sample ID: LCS 180-450609/7
Matrix: Water
Analysis Batch: 450609

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.98		mg/L		102	80 - 120
Fluoride	2.50	2.700		mg/L		108	80 - 120
Sulfate	50.0	51.34		mg/L		103	80 - 120

Lab Sample ID: 180-164554-1 MS
Matrix: Water
Analysis Batch: 450609

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.1		50.0	64.59		mg/L		105	80 - 120
Fluoride	0.0580	J	2.50	2.862		mg/L		112	80 - 120
Sulfate	2.72		50.0	56.41		mg/L		107	80 - 120

Lab Sample ID: 180-164554-1 MSD
Matrix: Water
Analysis Batch: 450609

Client Sample ID: MW-11
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.1		50.0	61.36		mg/L		99	80 - 120	5	15
Fluoride	0.0580	J	2.50	2.704		mg/L		106	80 - 120	6	15
Sulfate	2.72		50.0	53.59		mg/L		102	80 - 120	5	15

Eurofins Pittsburgh

QC Sample Results

Client: Southern Company
 Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 680-805669/1-A
Matrix: Water
Analysis Batch: 806015

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 805669

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	0.03802	J	0.0800	0.0220	mg/L		11/01/23 06:43	11/01/23 16:39	1
Calcium	<0.140		0.500	0.140	mg/L		11/01/23 06:43	11/01/23 16:39	1

Lab Sample ID: LCS 680-805669/2-A
Matrix: Water
Analysis Batch: 806015

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 805669

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5.00	5.168		mg/L		103	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 180-450863/1
Matrix: Water
Analysis Batch: 450863

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Dissolved Solids	<10.0		10.0	10.0	mg/L			11/02/23 13:23	1

Lab Sample ID: LCS 180-450863/2
Matrix: Water
Analysis Batch: 450863

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

QC Association Summary

Client: Southern Company
Project/Site: Plant Daniel NAMU CCR

Job ID: 180-164554-1

HPLC/IC

Analysis Batch: 450609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164554-1	MW-11	Total/NA	Water	EPA 9056A	
180-164554-2	MW-14	Total/NA	Water	EPA 9056A	
180-164554-3	MW-15	Total/NA	Water	EPA 9056A	
180-164554-4	DUP-04	Total/NA	Water	EPA 9056A	
MB 180-450609/36	Method Blank	Total/NA	Water	EPA 9056A	
MB 180-450609/6	Method Blank	Total/NA	Water	EPA 9056A	
LCS 180-450609/37	Lab Control Sample	Total/NA	Water	EPA 9056A	
LCS 180-450609/7	Lab Control Sample	Total/NA	Water	EPA 9056A	
180-164554-1 MS	MW-11	Total/NA	Water	EPA 9056A	
180-164554-1 MSD	MW-11	Total/NA	Water	EPA 9056A	

Metals

Prep Batch: 805669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164554-1	MW-11	Total Recoverable	Water	3005A	
180-164554-2	MW-14	Total Recoverable	Water	3005A	
180-164554-3	MW-15	Total Recoverable	Water	3005A	
180-164554-4	DUP-04	Total Recoverable	Water	3005A	
MB 680-805669/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 680-805669/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 806015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164554-1	MW-11	Total Recoverable	Water	6020B	805669
180-164554-2	MW-14	Total Recoverable	Water	6020B	805669
180-164554-3	MW-15	Total Recoverable	Water	6020B	805669
180-164554-4	DUP-04	Total Recoverable	Water	6020B	805669
MB 680-805669/1-A	Method Blank	Total Recoverable	Water	6020B	805669
LCS 680-805669/2-A	Lab Control Sample	Total Recoverable	Water	6020B	805669

General Chemistry

Analysis Batch: 450863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164554-1	MW-11	Total/NA	Water	SM 2540C	
180-164554-2	MW-14	Total/NA	Water	SM 2540C	
180-164554-3	MW-15	Total/NA	Water	SM 2540C	
180-164554-4	DUP-04	Total/NA	Water	SM 2540C	
MB 180-450863/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-450863/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Field Service / Mobile Lab

Analysis Batch: 451752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164554-1	MW-11	Total/NA	Water	Field Sampling	
180-164554-2	MW-14	Total/NA	Water	Field Sampling	
180-164554-3	MW-15	Total/NA	Water	Field Sampling	

Eurofins Pittsburgh

<p>Client Information Client Contact: Todd Voreis SCS Contacts: 850-336-0192 Company: SCS</p>		<p>Lab PM: Brown, Shail E-Mail: shail.brown@eurofinset.com</p>		<p>Carrier Tracking No(s): Job # 17-1</p>																								
<p>Address: 3535 Colonnade Pkwy Bin S 530 EC City: Birmingham State, Zip: Alabama Phone: 205.992.6283 Email: SCS Contacts: Project Name: Daniel NAMU CCR Site:</p>		<p>Due Date Requested: TAT Requested (days): PO #: WO #: Project #: 18020047 SSOW#:</p>		<p>Analysis Requested</p> <p>6020B Boron and Calcium 9065E Chloride Fluoride Sulfate Total Dissolved Solids</p>																								
<p>Sample Identification</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)</th> </tr> </thead> <tbody> <tr> <td>MW-11</td> <td>10-27-23</td> <td>1430</td> <td>G</td> <td>water</td> </tr> <tr> <td>MW-14</td> <td>10-27-23</td> <td>1125</td> <td>G</td> <td>water</td> </tr> <tr> <td>MW-15</td> <td>10-27-23</td> <td>0910</td> <td>G</td> <td>water</td> </tr> <tr> <td>DUP-04</td> <td>10-27-23</td> <td>1330</td> <td>G</td> <td>water</td> </tr> </tbody> </table>		Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	MW-11	10-27-23	1430	G	water	MW-14	10-27-23	1125	G	water	MW-15	10-27-23	0910	G	water	DUP-04	10-27-23	1330	G	water	<p>Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)</p>	
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)																								
MW-11	10-27-23	1430	G	water																								
MW-14	10-27-23	1125	G	water																								
MW-15	10-27-23	0910	G	water																								
DUP-04	10-27-23	1330	G	water																								
				<p>Special Instructions/Note: 180-164554 Chain of Custody</p>																								
<p>Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested I, II, III, IV, Other (specify):</p>																												
<p>Empty Kit Relinquished by: Relinquished by: <i>[Signature]</i> Date/Time: 10-27-23 1444 Relinquished by: <i>[Signature]</i> Date/Time: Relinquished by: Date/Time:</p>		<p>Method of Shipment: <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:</p>		<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:</p>																								
<p>Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		<p>Relinquished by: <i>[Signature]</i> Date/Time: 10-27-23 0915 Relinquished by: <i>[Signature]</i> Date/Time: Relinquished by: <i>[Signature]</i> Date/Time:</p>		<p>Company: SCS Company: Company:</p>																								



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- 13

ORIGIN ID: MOBA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
 SEE CHEERS 5 BEFORE BILL
 301 ALPHA DR
 PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 27OCT23
 ACTWGT: 75.65 LB
 CAD: 6994562/SSFE2441
 DIMS: 24x19x14 IN

BILL THIRD PARTY

Part # 15629 F3C1RPH0B29EXP 08/24

TO

TESTAMERICA PITTSBURGH LAB
 301 ALPHA DRIVE

PITTSBURGH PA 15238

(850) 336-0192

REF:

DEPT:

YNU:
 PD:

Uncorrected temp
 Thermometer ID

4.3 °C
17

CF -0.4 Initials RO

PT-WI-SR-001 effective 11/8/18

FedEx
 Express



an UPS company

1 of 5

TRK# 7856 4357 2765

0201
 ## MASTER ##

XO AGCA

SATURDAY 12:00P
 PRIORITY OVERNIGHT

AHS
 15238
 PIT

PA-US



180-164554 Waybill

ORIGIN ID:MOBA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 27OCT7
ACTWGT: 68.15 LB
CAD: 6994562/55
DIMS: 24x13x14
BILL THIRD PAR

TO

TESTAMERICA PITTSBURG LAB
301 ALPHA DRIVE

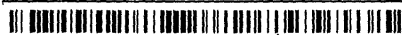
PITTSBURGH PA 15238

(850) 336-0192

REF:

JHU:

DEPT:



Uncorrected temp
Thermometer ID

20.4 °C
22

CF 004 Initials pm

PT-WI-SR-001 effective 11/8/18

FedEx
Express



2 of 5

MPS# 7856 4357 2776

Metr# 7856 4357 2765

0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238

PA-US

PIT



Record

eurofins Environment Testing America

From: [redacted]
To: [redacted]
Email: [redacted]

ORIGIN ID:MOBA (850) 336-0192
TESTAMERICA PITTSBURGH LAB
SEE CHEERS, 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 27OCT29
ACTWGT: 73.45 LB
CAD: 6994562/SSFE244
DIMS: 24x13x14 IN
BILL THIRD PARTY

6020B Custom 14 (App III and IV)
7470 Mercury
90656 Chloride Fluoride Sulfate

TESTAMERICA PITTSBURGH LAB
301 ALPHA DRIVE
PITTSBURGH PA 15238

(850) 336-0192
REF: DEPT:

Uncorrected temp 5.3 °C
Thermometer ID 17
CF -0.4 Initials RO
PT-WI-SR-001 effective 11/8/18



W0	X	X	X
W1	X	X	X
W2	X	X	X
W3	X	X	X
W4	X	X	X
W5	X	X	X
W6	X	X	X
W7	X	X	X
W8	X	X	X
W9	X	X	X

3 of 5
MPS# 0263 7856 4357 2787
Mstr# 7856 4357 2765

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT



Special Instructions/QC Requirements:

Time:	Method of Shipment:
Received by: [Signature]	Date/Time: 10/28/23 0945
Received by:	Date/Time:
Received by:	Date/Time:
Cooler Temperature(s) °C and Other Remarks:	

Ver 01/16/2019

ORIGIN ID:MOBA (850) 336-0192

TESTAMERICA PITTSBURGH LAB
SEE CHECKS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

SHIP DATE: 27OCT23
ACTWGT: 61.35 LB
CAD: 6994562/SSFE2441
DIMS: 24x13x14 IN

BILL THIRD PARTY

Part # 15029/3455 HMOBZ EXP 08/24

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DRIVE

PITTSBURGH PA 15238

(850) 336-0192
TNU:
PO:

REF:

TEMP: 4.2 °C
17

Uncorrected temp
Thermometer ID

CF - 0.4 Initials: RO

PT-WI-SR-001 effective 11/8/18

FedEx
Express



AN10610162034927

4 of 5

MPS# 7856 4357 2798
0263
Mstr# 7856 4357 2765

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

0201

15238
PA-US PIT



TESTAMERICA PITTSBURGH LAB
SEE CHEERS 5 BEFORE BILL
301 ALPHA DR
PITTSBURGH, PA 15238
UNITED STATES US

CAD: 6994562/SSFE2441
DIMS: 24x13x14 IN
BILL THIRD PARTY

TO

TESTAMERICA PITTSBURGH LAB
301 ALPHA DRIVE

PITTSBURGH PA 15238

(850) 336-0182

REF:

(NU)

DEPT:

Uncorrected temp 4.5 °C
Thermometer ID 17

CF -0.4 Initials PD

PT-WI-SR-001 effective 11/8/18

FedEx
Express



5 of 5

MPS# 7856 4357 2802

Mstr# 7856 4357 2765

0201

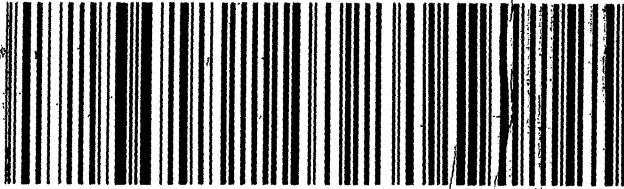
SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238

PA-US

PIT



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Eurofins Pittsburgh

301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler Brown, Shall		Lab PM: Brown, Shall		Carrier Tracking No(s):		COC No: 180-498561 1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: Shall.Brown@et.eurofinsus.com		State of Origin: Mississippi		Page: Page 1 of 1	
Company: Eurofins Environment Testing Southeast				Accreditations Required (See note):				Job #: 180-164554-1	
Address: 5102 LaRoche Avenue, City: Savannah State, Zip: GA, 31404 Phone: 912-354-7858(Tel) 912-352-0165(Fax) Email:		Due Date Requested: 11/13/2023 TAT Requested (days):		Analysis Requested				Preservation Codes. A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify) Other	
Project Name: Plant Daniel NAMU CCR Site:		Project #: 18020047 SSOW#:							
Sample Identification Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, ST=Tissue, A=Air)	
								Special Instructions/Note:	
MW-11 (180-164554-1)		10/27/23		14:30 Central		Water		X	
MW-14 (180-164554-2)		10/27/23		11:25 Central		Water		X	
MW-15 (180-164554-3)		10/27/23		09:10 Central		Water		X	
DUP-04 (180-164554-4)		10/27/23		13:30 Central		Water		X	
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III IV Other (specify)			Primary Deliverable Rank: 2		Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>[Signature]</i>		Date/Time: 10/30/23 1600		Company: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date/Time: 10-31-23	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: 10 18	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: <i>[Signature]</i>					

Eurofins Pittsburgh

301 Alpha Drive RIDC Park
 Pittsburgh, PA 15238
 Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

Client Information (Sub Contract Lab)		Sampler Brown Shali		Lab PM: Brown Shali		Carrier Tracking No(s):		COC No: 180-498561.2																																																			
Client Contact: Shipping/Receiving		Phone:		E-Mail: Shali.Brown@et.eurofinsus.com		State of Origin: Mississippi		Page: Page 2 of 2																																																			
Company: Eurofins Environment Testing Southeast				Accreditations Required (See note):				Job #: 180-164552-1																																																			
Address: 5102 LaRoche Avenue, City: Savannah State, Zip: GA, 31404		Due Date Requested: 11/13/2023		<table border="1"> <thead> <tr> <th colspan="12">Analysis Requested</th> </tr> </thead> <tbody> <tr> <td colspan="12" style="text-align: center;"> Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 6020B/2005A Custom 14 (Applil + App IV) </td> </tr> <tr> <td colspan="12" style="text-align: center;">Total Number of Containers</td> </tr> <tr> <td colspan="12">Special Instructions/Note:</td> </tr> </tbody> </table>						Analysis Requested												Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 6020B/2005A Custom 14 (Applil + App IV)												Total Number of Containers												Special Instructions/Note:												Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)	
Analysis Requested																																																											
Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 6020B/2005A Custom 14 (Applil + App IV)																																																											
Total Number of Containers																																																											
Special Instructions/Note:																																																											
Project Name: Plant Daniel GSA CCR		Project #: 18020047		PO #:		WO #:		Other:																																																			
Site:		SSOW#:																																																									
Sample Identification Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=comp, G=grab)		Matrix (W=water, S=solid, O=waste/oli, BT=Trace, A=Air)																																																			
MW-10 (180-164552-10)		10/26/23		12:21 Central		Water		X																																																			
DUP-03 (180-164552-11)		10/26/23		09:55 Central		Water		X																																																			
DUP-05 (180-164552-12)		10/27/23		09:31 Central		Water		X																																																			
EB-02 (180-164552-13)		10/27/23		08:48 Central		Water		X																																																			
FB-02 (180-164552-14)		10/27/23		08:38 Central		Water		X																																																			
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.																																																											
Possible Hazard Identification Unconfirmed					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																																						
Deliverable Requested: I, II, III IV Other (specify)				Primary Deliverable Rank: 2		Special Instructions/QC Requirements.																																																					
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:																																																					
Relinquished by: <i>[Signature]</i>		Date/Time: 10/30/23 1600		Company: EPC/HANE		Received by: <i>[Signature]</i>		Date/Time: 10-31-23																																																			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time: 10:18																																																			
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:																																																			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.				Cooler Temperature(s) °C and Other Remarks: 2.1 - 2.2																																																					

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Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-164554-1

Login Number: 164554

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Southern Company

Job Number: 180-164554-1

Login Number: 164554

List Number: 2

Creator: Harley, Tynisha

List Source: Eurofins Savannah

List Creation: 10/31/23 12:26 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Low-Flow Test Report:

Test Date / Time: 10/27/2023 12:07:28 PM

Project: Daniel NAMU CCR MW-11

Operator Name: Todd Voreis

Location Name: Daniel NAMU CCR MW-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 30.5 ft Total Depth: 33 ft Initial Depth to Water: 14.53 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 30.5 ft Estimated Total Volume Pumped: 54000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 2.52 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

DUP-04 is CCR

DUP-02 is State

Weather Conditions:

Partly cloudy, 82 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
10/27/2023 12:07 PM	00:00	4.79 pH	23.52 °C	57.70 µS/cm	2.12 mg/L		167.7 mV	14.53 ft	400.00 ml/min
10/27/2023 12:12 PM	05:00	4.78 pH	22.71 °C	59.16 µS/cm	1.61 mg/L	45.60 NTU	164.5 mV	16.57 ft	400.00 ml/min
10/27/2023 12:17 PM	10:00	4.71 pH	22.69 °C	58.28 µS/cm	0.85 mg/L	44.00 NTU	162.1 mV	16.71 ft	400.00 ml/min
10/27/2023 12:22 PM	15:00	4.69 pH	22.46 °C	57.83 µS/cm	0.56 mg/L	34.70 NTU	162.9 mV	16.71 ft	400.00 ml/min
10/27/2023 12:27 PM	20:00	4.68 pH	22.49 °C	57.87 µS/cm	0.43 mg/L	30.70 NTU	161.5 mV	16.72 ft	400.00 ml/min
10/27/2023 12:32 PM	25:00	4.68 pH	22.53 °C	57.87 µS/cm	0.34 mg/L	24.00 NTU	160.0 mV	16.78 ft	400.00 ml/min
10/27/2023 12:37 PM	30:00	4.69 pH	22.62 °C	58.01 µS/cm	0.32 mg/L	20.20 NTU	157.9 mV	16.79 ft	400.00 ml/min
10/27/2023 12:42 PM	35:00	4.68 pH	22.64 °C	58.20 µS/cm	0.30 mg/L	17.60 NTU	156.9 mV	16.82 ft	400.00 ml/min
10/27/2023 12:47 PM	40:00	4.68 pH	22.15 °C	58.08 µS/cm	0.29 mg/L	16.90 NTU	155.8 mV	16.84 ft	400.00 ml/min
10/27/2023 12:52 PM	45:00	4.69 pH	22.08 °C	58.17 µS/cm	0.27 mg/L	13.50 NTU	154.1 mV	16.86 ft	400.00 ml/min
10/27/2023 12:57 PM	50:00	4.68 pH	22.35 °C	58.22 µS/cm	0.25 mg/L	11.50 NTU	152.5 mV	16.88 ft	400.00 ml/min
10/27/2023 1:02 PM	55:00	4.68 pH	22.61 °C	58.12 µS/cm	0.24 mg/L	11.30 NTU	151.2 mV	16.89 ft	400.00 ml/min
10/27/2023 1:07 PM	01:00:00	4.68 pH	22.93 °C	58.33 µS/cm	0.25 mg/L	8.32 NTU	149.7 mV	16.89 ft	400.00 ml/min

10/27/2023 1:12 PM	01:05:00	4.68 pH	22.53 °C	58.20 µS/cm	0.23 mg/L	8.45 NTU	149.2 mV	16.91 ft	400.00 ml/min
10/27/2023 1:17 PM	01:10:00	4.69 pH	22.29 °C	57.96 µS/cm	0.23 mg/L	7.23 NTU	148.3 mV	16.94 ft	400.00 ml/min
10/27/2023 1:22 PM	01:15:00	4.68 pH	22.62 °C	58.40 µS/cm	0.23 mg/L	6.31 NTU	146.4 mV	16.94 ft	400.00 ml/min
10/27/2023 1:27 PM	01:20:00	4.68 pH	22.37 °C	58.00 µS/cm	0.23 mg/L	6.54 NTU	146.2 mV	16.95 ft	400.00 ml/min
10/27/2023 1:32 PM	01:25:00	4.69 pH	22.11 °C	58.05 µS/cm	0.23 mg/L	5.45 NTU	145.2 mV	16.96 ft	400.00 ml/min
10/27/2023 1:37 PM	01:30:00	4.69 pH	22.04 °C	57.96 µS/cm	0.22 mg/L	5.37 NTU	144.3 mV	16.97 ft	400.00 ml/min
10/27/2023 1:42 PM	01:35:00	4.69 pH	22.11 °C	58.00 µS/cm	0.22 mg/L	5.10 NTU	143.2 mV	16.98 ft	400.00 ml/min
10/27/2023 1:47 PM	01:40:00	4.68 pH	22.13 °C	58.13 µS/cm	0.22 mg/L	4.88 NTU	143.1 mV	16.99 ft	400.00 ml/min
10/27/2023 1:52 PM	01:45:00	4.69 pH	22.22 °C	57.92 µS/cm	0.22 mg/L	4.87 NTU	142.0 mV	17.00 ft	400.00 ml/min
10/27/2023 1:57 PM	01:50:00	4.70 pH	22.31 °C	58.07 µS/cm	0.22 mg/L	4.05 NTU	141.0 mV	17.01 ft	400.00 ml/min
10/27/2023 2:02 PM	01:55:00	4.69 pH	22.02 °C	57.93 µS/cm	0.21 mg/L	3.84 NTU	140.5 mV	17.02 ft	400.00 ml/min
10/27/2023 2:07 PM	02:00:00	4.69 pH	22.27 °C	57.93 µS/cm	0.21 mg/L	3.73 NTU	139.7 mV	17.03 ft	400.00 ml/min
10/27/2023 2:12 PM	02:05:00	4.69 pH	22.46 °C	58.10 µS/cm	0.22 mg/L	3.54 NTU	139.1 mV	17.04 ft	400.00 ml/min
10/27/2023 2:17 PM	02:10:00	4.69 pH	22.51 °C	58.04 µS/cm	0.22 mg/L	3.87 NTU	138.2 mV	17.05 ft	400.00 ml/min
10/27/2023 2:22 PM	02:15:00	4.70 pH	22.58 °C	58.06 µS/cm	0.21 mg/L	3.64 NTU	137.4 mV	17.05 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-11	Sample time 1430
DUP-04	Fake sample time 1330
DUP-02	Fake sample time 1330

Low-Flow Test Report:

Test Date / Time: 10/27/2023 9:34:15 AM

Project: Daniel NAMU CCR MW-14

Operator Name: Todd Voreis

Location Name: Daniel NAMU CCR MW-14 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 35.7 ft Total Depth: 40.7 ft Initial Depth to Water: 13.81 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 38.2 ft Estimated Total Volume Pumped: 42000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Sunny, 73 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
10/27/2023 9:34 AM	00:00	4.77 pH	21.37 °C	51.88 µS/cm	4.60 mg/L		142.8 mV	13.81 ft	400.00 ml/min
10/27/2023 9:39 AM	05:00	4.89 pH	21.15 °C	53.82 µS/cm	4.21 mg/L	51.10 NTU	141.6 mV	13.82 ft	400.00 ml/min
10/27/2023 9:44 AM	10:00	4.92 pH	21.15 °C	54.12 µS/cm	4.20 mg/L	51.90 NTU	142.6 mV	13.82 ft	400.00 ml/min
10/27/2023 9:49 AM	15:00	4.92 pH	21.18 °C	53.90 µS/cm	4.20 mg/L	39.30 NTU	142.9 mV	13.82 ft	400.00 ml/min
10/27/2023 9:54 AM	20:00	4.90 pH	21.15 °C	53.75 µS/cm	4.23 mg/L	28.90 NTU	143.4 mV	13.82 ft	400.00 ml/min
10/27/2023 9:59 AM	25:00	4.90 pH	21.20 °C	53.40 µS/cm	4.25 mg/L	22.40 NTU	144.2 mV	13.82 ft	400.00 ml/min
10/27/2023 10:04 AM	30:00	4.87 pH	21.22 °C	53.05 µS/cm	4.26 mg/L	17.60 NTU	145.0 mV	13.82 ft	400.00 ml/min
10/27/2023 10:09 AM	35:00	4.86 pH	21.23 °C	52.81 µS/cm	4.26 mg/L	15.50 NTU	145.1 mV	13.82 ft	400.00 ml/min
10/27/2023 10:14 AM	40:00	4.85 pH	21.28 °C	52.83 µS/cm	4.27 mg/L	13.40 NTU	145.7 mV	13.82 ft	400.00 ml/min
10/27/2023 10:19 AM	45:00	4.85 pH	21.28 °C	52.55 µS/cm	4.27 mg/L	11.20 NTU	146.2 mV	13.82 ft	400.00 ml/min
10/27/2023 10:24 AM	50:00	4.84 pH	21.33 °C	52.43 µS/cm	4.28 mg/L	10.30 NTU	146.8 mV	13.82 ft	400.00 ml/min
10/27/2023 10:29 AM	55:00	4.83 pH	21.37 °C	52.35 µS/cm	4.28 mg/L	7.40 NTU	147.7 mV	13.82 ft	400.00 ml/min
10/27/2023 10:34 AM	01:00:00	4.82 pH	21.39 °C	52.30 µS/cm	4.28 mg/L	7.44 NTU	148.3 mV	13.82 ft	400.00 ml/min

10/27/2023 10:39 AM	01:05:00	4.83 pH	21.43 °C	52.25 µS/cm	4.28 mg/L	6.68 NTU	148.6 mV	13.82 ft	400.00 ml/min
10/27/2023 10:44 AM	01:10:00	4.83 pH	21.42 °C	52.12 µS/cm	4.29 mg/L	5.73 NTU	148.9 mV	13.82 ft	400.00 ml/min
10/27/2023 10:49 AM	01:15:00	4.82 pH	21.50 °C	52.10 µS/cm	4.29 mg/L	5.54 NTU	149.7 mV	13.82 ft	400.00 ml/min
10/27/2023 10:54 AM	01:20:00	4.82 pH	21.53 °C	52.04 µS/cm	4.28 mg/L	5.57 NTU	150.0 mV	13.82 ft	400.00 ml/min
10/27/2023 10:59 AM	01:25:00	4.82 pH	21.55 °C	52.11 µS/cm	4.29 mg/L	5.25 NTU	150.3 mV	13.82 ft	400.00 ml/min
10/27/2023 11:04 AM	01:30:00	4.82 pH	21.55 °C	52.00 µS/cm	4.29 mg/L	4.91 NTU	150.6 mV	13.82 ft	400.00 ml/min
10/27/2023 11:09 AM	01:35:00	4.82 pH	21.47 °C	51.96 µS/cm	4.29 mg/L	4.47 NTU	151.3 mV	13.82 ft	400.00 ml/min
10/27/2023 11:14 AM	01:40:00	4.81 pH	21.47 °C	51.90 µS/cm	4.29 mg/L	4.53 NTU	151.9 mV	13.82 ft	400.00 ml/min
10/27/2023 11:19 AM	01:45:00	4.80 pH	21.57 °C	52.01 µS/cm	4.29 mg/L	4.33 NTU	152.5 mV	13.82 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-14	Sample time 1125

Low-Flow Test Report:

Test Date / Time: 10/27/2023 8:15:09 AM

Project: Daniel NAMU CCR MW-15

Operator Name: Todd Voreis

<p>Location Name: Daniel NAMU CCR MW-15 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft ✂ Top of Screen: 34.5 ft 37 ft Total Depth: 39.5 ft Initial Depth to Water: 13.06 ft</p>	<p>Pump Type: BP Tubing Type: PE Pump Intake From TOC: 34.5 ft Estimated Total Volume Pumped: 20000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.04 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 852546</p>
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Test Notes:

Weather Conditions:

Sunny, 67 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
10/27/2023 8:15 AM	00:00	5.62 pH	21.01 °C	37.26 µS/cm	5.50 mg/L		99.8 mV	13.06 ft	400.00 ml/min
10/27/2023 8:20 AM	05:00	4.62 pH	21.46 °C	48.98 µS/cm	3.42 mg/L	7.95 NTU	99.6 mV	13.10 ft	400.00 ml/min
10/27/2023 8:25 AM	10:00	4.59 pH	21.47 °C	49.49 µS/cm	3.28 mg/L	7.55 NTU	103.4 mV	13.10 ft	400.00 ml/min
10/27/2023 8:30 AM	15:00	4.60 pH	21.44 °C	49.52 µS/cm	3.29 mg/L	5.78 NTU	105.9 mV	13.10 ft	400.00 ml/min
10/27/2023 8:35 AM	20:00	4.58 pH	21.46 °C	49.55 µS/cm	3.29 mg/L	4.39 NTU	109.5 mV	13.10 ft	400.00 ml/min
10/27/2023 8:40 AM	25:00	4.58 pH	21.46 °C	49.53 µS/cm	3.30 mg/L	4.32 NTU	112.2 mV	13.10 ft	400.00 ml/min
10/27/2023 8:45 AM	30:00	4.59 pH	21.46 °C	49.55 µS/cm	3.29 mg/L	3.06 NTU	113.8 mV	2.15 ft	400.00 ml/min
10/27/2023 8:50 AM	35:00	4.58 pH	21.50 °C	49.56 µS/cm	3.29 mg/L	2.15 NTU	116.3 mV	13.10 ft	400.00 ml/min
10/27/2023 8:55 AM	40:00	4.60 pH	21.51 °C	49.59 µS/cm	3.28 mg/L	1.87 NTU	117.1 mV	13.10 ft	400.00 ml/min
10/27/2023 9:00 AM	45:00	4.60 pH	21.50 °C	49.59 µS/cm	3.28 mg/L	1.53 NTU	119.2 mV	13.10 ft	400.00 ml/min
10/27/2023 9:05 AM	50:00	4.59 pH	21.55 °C	49.59 µS/cm	3.29 mg/L	1.36 NTU	121.7 mV	13.10 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-15	Sample time 0910

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Daniel- Correction on MW-15!!!!!!!!!!

1 message

Laura Hagendorfer <laura.rdhenv@gmail.com>
To: Laura Hagendorfer <laura.rdhenv@gmail.com>

Fri, Oct 27, 2023 at 11:38 AM

On the log for Daniel NAMU CCR MW-15, the pump intake from TOC should be 37, not 34.5. I entered it wrong.
From Todd 10/26/23

Low-Flow Test Report:

Test Date / Time: 10/27/2023 5:41:03 PM

Project: Daniel NAMU CCR MW-16

Operator Name: Todd Voreis

Location Name: Daniel NAMU CCR MW-16 Well Diameter: 2 cm Casing Type: PVC Screen Length: 5 m Top of Screen: 23.3 m Total Depth: 28.3 m Initial Depth to Water: 11.1 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 25.8 ft Estimated Total Volume Pumped: 6000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.01 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Mostly cloudy, 77 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
10/27/2023 5:41 PM	00:00	4.56 pH	23.99 °C	55.64 µS/cm	3.65 mg/L		146.9 mV	11.10 ft	400.00 ml/min
10/27/2023 5:46 PM	05:00	4.47 pH	23.15 °C	56.84 µS/cm	0.24 mg/L	5.45 NTU	141.1 mV	11.11 ft	400.00 ml/min
10/27/2023 5:51 PM	10:00	4.46 pH	23.07 °C	56.85 µS/cm	0.21 mg/L	2.97 NTU	140.9 mV	11.11 ft	400.00 ml/min
10/27/2023 5:56 PM	15:00	4.47 pH	23.00 °C	56.81 µS/cm	0.21 mg/L	1.23 NTU	141.2 mV	11.11 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-16	Sample time 1800

Low-Flow Test Report:

Test Date / Time: 10/27/2023 4:37:12 PM

Project: Daniel NAMU CCR MW-17

Operator Name: Todd Voreis

Location Name: Daniel NAMU CCR MW-17 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 23.5 ft Total Depth: 28.5 ft Initial Depth to Water: 8.41 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 14000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 852546
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Test Notes:

Weather Conditions:

Mostly cloudy, 81 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
10/27/2023 4:37 PM	00:00	4.68 pH	24.57 °C	41.45 µS/cm	1.62 mg/L		158.4 mV	8.41 ft	400.00 ml/min
10/27/2023 4:42 PM	05:00	4.79 pH	23.57 °C	42.80 µS/cm	0.31 mg/L	1.56 NTU	146.9 mV	8.41 ft	400.00 ml/min
10/27/2023 4:47 PM	10:00	4.81 pH	23.37 °C	42.84 µS/cm	0.25 mg/L	1.02 NTU	142.8 mV	8.41 ft	400.00 ml/min
10/27/2023 4:52 PM	15:00	4.81 pH	23.35 °C	42.82 µS/cm	0.23 mg/L	0.80 NTU	139.0 mV	8.41 ft	400.00 ml/min
10/27/2023 4:57 PM	20:00	4.81 pH	23.30 °C	42.88 µS/cm	0.23 mg/L	0.87 NTU	136.2 mV	8.41 ft	400.00 ml/min
10/27/2023 5:02 PM	25:00	4.82 pH	23.07 °C	42.71 µS/cm	0.22 mg/L	0.45 NTU	133.3 mV	8.41 ft	400.00 ml/min
10/27/2023 5:07 PM	30:00	4.81 pH	23.16 °C	42.72 µS/cm	0.21 mg/L	0.52 NTU	131.5 mV	8.41 ft	400.00 ml/min
10/27/2023 5:12 PM	35:00	4.82 pH	22.98 °C	42.67 µS/cm	0.21 mg/L	0.75 NTU	128.9 mV	8.41 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-17	Sample time 1717

Low-Flow Test Report:

Test Date / Time: 10/30/2023 8:00:58 AM

Project: Daniel NAMU CCR MW-18

Operator Name: Rick Hagendorfer

Location Name: Daniel NAMU CCR MW-18 Well Diameter: 2 in Casing Type: PVC Screen Length: 5 ft Top of Screen: 39.4 ft Total Depth: 44.4 ft Initial Depth to Water: 18.23 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 41.9 ft Estimated Total Volume Pumped: 10000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.03 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1055720
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Test Notes:

Weather Conditions:

Foggy 65

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
10/30/2023 8:00 AM	00:00	3.90 pH	21.12 °C	49.68 µS/cm	6.72 mg/L		138.3 mV	18.23 ft	400.00 ml/min
10/30/2023 8:05 AM	05:00	4.51 pH	20.93 °C	43.48 µS/cm	0.43 mg/L	0.30 NTU	90.9 mV	18.26 ft	400.00 ml/min
10/30/2023 8:10 AM	10:00	4.55 pH	20.89 °C	43.23 µS/cm	0.22 mg/L	0.27 NTU	90.5 mV	18.26 ft	400.00 ml/min
10/30/2023 8:15 AM	15:00	4.59 pH	20.93 °C	43.18 µS/cm	0.19 mg/L	0.31 NTU	73.4 mV	18.26 ft	400.00 ml/min
10/30/2023 8:20 AM	20:00	4.61 pH	20.89 °C	43.24 µS/cm	0.17 mg/L	0.35 NTU	68.7 mV	18.26 ft	400.00 ml/min
10/30/2023 8:25 AM	25:00	4.64 pH	20.89 °C	43.18 µS/cm	0.16 mg/L	0.28 NTU	64.9 mV	18.26 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-18	Sample time 0828

Low-Flow Test Report:

Test Date / Time: 10/30/2023 10:40:14 AM

Project: Daniel NAMU CCR MW-19

Operator Name: Rick Hagendorfer

Location Name: Daniel NAMU CCR MW-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.4 ft Total Depth: 32.4 ft Initial Depth to Water: 20.04 ft	Pump Type: BP Tubing Type: PE Pump Intake From TOC: 27.4 ft Estimated Total Volume Pumped: 16000 ml Flow Cell Volume: 90 ml Final Flow Rate: 400 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 400 Serial Number: 1055720
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Test Notes:

Weather Conditions:

Cloudy 73

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.2	+/- 0.2	+/- 5 %	+/- 0.2	+/- 10	+/- 20	+/- 0.3	
10/30/2023 10:40 AM	00:00	5.04 pH	22.72 °C	39.77 µS/cm	7.97 mg/L		101.6 mV	20.04 ft	400.00 ml/min
10/30/2023 10:45 AM	05:00	5.34 pH	22.41 °C	60.33 µS/cm	0.47 mg/L	1.16 NTU	79.9 mV	20.13 ft	400.00 ml/min
10/30/2023 10:50 AM	10:00	5.21 pH	22.37 °C	48.25 µS/cm	0.21 mg/L	1.00 NTU	66.9 mV	20.13 ft	400.00 ml/min
10/30/2023 10:55 AM	15:00	5.12 pH	22.42 °C	42.17 µS/cm	0.17 mg/L	1.02 NTU	51.2 mV	20.13 ft	400.00 ml/min
10/30/2023 11:00 AM	20:00	5.06 pH	22.44 °C	39.51 µS/cm	0.16 mg/L	0.97 NTU	48.0 mV	20.13 ft	400.00 ml/min
10/30/2023 11:05 AM	25:00	5.06 pH	22.44 °C	39.24 µS/cm	0.15 mg/L	0.99 NTU	41.0 mV	20.13 ft	400.00 ml/min
10/30/2023 11:10 AM	30:00	5.03 pH	22.48 °C	38.21 µS/cm	0.14 mg/L	1.03 NTU	38.1 mV	20.13 ft	400.00 ml/min
10/30/2023 11:15 AM	35:00	4.98 pH	22.50 °C	37.52 µS/cm	0.14 mg/L	0.97 NTU	36.9 mV	20.13 ft	400.00 ml/min
10/30/2023 11:20 AM	40:00	5.01 pH	22.54 °C	37.69 µS/cm	0.14 mg/L	0.98 NTU	33.3 mV	20.13 ft	400.00 ml/min

Samples

Sample ID:	Description:
MW-19	Sample time 1124

Dup-06	Fake sample time 1024 CCR
Dup-03	Fake sample time 1024 state
EB-03	Sample time 1036
FB-03	Sample time 1057

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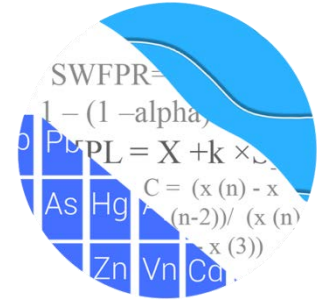
Appendix B

1st
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING

June 9, 2023

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Daniel North Ash Management Unit (NAMU)
Statistical Analysis – April 2023

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the 2023 Groundwater Monitoring Annual report for Mississippi Power Company’s Plant Daniel NAMU. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at Daniel NAMU for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** MW-11, MW-14, and MW-18
- **Downgradient wells:** MW-15, MW-16, MW-17, and MW-19

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

The CCR program monitors the constituents listed below. The terms “parameters” and “constituents” are used interchangeably throughout this report.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of well/constituent pairs containing 100% non-detects follow this letter.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. For calculating intrawell prediction limits, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case.

Time series plots for Appendix III parameters are provided for all wells and are used to evaluate concentrations over time as well as for the purpose of updating statistical limits (Figure A). Additionally, box plots are included for all constituents at upgradient and downgradient wells (Figure B). Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graph; however, no values were flagged as outliers (Figure C). 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.

During the previous screening, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods were recommended. Power curves were provided with the screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance recommendations as discussed below.

Summary of Statistical Methods

Based on the evaluation for federal regulatory requirements, the following methods were selected for Appendix III constituents:

- Intrawell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended

by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

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

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as the original reporting limit.

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 intrawell case, data for all wells and constituents are re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. While this was 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.

Two-Step Statistical Analysis

Intrawell statistical methods, combined with a 1-of-2 resample plan, may be used as a conservative first step for identifying potential facility impacts in downgradient wells. Intrawell methods use background data for individual wells and may be overly sensitive to natural variation. In particular for nonparametric limits with small background sample

sizes, the probability of a false positive is much higher than the desired annual sitewide rate of 10%. Therefore, a large number of exceedances may occur as a result of natural variation rather than facility impacts. A second step can be used to further evaluate those exceedances and reduce the overall number of SSIs that result from natural variation. In instances where intrawell statistical methods identify an apparent SSI, a second step of interwell statistical evaluation may be used to determine whether the measurement exceeds the sitewide background limit based on pooled upgradient well data. This is similar in concept to the procedure used in compliance monitoring programs where an interwell statistical limit is used to determine "background" (USEPA Unified Guidance (2009), Chapter 7, Section 7.5). For the detection monitoring program, if the result does not exceed sitewide (interwell) background, an SSI is not declared.

When the result exceeds the sitewide (interwell) background, the 1-of-2 resample plan allows for collection of an independent resample to confirm or disconfirm the initial finding. A statistically significant increase is not declared unless the resample also exceeds the intrawell prediction limit (United States Environmental Protection Agency (USEPA) Unified Guidance, March 2009, Chapter 19). When the resample confirms the initial exceedance, 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). When any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. In cases where intrawell and interwell exceedances are noted and no resamples are collected, the initial exceedance will be considered a confirmed statistically significant increase (SSI).

Trend tests, in addition to interwell prediction limits, are recommended for well/constituent pairs found to have an initial intrawell SSI. Trend analysis will provide for detection of long-term changes and potential facility impacts at a given well in cases where the concentrations at that well remain below the sitewide upgradient limits. Thus, the two-step approach has additional capability to detect long-term changes at downgradient wells compared to interwell methods alone. While a trend may be identified by visual inspection, a quantification of the trend and its significance is needed to identify whether concentrations are statistically significantly increasing, decreasing, or remaining stable over time. The absence of a statistically significant increasing trend indicates that an initial intrawell exceedance is short-term and may be the result of natural variation rather than facility impact to groundwater. If a facility impact has occurred, it will likely result in additional exceedances in future sampling events. When a statistically significant increasing trend is noted, additional data may be needed to demonstrate that there is reasonable evidence that the initial intrawell statistical exceedance is a result of natural variation rather than a result of impact to groundwater quality downgradient of the facility.

Summary of Background Screening – Conducted in October 2017

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

No suspected outliers were observed in any of the data sets for Appendix III parameters. When any values are identified as outliers, they are plotted in a lighter font on the time series graph.

Seasonality

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a few statistically significant decreasing and increasing trends. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to any of the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified variation among upgradient well data at Plant Daniel NAMU for the majority of the Appendix III parameters. This facility is a lined unit with pre-waste data; therefore, due to variation noted among upgradient wells, intrawell prediction limits were recommended for this facility to accommodate the groundwater quality. A summary table of the ANOVA results was included with the screening.

Summary of Background Update – Appendix III Parameters – November 2019

Prior to updating background data, samples were re-evaluated for Appendix III constituents at all wells using Tukey's outlier test and visual screening on all historical data through the April 2019 sample event. Only one value was noted by Tukey's as a potential outlier; however, when Tukey's outlier test detects an outlier for the most recent sample, it often will not be flagged in the event that the data precede a trend that is more representative of current concentrations. Therefore, no values for Appendix III constituents were flagged as outliers at the time of the screening. An updated summary of Tukey's test results was included with the screening.

The Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through June 2017 to the new compliance samples at each well through April 2019 to evaluate whether the groups are statistically different at the 99% confidence level for each of the Appendix III parameters. When no differences exist, background data sets may be updated to include newer data for construction of prediction limits. This results in statistical limits that are representative of present-day conditions. No statistically significant differences were found between the two groups except for the following: calcium and sulfate in well MW-15. Note that the Mann-Whitney test could not be produced due to insufficient variation in the data for boron in wells MW-14, MW-15, MW-16, MW-17, and MW-19.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background are not updated to include the newer data but will be reconsidered in the future. For all well/constituent pairs except for sulfate in well MW-15, due to the limited data available and the variability in data shows some of the more recent data has similar concentrations to those reported in background, these data sets were updated. In the case of calcium at well MW-15, while there is a statistically significant difference between the two medians, the magnitude of the difference is minimal, and newer data more accurately represent concentrations present in nearby wells. Therefore, the background for this well/constituent pair was updated with new data. A summary of these results was included in the 2019 Background Update report.

Summary of Background Update – Appendix III Parameters – March 2022

Outlier Analysis

Prior to updating background data, samples were re-evaluated for Appendix III constituents at all wells using Tukey's outlier test and visual screening on all historical data through the March 2022 sample event. A few values were noted by Tukey's as potential outliers; however, these values were not drastically different than concentrations within the respective wells and were not flagged as outliers. Additionally, when Tukey's outlier test detects an outlier for the most recent sample, it often will not be flagged in the event that the reported concentration precedes a trend that is more representative of current concentrations. No values for Appendix III constituents were flagged as outliers at this time. The Tukey's test results were included with the update.

Mann-Whitney Test of Medians

The Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through April 2019 to the new compliance samples at each well through October 2021 to evaluate whether the groups are statistically different at the 99% confidence level for each of the Appendix III parameters. When no differences exist, background data sets may be updated to include newer data for construction of prediction limits. This results in statistical limits that are representative of present-day conditions. Statistically significant differences were found between the two groups except for the following:

Increase:

- Calcium: MW-19

Decrease:

- Calcium: MW-14 (upgradient)
- Chloride: MW-14 and MW-18 (both upgradient)
- Fluoride: MW-19
- Sulfate: MW-11 (upgradient) and MW-15

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background are not updated to include the newer data but will be reconsidered in the future. For all well/constituent pairs with decreasing medians, these records were updated with more recent compliance measurements since reported concentrations are similar to those reported historically. In the case of fluoride in downgradient well MW-19, the significant difference resulted from reported trace values compared to reported non-detects in the record.

For the statistically significant increasing median identified in well MW-19, while a portion of the more recent concentrations remain below historical upgradient concentrations, the most recent compliance samples indicate an increase that would result in an elevated intrawell prediction limit. Therefore, this record was not updated at this time. This step results in construction of a statistical limit that is conservative (i.e., lower) from a regulatory perspective. A summary of the date range used for this well/constituent pair follows this report.

Statistical Analysis of Appendix III Parameters – April 2023

Intrawell Prediction Limits

Intrawell prediction limits, combined with a 1-of-2 resample strategy, were established for each of the Appendix III parameters at each well using historical data through October 2021 for comparison of the April 2023 samples (Figure D). Intrawell prediction limits use screened historical data within a given well to establish limits for parameters at the same well. The April 2023 samples from each well were compared to the prediction limits to determine whether initial exceedances are present. Note that during this event, the reporting limit for boron increased from 0.0601 mg/L to 0.1 mg/L at wells MW-11, MW-14, and MW-15. No significant changes occurred as a result of the reporting limit increase since no recent detections have been detected above the reporting limit in any of these wells.

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 the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary. Complete graphical results of the prediction limits may be found following this letter. Exceedances were identified for the following well/constituent pairs:

- Calcium: MW-19
- pH: MW-19
- Sulfate: MW-18 (upgradient)
- TDS: MW-19

Two-Step Analysis

Following the two-step analysis procedure, interwell prediction limits were then constructed using pooled upgradient well data to evaluate the apparent intrawell prediction limit exceedances among downgradient wells (Figure E). Exceedances were identified for the following well/constituent pairs:

- Calcium: MW-19
- pH: MW-19
- TDS: MW-19

Trend Test Evaluation

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 at the 99% confidence level (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. The existence of similar trends in both upgradient and downgradient wells is an indication of natural variability in groundwater that is unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs which is an indication of naturally changing groundwater quality:

Increasing:

- Calcium: MW-19

Decreasing:

- Calcium: MW-14 and MW-18 (both upgradient)
- pH: MW-14 (upgradient)
- Sulfate: MW-11 (upgradient)

Resample Reports – May 2023

Resample data were collected in May 2023 for Appendix III parameters in downgradient well MW-19. Intrawell prediction limits were constructed using background data through October 2021 to compare the May 2023 resamples for all Appendix III parameters at well MW-19 (Figure G). Note that the reporting limit for boron at well MW-19 is 0.08 mg/L during the May 2023 event and the May 2023 observation is non-detect. Exceedances were identified for the following well/constituent pairs:

- Calcium: MW-19
- Chloride: MW-19

Following the two-step analysis procedure, interwell prediction limits was constructed for calcium and chloride at GWC-23 using upgradient well data through April 2023 (Figure H). No exceedances were noted; therefore, no further action was required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Daniel North Ash Management Unit. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins
Project Manager



Kristina L. Rayner
Senior Statistician

100% Non-Detects

Analysis Run 5/9/2023 5:16 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Boron (mg/L)
MW-16, MW-17

Date Ranges

Date: 5/9/2023 5:14 PM

Plant Daniel Client: Southern Company Data: NAMU CCR

Calcium (mg/L)

MW-19 background:9/12/2016-4/22/2019

Appendix III Intrawell Prediction Limits - Significant Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/9/2023, 5:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	0.8608	n/a	4/20/2023	15.4	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
pH (SU)	MW-19	5.525	4.715	4/20/2023	6.06	Yes	18	5.12	0.1992	0	None	No	0.0009398	Param Intra 1 of 2
Sulfate (mg/L)	MW-18	4.898	n/a	4/19/2023	7.48	Yes	17	3.696	0.585	5.882	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-19	43.34	n/a	4/20/2023	66	Yes	17	22.09	10.35	5.882	None	No	0.00188	Param Intra 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/9/2023, 5:26 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)	MW-11	0.103	n/a	4/19/2023	0.1ND	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-14	0.1	n/a	4/19/2023	0.1ND	No	17	n/a	n/a	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-15	0.1	n/a	4/19/2023	0.1ND	No	17	n/a	n/a	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-18	0.0601	n/a	4/19/2023	0.0256J	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-19	0.0601	n/a	4/20/2023	0.0318J	No	17	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Calcium (mg/L)	MW-11	2.125	n/a	4/19/2023	1.65	No	17	24.35	9.256	5.882	None	x^5	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-14	5.702	n/a	4/19/2023	2.63	No	17	3.406	1.117	5.882	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-15	1.597	n/a	4/19/2023	0.682	No	17	1.187	0.2	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-16	1.146	n/a	4/20/2023	1.07	No	18	0.8117	0.1645	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-17	1.27	n/a	4/20/2023	0.855	No	17	0.01917	0.1071	0	None	ln(x)	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-18	0.9976	n/a	4/19/2023	0.368J	No	17	0.6866	0.1514	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-19	0.8608	n/a	4/20/2023	15.4	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-11	16.08	n/a	4/19/2023	12.2	No	32	12.44	1.948	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-14	12.3	n/a	4/19/2023	10.2	No	17	8.927	1.643	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-15	10.02	n/a	4/19/2023	5.21	No	17	7.922	1.023	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-16	10.07	n/a	4/20/2023	10	No	19	7.533	1.263	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-17	8.234	n/a	4/20/2023	5.73	No	17	6.738	0.7281	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-18	11.16	n/a	4/19/2023	5.08	No	17	8	1.54	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-19	5.802	n/a	4/20/2023	4.84	No	17	706.2	208.1	5.882	None	x^4	0.00188	Param Intra 1 of 2
Fluoride (mg/L)	MW-11	0.1	n/a	4/19/2023	0.0416J	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Fluoride (mg/L)	MW-14	0.0411	n/a	4/19/2023	0.0415J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-15	0.0484	n/a	4/19/2023	0.0275J	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-16	0.0496	n/a	4/20/2023	0.0322J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-17	0.0511	n/a	4/20/2023	0.0271J	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-18	0.0764	n/a	4/19/2023	0.0297J	No	17	n/a	n/a	64.71	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-19	0.0382	n/a	4/20/2023	0.0566J	No	17	n/a	n/a	82.35	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (SU)	MW-11	4.927	4.479	4/19/2023	4.61	No	18	4.703	0.1101	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-14	5.519	4.651	4/19/2023	4.8	No	17	5.085	0.2112	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-15	5.006	4.405	4/19/2023	4.7	No	17	4.705	0.1462	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-16	4.808	4.41	4/20/2023	4.5	No	17	4.609	0.09695	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-17	5.314	4.695	4/20/2023	4.79	No	17	1.71	0.0172	0	None	x^(1/3)	0.0009398	Param Intra 1 of 2
pH (SU)	MW-18	4.833	4.445	4/19/2023	4.65	No	16	4.639	0.09337	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-19	5.525	4.715	4/20/2023	6.06	Yes	18	5.12	0.1992	0	None	No	0.0009398	Param Intra 1 of 2
Sulfate (mg/L)	MW-11	10.47	n/a	4/19/2023	2.85	No	32	1.364	0.5266	15.63	Kaplan-Meier	ln(x)	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-14	2.474	n/a	4/19/2023	1.93	No	17	2.586	1.72	29.41	Kaplan-Meier	x^2	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-15	3.38	n/a	4/19/2023	2.42	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	MW-16	5	n/a	4/20/2023	2.59	No	17	n/a	n/a	47.06	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Sulfate (mg/L)	MW-17	3.508	n/a	4/20/2023	3.44	No	17	2.304	0.5866	11.76	None	No	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-18	4.898	n/a	4/19/2023	7.48	Yes	17	3.696	0.585	5.882	None	No	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-19	5	n/a	4/20/2023	3.73	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	MW-11	76.12	n/a	4/19/2023	67	No	17	44	15.64	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-14	67.34	n/a	4/19/2023	41	No	17	36.35	15.09	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-15	54.62	n/a	4/19/2023	31	No	18	27.33	13.43	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-16	59.48	n/a	4/20/2023	37	No	17	24.46	17.05	17.65	Kaplan-Meier	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-17	43.75	n/a	4/20/2023	30	No	17	25.75	8.766	5.882	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-18	46.41	n/a	4/19/2023	29	No	17	26.88	9.506	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-19	43.34	n/a	4/20/2023	66	Yes	17	22.09	10.35	5.882	None	No	0.00188	Param Intra 1 of 2

Appendix III Interwell Prediction Limits - Two-Step - All/Significant Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/12/2023, 8:14 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	4.531	n/a	4/20/2023	15.4	Yes	60	1.32	0.4539	3.333	None	sqrt(x)	0.00188	Param Inter 1 of 2
pH (SU)	MW-19	5.65	4.45	4/20/2023	6.06	Yes	60	n/a	n/a	0	n/a	n/a	0.001049	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	MW-19	64.48	n/a	4/20/2023	66	Yes	60	37.22	15.3	0	None	No	0.00188	Param Inter 1 of 2

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/12/2023, 10:31 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	MW-14 (bg)	-0.363	-133	-81	Yes	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-18 (bg)	-0.07165	-129	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-19	0.2253	90	81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	MW-14 (bg)	-0.04668	-92	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-11 (bg)	-0.2485	-251	-184	Yes	35	14.29	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/12/2023, 10:31 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	MW-11 (bg)	0	-11	-81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-14 (bg)	-0.363	-133	-81	Yes	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-18 (bg)	-0.07165	-129	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-19	0.2253	90	81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	MW-11 (bg)	-0.01735	-60	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	MW-14 (bg)	-0.04668	-92	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	MW-18 (bg)	0.01861	67	74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	MW-19	0.04749	44	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-11 (bg)	-0.2485	-251	-184	Yes	35	14.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-14 (bg)	0.04357	39	81	No	20	30	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-18 (bg)	0.2127	52	81	No	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-11 (bg)	1.963	49	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-14 (bg)	0.5865	13	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-18 (bg)	0.3801	24	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-19	3.324	79	81	No	20	5	n/a	n/a	0.01	NP

Intrawell Prediction Limits - May 2023 Resample (Significant Results)

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 6/8/2023, 3:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	0.8608	n/a	5/24/2023	1.7	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-19	5.802	n/a	5/24/2023	6.84	Yes	17	706.2	208.1	5.882	None	x^4	0.00188	Param Intra 1 of 2

Intrawell Prediction Limits - May 2023 Resample (All Results)

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 6/8/2023, 3:38 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)	MW-19	0.08	n/a	5/24/2023	0.08ND	No	17	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Calcium (mg/L)	MW-19	0.8608	n/a	5/24/2023	1.7	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-19	5.802	n/a	5/24/2023	6.84	Yes	17	706.2	208.1	5.882	None	x^4	0.00188	Param Intra 1 of 2
Fluoride (mg/L)	MW-19	0.0382	n/a	5/24/2023	0.0849J	No	17	n/a	n/a	82.35	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (SU)	MW-19	5.525	4.715	5/24/2023	5.15	No	18	5.12	0.1992	0	None	No	0.0009398	Param Intra 1 of 2
Sulfate (mg/L)	MW-19	5	n/a	5/24/2023	2.62	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	MW-19	43.34	n/a	5/24/2023	32	No	17	22.09	10.35	5.882	None	No	0.00188	Param Intra 1 of 2

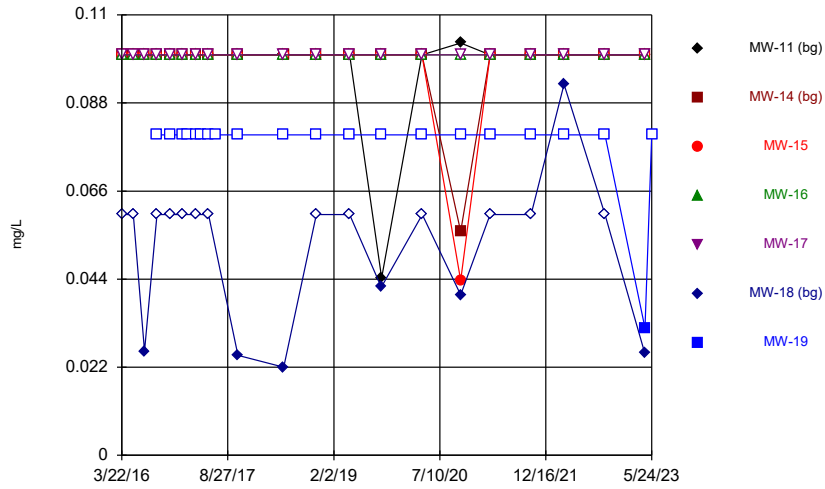
Interwell Prediction Limits - Two-Step - May 2023 Resample (No Significant)

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 6/8/2023, 3:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	4.531	n/a	5/24/2023	1.7	No	60	1.32	0.4539	3.333	None	sqrt(x)	0.00188	Param Inter 1 of 2
Chloride (mg/L)	MW-19	15.13	n/a	5/24/2023	6.84	No	75	10.26	2.757	0	None	No	0.00188	Param Inter 1 of 2

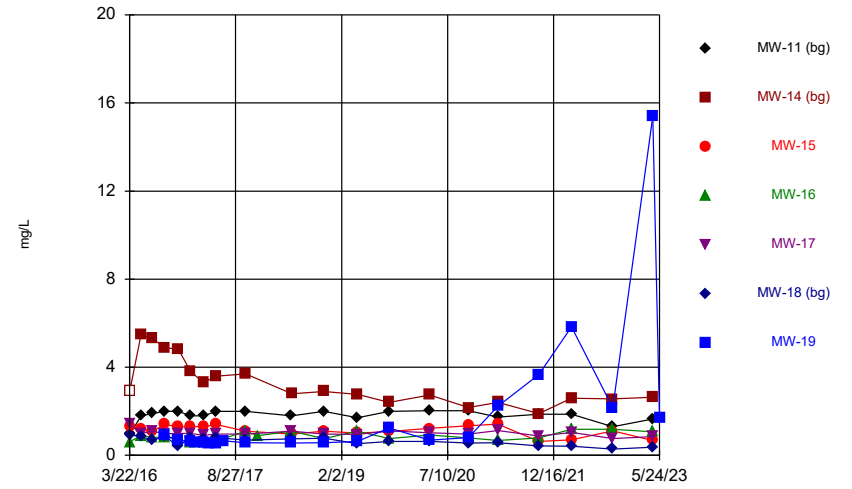
FIGURE A.

Time Series



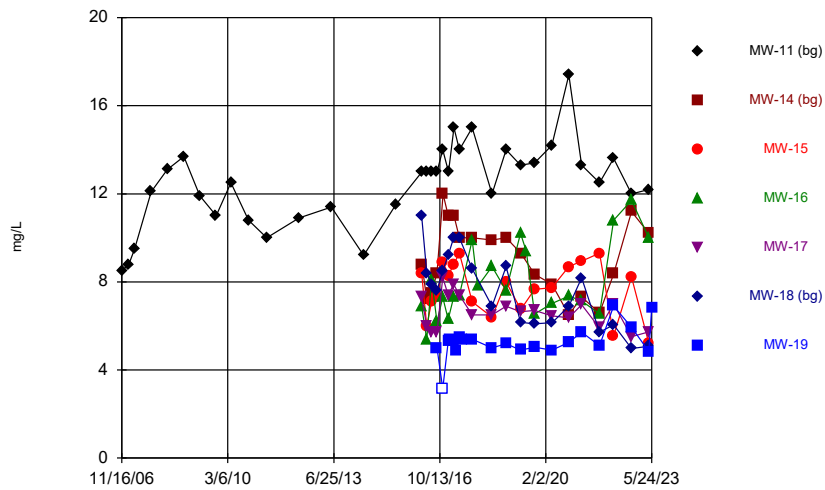
Constituent: Boron Analysis Run 6/8/2023 3:25 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series



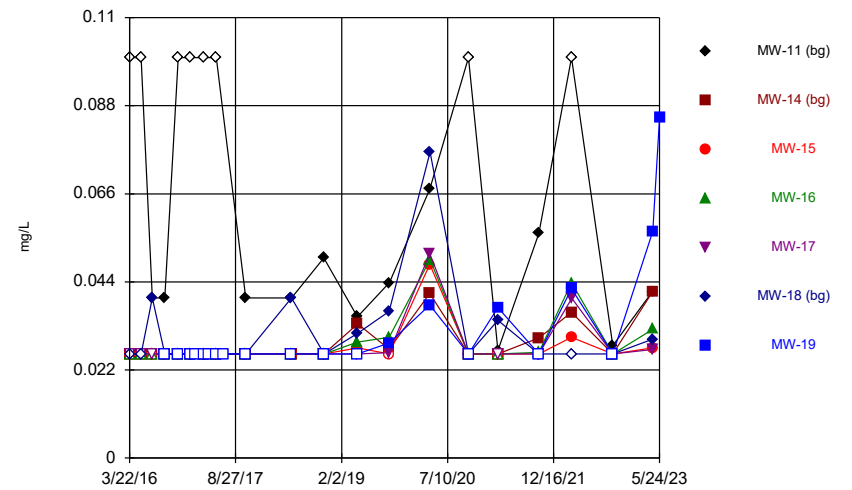
Constituent: Calcium Analysis Run 6/8/2023 3:25 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series



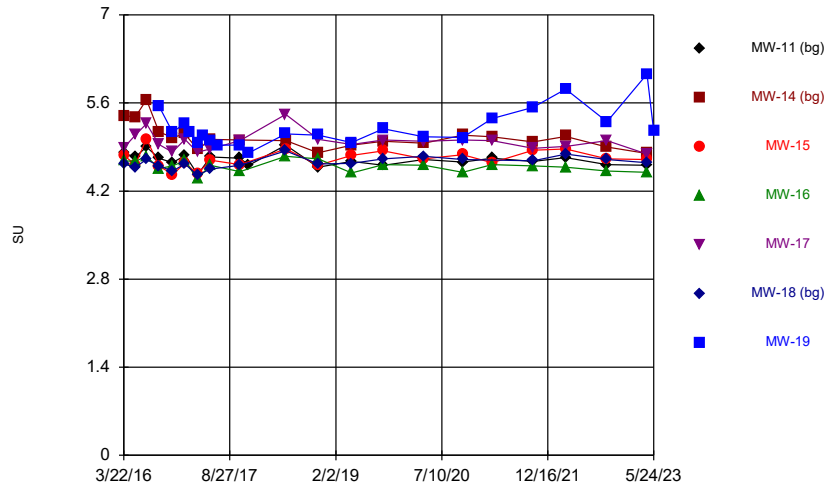
Constituent: Chloride Analysis Run 6/8/2023 3:25 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series



Constituent: Fluoride Analysis Run 6/8/2023 3:26 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

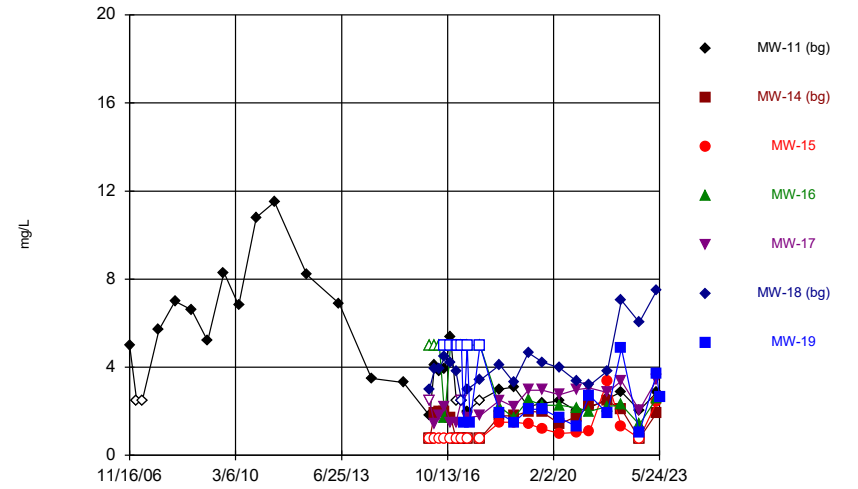
Time Series



Constituent: pH Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Hollow symbols indicate censored values.

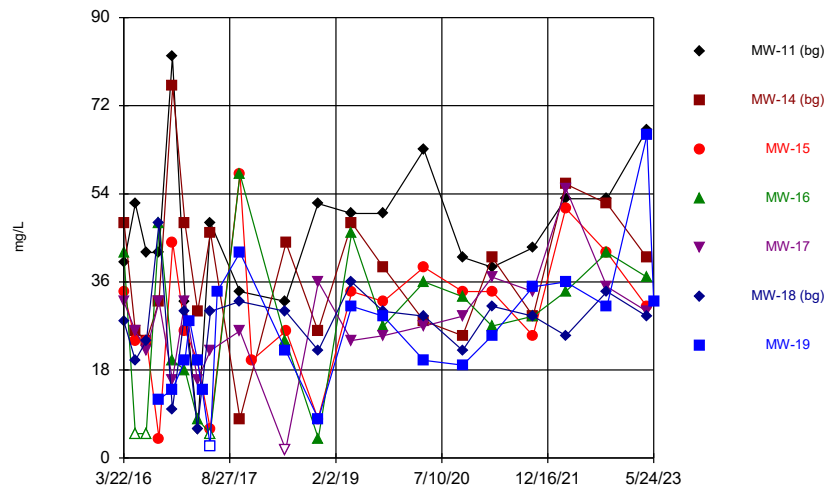
Time Series



Constituent: Sulfate Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Hollow symbols indicate censored values.

Time Series



Constituent: Total Dissolved Solids Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series

Constituent: Boron (mg/L) Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/22/2016			<0.1 (B1)	<0.1 (B1)	<0.1 (B1)	<0.0601 (B1)	
3/23/2016	<0.1 (B1)	<0.1 (B1)					
5/18/2016	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0601	
7/11/2016				<0.1			
7/12/2016	<0.1	<0.1	<0.1		<0.1	0.026 (J)	
9/12/2016	<0.1	<0.1	<0.1		<0.1	<0.0601	<0.08
9/13/2016				<0.1			
11/17/2016				<0.1			
11/18/2016	<0.1				<0.1	<0.0601	<0.08
11/19/2016		<0.1	<0.1				
1/18/2017		<0.1		<0.1	<0.1	<0.0601	<0.08
1/19/2017	<0.1		<0.1				
2/10/2017							<0.08
3/21/2017			<0.1	<0.1	<0.1	<0.0601	<0.08
3/22/2017	<0.1	<0.1					
4/14/2017							<0.08
5/23/2017			<0.1	<0.1			<0.08
5/24/2017	<0.1	<0.1			<0.1	<0.0601	
6/26/2017							<0.08
10/17/2017	<0.1	<0.1	<0.1	<0.1	<0.1	0.025 (J)	<0.08
5/31/2018	<0.1			<0.1	<0.1	0.022 (J)	<0.08
6/1/2018		<0.1	<0.1				
11/7/2018	<0.1	<0.1	<0.1				
11/8/2018				<0.1	<0.1	<0.0601	<0.08
4/22/2019	<0.1			<0.1	<0.1	<0.0601	<0.08
4/23/2019		<0.1	<0.1				
9/26/2019		<0.1	<0.1	<0.1	<0.1	0.042 (J)	<0.08
9/27/2019	0.0443 (J)						
4/13/2020	<0.1	<0.1	<0.1		<0.1		<0.08
4/14/2020				<0.1		<0.0601	
10/21/2020				<0.1			<0.08
10/22/2020	0.103	0.0559 (J)	0.0437 (J)		<0.1	0.0401 (J)	
3/16/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0601	<0.08
10/5/2021	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0601	<0.08
3/15/2022	<0.1	<0.1	<0.1	<0.1			<0.08
3/16/2022					<0.1	0.0927	
10/4/2022	<0.1	<0.1	<0.1				
10/5/2022				<0.1	<0.1	<0.0601	<0.08
4/19/2023	<0.1	<0.1	<0.1			0.0256 (J)	
4/20/2023				<0.1	<0.1		0.0318 (J)
5/24/2023							<0.08

Time Series

Constituent: Calcium (mg/L) Analysis Run 6/8/2023 3:26 PM

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/22/2016			1.3 (B1)	0.61 (B1)	1.4 (B1)	0.93 (B1)	
3/23/2016	<1.9 (*)	<5.9 (*)					
5/18/2016	1.8	5.5	1.2	0.89	1	0.85	
7/11/2016				0.82			
7/12/2016	1.9	5.3	1.1		1.1	0.69	
9/12/2016	2	4.9	1.4		0.98	0.86	0.92
9/13/2016				0.82			
11/17/2016				0.75			
11/18/2016	2				1	0.41	0.68
11/19/2016		4.8	1.3				
1/18/2017		3.8		0.58	1	0.81	0.64
1/19/2017	1.8		1.3				
2/10/2017							0.58
3/21/2017			1.3	0.6	0.91	0.76	0.56
3/22/2017	1.8	3.3					
4/14/2017							0.51
5/23/2017			1.4	0.65			0.54
5/24/2017	2	3.6			0.96	0.8	
6/26/2017							0.66
10/17/2017	2	3.7	1.1	1.1	0.96	0.69	0.58
12/15/2017				0.89 (RS)			
5/31/2018	1.8			1.1	1.1	0.75	0.56
6/1/2018		2.8	0.97				
11/7/2018	2	2.9	1.1				
11/8/2018				0.76	0.96	0.78	0.57
4/22/2019	1.71			1.09	0.946	0.531	0.634
4/23/2019		2.76	1.01				
9/26/2019		2.4	1.08	0.758	1.11	0.631	1.24
9/27/2019	1.99						
4/13/2020	2.03	2.74	1.22		1.03		0.687
4/14/2020				0.92		0.627	
10/21/2020				0.798			0.806
10/22/2020	2.02	2.17	1.35		0.969	0.553	
3/16/2021	1.74	2.4	1.41	0.681	1.12	0.57	2.23
10/5/2021	1.87	1.89	0.632	0.793	0.883	0.43 (J)	3.67
3/15/2022	1.87	2.59	0.703	1.18			5.84
3/16/2022					1.04	0.406 (J)	
10/4/2022	1.3	2.56	1.11				
10/5/2022				1.19	0.755	0.285 (J)	2.16
4/19/2023	1.65	2.63	0.682			0.368 (J)	
4/20/2023				1.07	0.855		15.4
5/24/2023							1.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
11/16/2006	8.5						
2/5/2007	8.8						
4/12/2007	9.5						
10/17/2007	12.1						
4/17/2008	13.1						
10/24/2008	13.7						
4/21/2009	11.9						
10/26/2009	11						
4/12/2010	12.5						
10/30/2010	10.8						
5/25/2011	10						
5/25/2012	10.9						
5/28/2013	11.4						
5/31/2014	9.2						
5/29/2015	11.5						
3/22/2016			8.4 (B1)	6.9 (B1)	7.3 (B1)	11 (B1)	
3/23/2016	13	8.8 (B1)					
5/18/2016	13	7.2	6	5.4	6	8.4	
7/11/2016				8.1			
7/12/2016	13	7.5	7.1		5.7	7.9	
9/12/2016	13	8.4	7.3		5.7	7.6	5
9/13/2016				6.2			
11/17/2016				7.3			
11/18/2016	14				8.2	8.5	<6.3 (*)
11/19/2016		12	8.9				
1/18/2017		11		6.3	7.4	9.2	5.3
1/19/2017	13		8.3				
2/10/2017							5.4
3/21/2017			8.8	7.3	7.9	10	5.3
3/22/2017	15	11					
4/14/2017							4.9 (B)
5/23/2017			9.3	7.4			5.5
5/24/2017	14	10			7.4	10	
6/26/2017							5.4
10/17/2017	15	10	7.1	9.9	6.5	8.6	5.4
12/19/2017				7.8 (RS)			
5/31/2018	12			8.7	6.5	6.9	5
6/1/2018		9.9	6.4				
11/7/2018	14	10	8				
11/8/2018				7.6	6.9	8.7	5.2
4/22/2019	13.3			10.2	6.64	6.17	4.91
4/23/2019		9.3	6.75				
6/25/2019				9.4			
9/26/2019		8.35	7.66	6.54	6.7	6.09	5.03
9/27/2019	13.4						
4/13/2020	14.2	7.9	7.74		6.46		4.9
4/14/2020				7.03		6.15	
10/21/2020				7.36			5.25
10/22/2020	17.4	6.5	8.69		6.37	6.89	
3/16/2021	13.3	7.32	8.94	7.14	6.97	8.18	5.72
10/5/2021	12.5	6.59	9.3	6.55	5.91	5.72	5.1
3/15/2022	13.6	8.36	5.55	10.8			6.91

Time Series

Constituent: Chloride (mg/L) Analysis Run 6/8/2023 3:26 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/16/2022					7	6.05	
10/4/2022	12	11.2	8.22				
10/5/2022				11.7	5.51	4.97	5.94
4/19/2023	12.2	10.2	5.21			5.08	
4/20/2023				10	5.73		4.84
5/24/2023							6.84

Time Series

Constituent: Fluoride (mg/L) Analysis Run 6/8/2023 3:26 PM

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/22/2016			<0.026 (B1)	<0.026 (B1)	<0.026 (B1)	<0.026 (B1)	
3/23/2016	<0.1	<0.026 (B1)					
5/18/2016	<0.1	<0.026	<0.026	<0.026	<0.026	<0.026	
7/11/2016				<0.026			
7/12/2016	0.04 (J)	<0.026	<0.026		<0.026	0.04 (J)	
9/12/2016	0.04 (J)	<0.026	<0.026		<0.026	<0.026	<0.026
9/13/2016				<0.026			
11/17/2016				<0.026			
11/18/2016	<0.1				<0.026	<0.026	<0.026
11/19/2016		<0.026	<0.026				
1/18/2017		<0.026		<0.026	<0.026	<0.026	<0.026
1/19/2017	<0.1		<0.026				
2/10/2017							<0.026
3/21/2017			<0.026	<0.026	<0.026	<0.026	<0.026
3/22/2017	<0.1	<0.026					
4/14/2017							<0.026
5/23/2017			<0.026	<0.026			<0.026
5/24/2017	<0.1	<0.026			<0.026	<0.026	
6/26/2017							<0.026
10/17/2017	0.04 (J)	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026
5/31/2018	0.04 (J)			<0.026	<0.026	0.04 (J)	<0.026
6/1/2018		<0.026	<0.026				
11/7/2018	0.05 (J)	<0.026	<0.026				
11/8/2018				<0.026	<0.026	<0.026	<0.026
4/22/2019	0.0353 (J)			0.029 (J)	<0.026	0.0311 (J)	<0.026
4/23/2019		0.0335 (J)	0.0275 (J)				
9/26/2019		0.0272 (J)	<0.026	0.0302 (J)	0.0263 (J)	0.0366 (J)	0.0287 (J)
9/27/2019	0.0438 (J)						
4/13/2020	0.0672 (J)	0.0411 (J)	0.0484 (J)		0.0511 (J)		0.0382 (J)
4/14/2020				0.0496 (J)		0.0764 (J)	
10/21/2020				<0.026			<0.026
10/22/2020	<0.1	<0.026	<0.026		<0.026	<0.026	
3/16/2021	0.0269 (J)	<0.026	<0.026	<0.026	<0.026	0.0344 (J)	0.0376 (J)
10/5/2021	0.0561 (J)	0.03 (J)	<0.026	0.0264 (J)	<0.026	<0.026	<0.026
3/15/2022	<0.1	0.0364 (J)	0.0302 (J)	0.0438 (J)			0.0423 (J)
3/16/2022					0.0399 (J)	<0.026	
10/4/2022	0.0281 (J)	<0.026	<0.026				
10/5/2022				<0.026	<0.026	<0.026	<0.026
4/19/2023	0.0416 (J)	0.0415 (J)	0.0275 (J)			0.0297 (J)	
4/20/2023				0.0322 (J)	0.0271 (J)		0.0566 (J)
5/24/2023							0.0849 (J)

Time Series

Constituent: pH (SU) Analysis Run 6/8/2023 3:26 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/22/2016			4.77	4.68	4.89	4.63	
3/23/2016	4.8	5.4					
5/18/2016	4.74	5.38	4.62	4.67	5.09	4.58	
7/11/2016				4.75			
7/12/2016	4.9	5.65	5.03		5.27	4.7	
9/12/2016	4.72	5.14	4.6		4.94	4.6	5.55
9/13/2016				4.56			
11/17/2016				4.6			
11/18/2016	4.65				4.82	4.52	5.14
11/19/2016		5.05	4.46				
1/18/2017		5.11		4.68	5.02	4.63	5.27
1/19/2017	4.77		4.65				
2/10/2017							5.14
3/21/2017			4.47	4.39	4.82	4.45	4.96
3/22/2017	4.46	4.86					
4/14/2017							5.07
5/23/2017			4.69	4.61			5.01
5/24/2017	4.74	5.02			4.87	4.55	
6/26/2017							4.93
10/17/2017	4.72	5.01	4.62	4.51	5	4.61	4.93
11/30/2017	4.61						4.81
5/31/2018	4.93			4.75	5.42	4.84	5.11
6/1/2018		5	4.87				
11/7/2018	4.58	4.81	4.61				
11/8/2018				4.71	5.02	4.63	5.09
4/22/2019	4.67			4.49	4.94	4.64	4.97
4/23/2019		4.93	4.77				
9/26/2019		4.99	4.84	4.62	5.01	4.71	5.19
9/27/2019	4.61						
4/13/2020	4.7	4.96	4.71		4.99		5.06
4/14/2020				4.61		4.75	
10/21/2020				4.5			5.05
10/22/2020	4.66	5.09	4.78		5.01	4.7	
3/16/2021	4.72	5.06	4.65	4.62	5		5.35
10/5/2021	4.67	4.98	4.85	4.6	4.88	4.68	5.53
3/15/2022	4.73	5.07	4.87	4.58			5.82
3/16/2022					4.91	4.79	
10/4/2022	4.62	4.9	4.71				
10/5/2022				4.52	5	4.7	5.3
4/19/2023	4.61	4.8	4.7			4.65	
4/20/2023				4.5	4.79		6.06
5/24/2023							5.15

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
11/16/2006	5						
2/5/2007	<5						
4/12/2007	<5						
10/17/2007	5.7						
4/17/2008	7						
10/24/2008	6.6						
4/21/2009	5.2						
10/26/2009	8.3						
4/12/2010	6.8						
10/30/2010	10.8						
5/25/2011	11.5						
5/25/2012	8.2						
5/28/2013	6.9						
5/31/2014	3.5						
5/29/2015	3.3						
3/22/2016			<0.756	<5	<5	3 (J)	
3/23/2016	1.8 (J)	<0.756					
5/18/2016	4.1	1.9	<0.756	<5	1.4	3.9 (J)	
7/11/2016				<5			
7/12/2016	3.8 (J)	2 (J)	<0.756		1.8 (J)	3.9 (J)	
9/12/2016	3.9 (J)	2 (J)	<0.756		2.2 (J)	4.5 (J)	<5
9/13/2016				1.7 (J)			
11/17/2016				<5			
11/18/2016	5.4				1.5 (J)	4.2 (J)	<5
11/19/2016		1.7 (J)	<0.756				
1/18/2017		<0.756		<5	1.5 (J)	3.8 (J)	<5
1/19/2017	<5		<0.756				
2/10/2017							<5
3/21/2017			<0.756	<5	<5	<5 (*)	<5
3/22/2017	<5	<0.756					
4/14/2017							1.5 (J)
5/23/2017			<0.756	<5			<5
5/24/2017	2 (J)	<0.756			1.7 (J)	3 (J)	
6/26/2017							1.5 (J)
10/17/2017	<5	<0.756	<0.756	<5	1.8 (J)	3.4 (J)	<5
5/31/2018	3 (J)			2.2 (J)	2.5 (J)	4.1 (J)	1.9 (J)
6/1/2018		1.8 (J)	1.5 (J)				
11/7/2018	3.1 (J)	1.8 (J)	1.5 (J)				
11/8/2018				1.7 (J)	2.2 (J)	3.3 (J)	1.5 (J)
4/22/2019	2.22			2.52	2.96	4.66	2.09
4/23/2019		1.99	1.43				
9/26/2019		1.95	1.2	2.28	2.96	4.23	2.1
9/27/2019	2.36						
4/13/2020	2.47	1.43	0.992 (J)		2.75		1.69
4/14/2020				2.27		3.96	
10/21/2020				2.15			1.31
10/22/2020	2.01	1.76	1.04		2.98	3.37	
3/16/2021	2.15	2.23	1.07	2	3.06	3.18	2.72
10/5/2021	2.57	2.46	3.38	2.22	2.85	3.83	1.91
3/15/2022	2.88	2.1	1.33	2.29			4.86
3/16/2022					3.38	7.04	
10/4/2022	2.04	<0.756	<0.756				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 6/8/2023 3:26 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
10/5/2022				1.4	2.05	6.04	1.02
4/19/2023	2.85	1.93	2.42			7.48	
4/20/2023				2.59	3.44		3.73
5/24/2023							2.62

Time Series

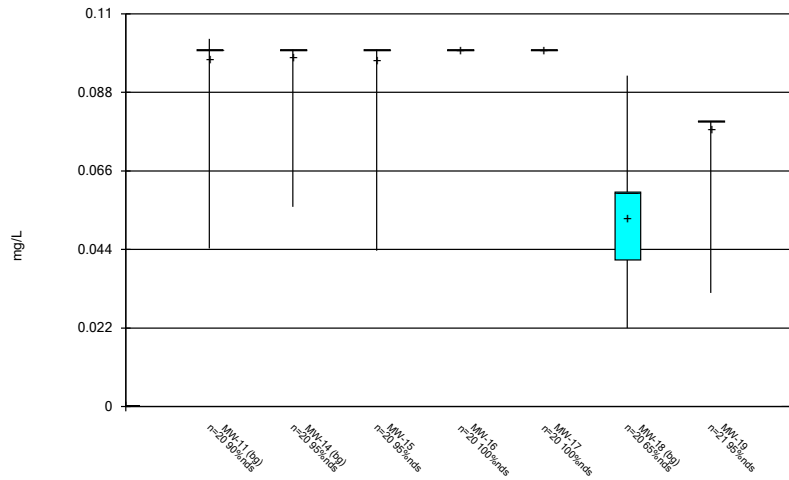
Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/8/2023 3:26 PM

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/22/2016			34 (B1)	42 (B1)	32 (B1)	28 (B1)	
3/23/2016	40	48 (B1)					
5/18/2016	52	26	24	<5	26	20	
7/11/2016				<5			
7/12/2016	42	24	24		22	24	
9/12/2016	42	32	4 (J)		32	48	12
9/13/2016				48			
11/17/2016				20			
11/18/2016	82				16	10	14
11/19/2016		76	44				
1/18/2017		48		18	32	30	20
1/19/2017	32		26				
2/10/2017							28
3/21/2017			20	8	16	6	20
3/22/2017	6	30					
4/14/2017							14
5/23/2017			6	<5			<5
5/24/2017	48	46			22	30	
6/26/2017							34
10/17/2017	34	8	58	58	26	32	42
12/15/2017			20 (RS)				
5/31/2018	32			24	<3.4	30	22
6/1/2018		44	26				
11/7/2018	52	26	8				
11/8/2018				4 (J)	36	22	8
4/22/2019	50			46	24	36	31
4/23/2019		48	34				
9/26/2019		39	32	27	25	30	29
9/27/2019	50						
4/13/2020	63	28	39		27		20
4/14/2020				36		29	
10/21/2020				33			19
10/22/2020	41	25	34		29	22	
3/16/2021	39	41	34	27	37	31	25
10/5/2021	43	29	25	29	34	29	35
3/15/2022	53	56	51	34			36
3/16/2022					55	25	
10/4/2022	53	52	42				
10/5/2022				42	35	34	31
4/19/2023	67	41	31			29	
4/20/2023				37	30		66
5/24/2023							32

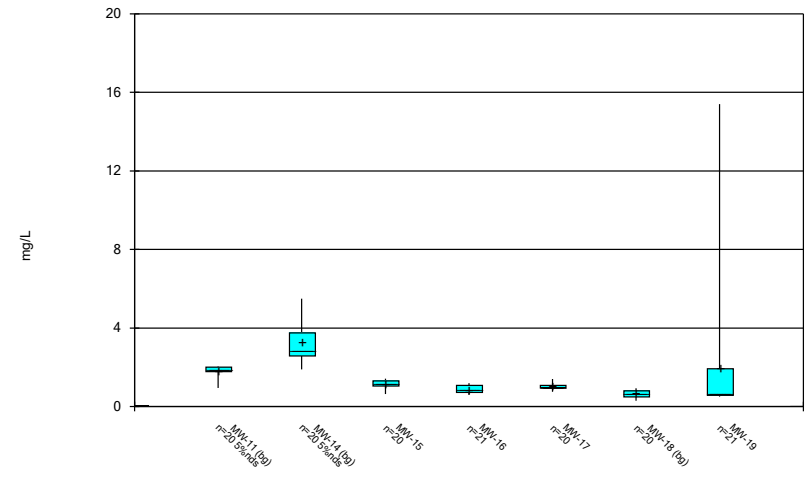
FIGURE B.

Box & Whiskers Plot



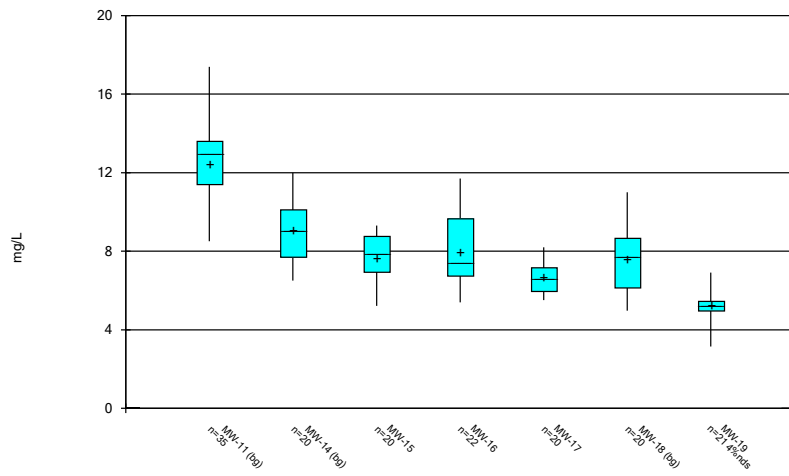
Constituent: Boron Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



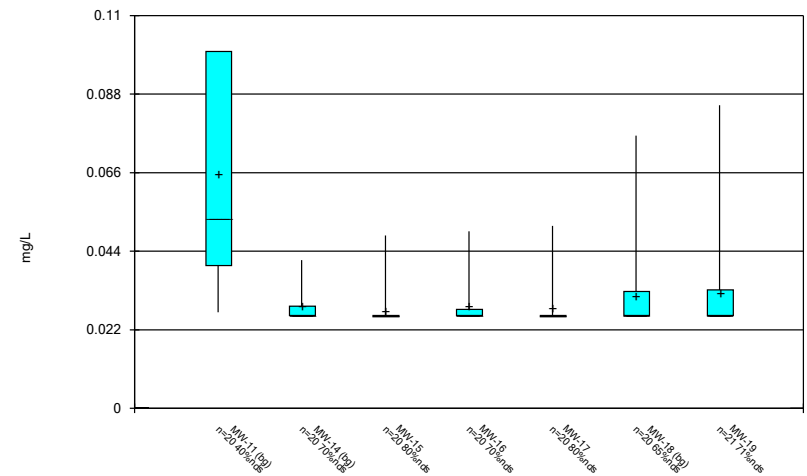
Constituent: Calcium Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



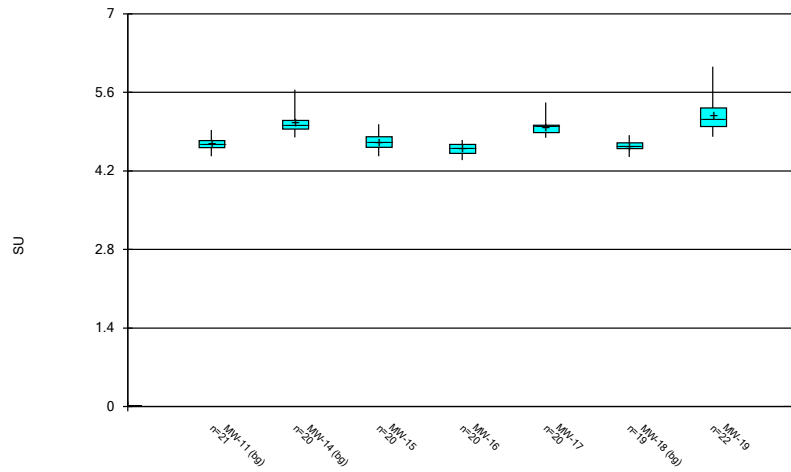
Constituent: Chloride Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



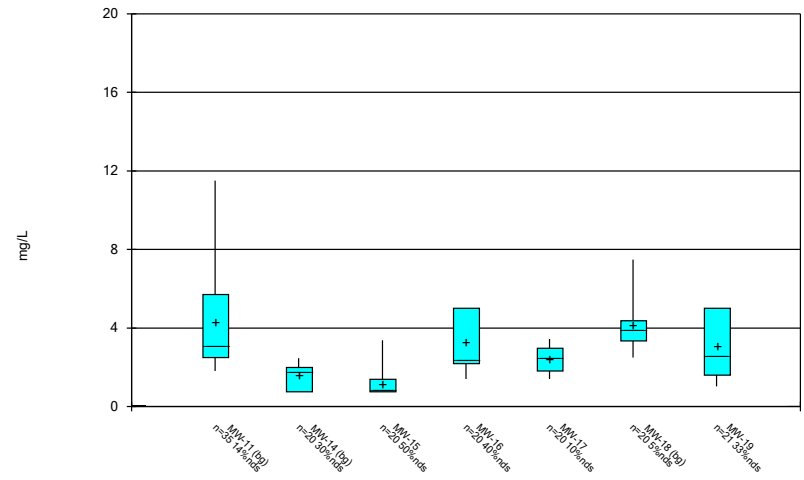
Constituent: Fluoride Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



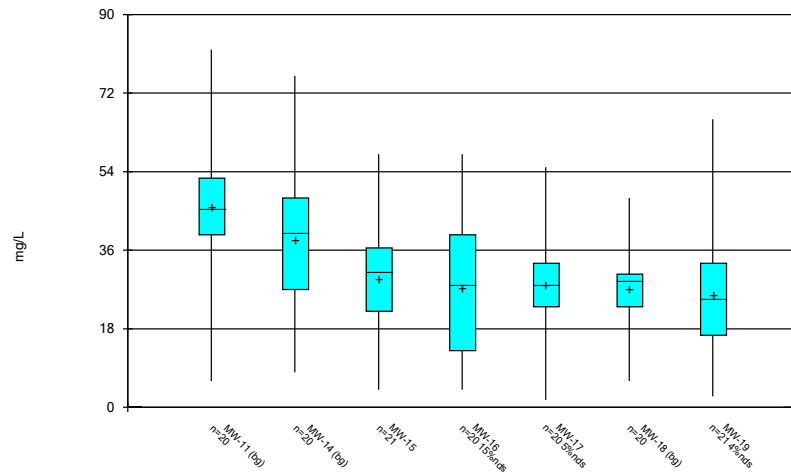
Constituent: pH Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 6/8/2023 3:26 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

FIGURE C.

Outlier Summary

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/9/2023, 5:15 PM

No values were flagged as outliers.

FIGURE D.

Appendix III Intrawell Prediction Limits - Significant Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/9/2023, 5:26 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	0.8608	n/a	4/20/2023	15.4	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
pH (SU)	MW-19	5.525	4.715	4/20/2023	6.06	Yes	18	5.12	0.1992	0	None	No	0.0009398	Param Intra 1 of 2
Sulfate (mg/L)	MW-18	4.898	n/a	4/19/2023	7.48	Yes	17	3.696	0.585	5.882	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-19	43.34	n/a	4/20/2023	66	Yes	17	22.09	10.35	5.882	None	No	0.00188	Param Intra 1 of 2

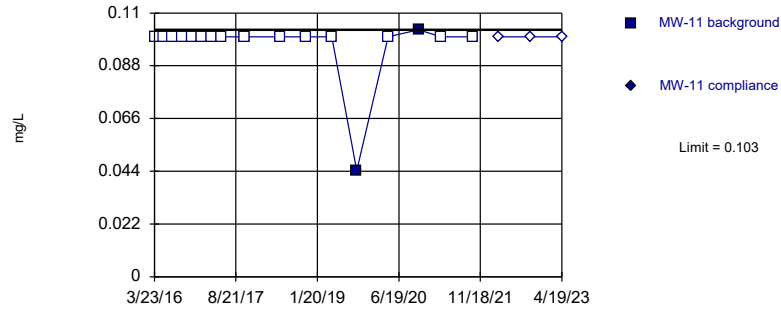
Appendix III Intrawell Prediction Limits - All Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/9/2023, 5:26 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)	MW-11	0.103	n/a	4/19/2023	0.1ND	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-14	0.1	n/a	4/19/2023	0.1ND	No	17	n/a	n/a	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-15	0.1	n/a	4/19/2023	0.1ND	No	17	n/a	n/a	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-18	0.0601	n/a	4/19/2023	0.0256J	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-19	0.0601	n/a	4/20/2023	0.0318J	No	17	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Calcium (mg/L)	MW-11	2.125	n/a	4/19/2023	1.65	No	17	24.35	9.256	5.882	None	x^5	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-14	5.702	n/a	4/19/2023	2.63	No	17	3.406	1.117	5.882	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-15	1.597	n/a	4/19/2023	0.682	No	17	1.187	0.2	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-16	1.146	n/a	4/20/2023	1.07	No	18	0.8117	0.1645	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-17	1.27	n/a	4/20/2023	0.855	No	17	0.01917	0.1071	0	None	ln(x)	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-18	0.9976	n/a	4/19/2023	0.368J	No	17	0.6866	0.1514	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-19	0.8608	n/a	4/20/2023	15.4	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-11	16.08	n/a	4/19/2023	12.2	No	32	12.44	1.948	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-14	12.3	n/a	4/19/2023	10.2	No	17	8.927	1.643	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-15	10.02	n/a	4/19/2023	5.21	No	17	7.922	1.023	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-16	10.07	n/a	4/20/2023	10	No	19	7.533	1.263	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-17	8.234	n/a	4/20/2023	5.73	No	17	6.738	0.7281	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-18	11.16	n/a	4/19/2023	5.08	No	17	8	1.54	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-19	5.802	n/a	4/20/2023	4.84	No	17	706.2	208.1	5.882	None	x^4	0.00188	Param Intra 1 of 2
Fluoride (mg/L)	MW-11	0.1	n/a	4/19/2023	0.0416J	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Fluoride (mg/L)	MW-14	0.0411	n/a	4/19/2023	0.0415J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-15	0.0484	n/a	4/19/2023	0.0275J	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-16	0.0496	n/a	4/20/2023	0.0322J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-17	0.0511	n/a	4/20/2023	0.0271J	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-18	0.0764	n/a	4/19/2023	0.0297J	No	17	n/a	n/a	64.71	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-19	0.0382	n/a	4/20/2023	0.0566J	No	17	n/a	n/a	82.35	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (SU)	MW-11	4.927	4.479	4/19/2023	4.61	No	18	4.703	0.1101	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-14	5.519	4.651	4/19/2023	4.8	No	17	5.085	0.2112	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-15	5.006	4.405	4/19/2023	4.7	No	17	4.705	0.1462	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-16	4.808	4.41	4/20/2023	4.5	No	17	4.609	0.09695	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-17	5.314	4.695	4/20/2023	4.79	No	17	1.71	0.0172	0	None	x^(1/3)	0.0009398	Param Intra 1 of 2
pH (SU)	MW-18	4.833	4.445	4/19/2023	4.65	No	16	4.639	0.09337	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-19	5.525	4.715	4/20/2023	6.06	Yes	18	5.12	0.1992	0	None	No	0.0009398	Param Intra 1 of 2
Sulfate (mg/L)	MW-11	10.47	n/a	4/19/2023	2.85	No	32	1.364	0.5266	15.63	Kaplan-Meier	ln(x)	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-14	2.474	n/a	4/19/2023	1.93	No	17	2.586	1.72	29.41	Kaplan-Meier	x^2	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-15	3.38	n/a	4/19/2023	2.42	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	MW-16	5	n/a	4/20/2023	2.59	No	17	n/a	n/a	47.06	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Sulfate (mg/L)	MW-17	3.508	n/a	4/20/2023	3.44	No	17	2.304	0.5866	11.76	None	No	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-18	4.898	n/a	4/19/2023	7.48	Yes	17	3.696	0.585	5.882	None	No	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-19	5	n/a	4/20/2023	3.73	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	MW-11	76.12	n/a	4/19/2023	67	No	17	44	15.64	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-14	67.34	n/a	4/19/2023	41	No	17	36.35	15.09	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-15	54.62	n/a	4/19/2023	31	No	18	27.33	13.43	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-16	59.48	n/a	4/20/2023	37	No	17	24.46	17.05	17.65	Kaplan-Meier	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-17	43.75	n/a	4/20/2023	30	No	17	25.75	8.766	5.882	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-18	46.41	n/a	4/19/2023	29	No	17	26.88	9.506	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-19	43.34	n/a	4/20/2023	66	Yes	17	22.09	10.35	5.882	None	No	0.00188	Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Non-parametric

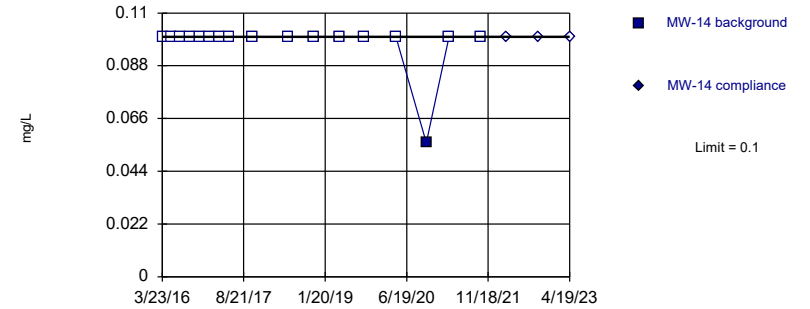


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 88.24% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Boron Analysis Run 5/9/2023 5:16 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

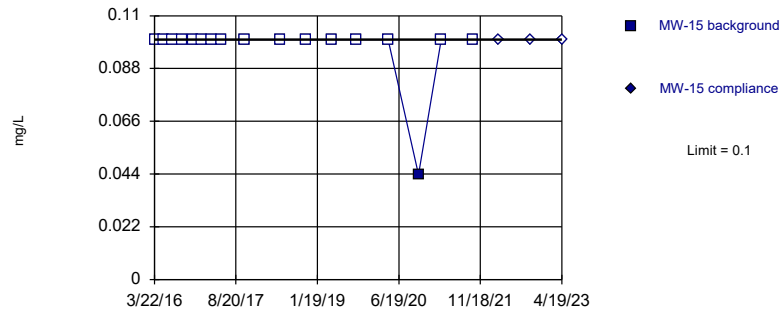


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 94.12% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

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Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

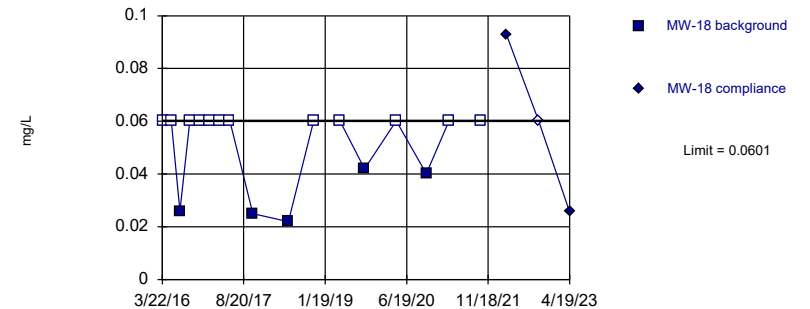


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 94.12% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Boron Analysis Run 5/9/2023 5:16 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

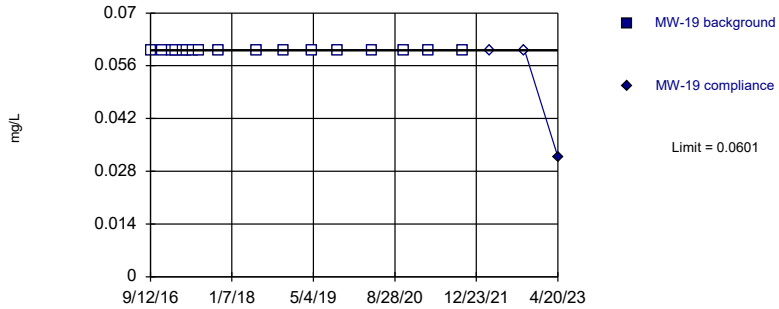


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 70.59% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Boron Analysis Run 5/9/2023 5:16 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Non-parametric

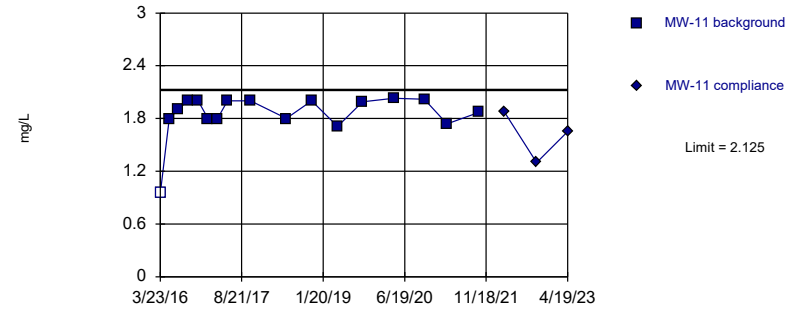


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Boron Analysis Run 5/9/2023 5:16 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Parametric

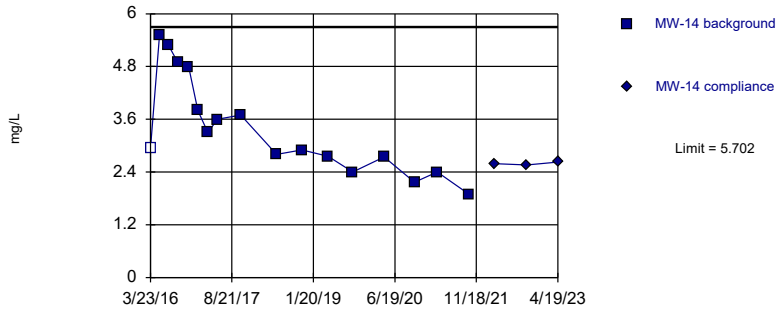


Background Data Summary (based on x^5 transformation): Mean=24.35, Std. Dev.=9.256, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8606, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 5/9/2023 5:16 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Parametric

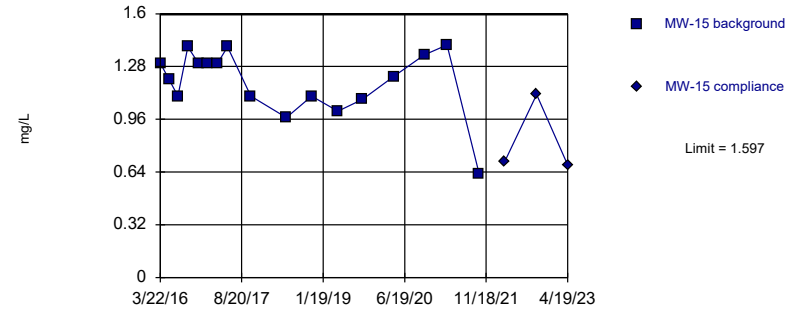


Background Data Summary: Mean=3.406, Std. Dev.=1.117, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9118, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 5/9/2023 5:16 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Parametric

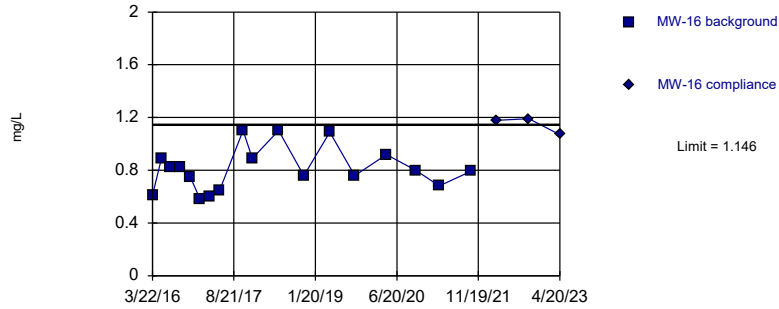


Background Data Summary: Mean=1.187, Std. Dev.=0.2, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8807, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 5/9/2023 5:16 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

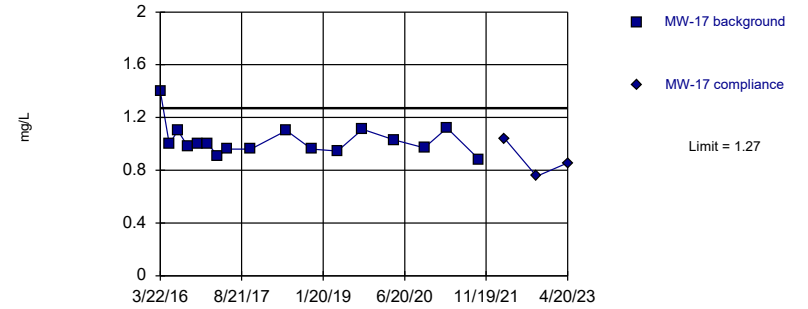


Background Data Summary: Mean=0.8117, Std. Dev.=0.1645, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9244, critical = 0.858. Kappa = 2.032 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 5/9/2023 5:16 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

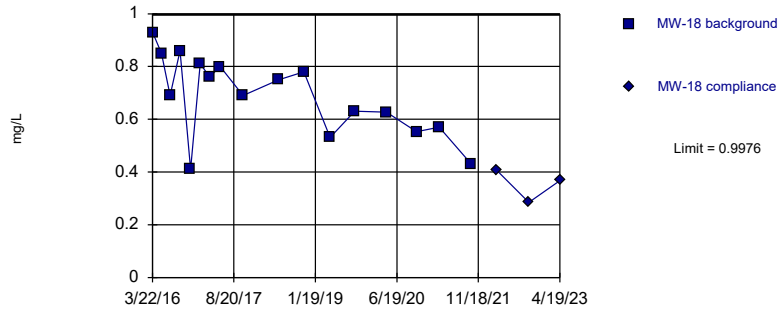


Background Data Summary (based on natural log transformation): Mean=0.01917, Std. Dev.=0.1071, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8548, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 5/9/2023 5:16 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

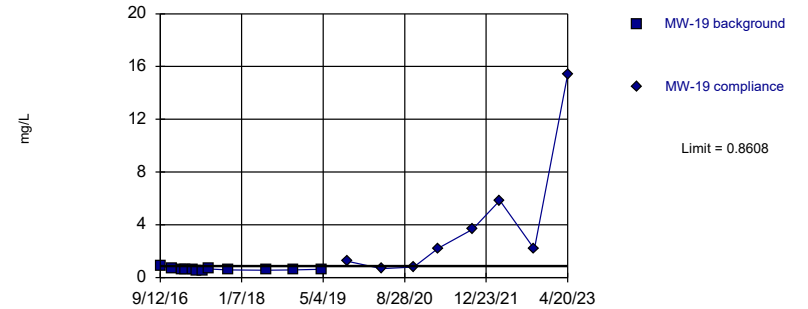


Background Data Summary: Mean=0.6866, Std. Dev.=0.1514, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.964, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

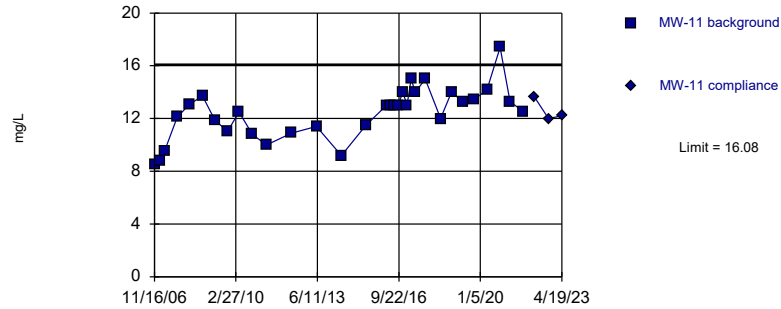


Background Data Summary (based on square root transformation): Mean=0.7847, Std. Dev.=0.06412, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8069, critical = 0.805. Kappa = 2.232 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Parametric

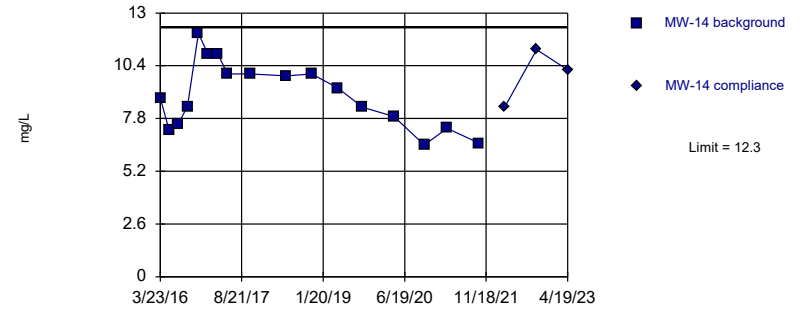


Background Data Summary: Mean=12.44, Std. Dev.=1.948, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9664, critical = 0.904. Kappa = 1.87 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Parametric

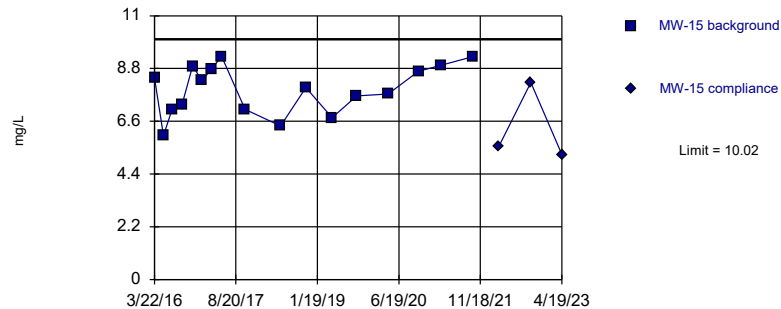


Background Data Summary: Mean=8.927, Std. Dev.=1.643, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9575, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Parametric

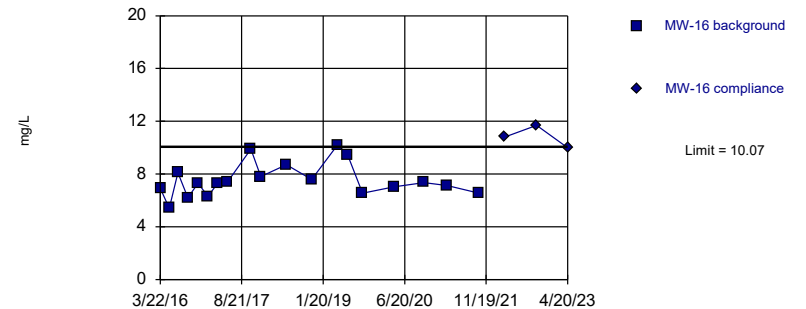


Background Data Summary: Mean=7.922, Std. Dev.=1.023, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9501, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Parametric

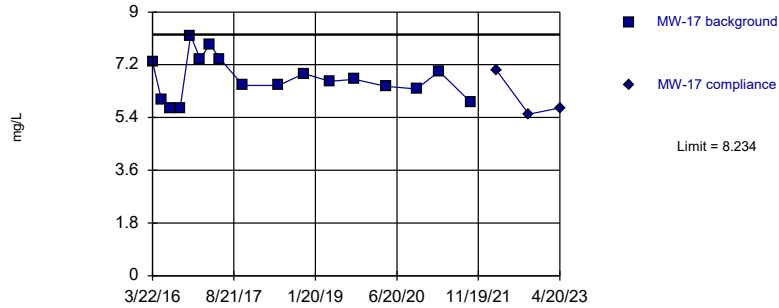


Background Data Summary: Mean=7.533, Std. Dev.=1.263, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9348, critical = 0.863. Kappa = 2.01 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

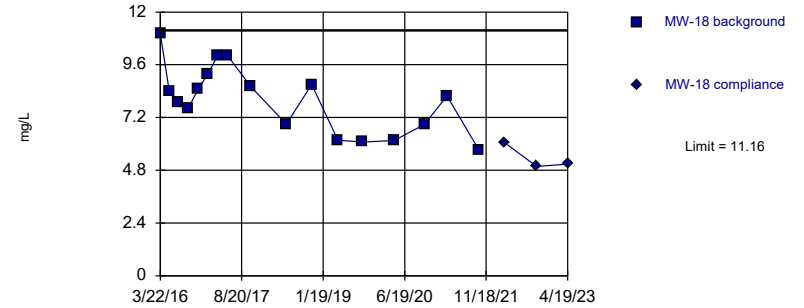


Background Data Summary: Mean=6.738, Std. Dev.=0.7281, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9598, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

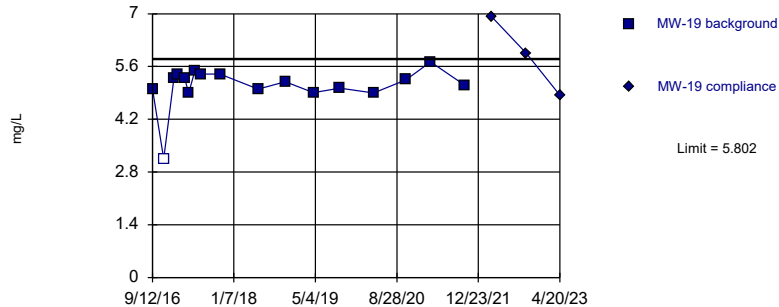


Background Data Summary: Mean=8, Std. Dev.=1.54, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.958, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

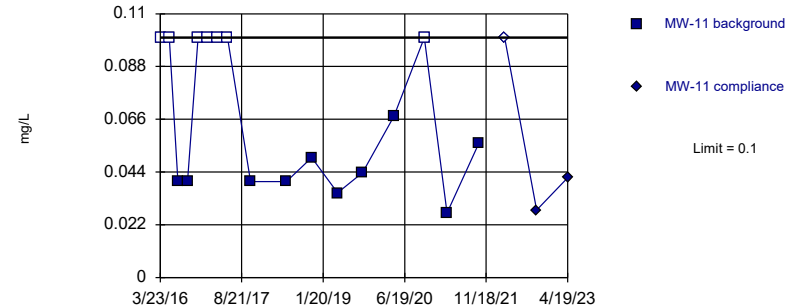


Background Data Summary (based on x^4 transformation): Mean=706.2, Std. Dev.=208.1, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.885, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

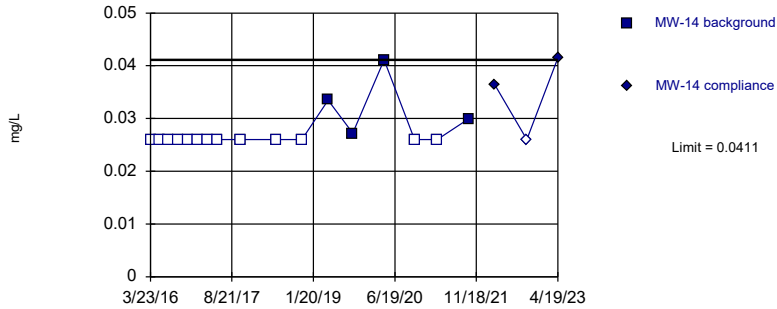


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. 41.18% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Non-parametric

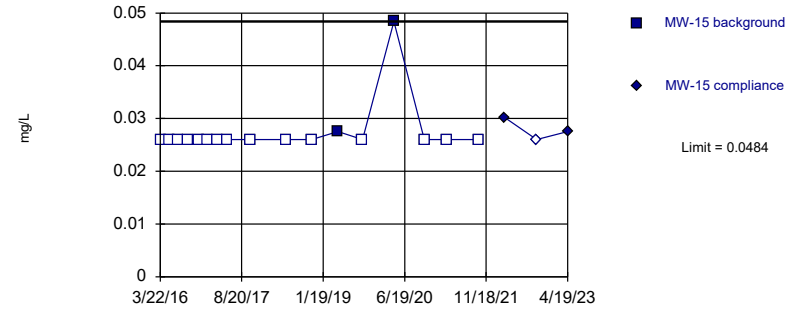


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Non-parametric

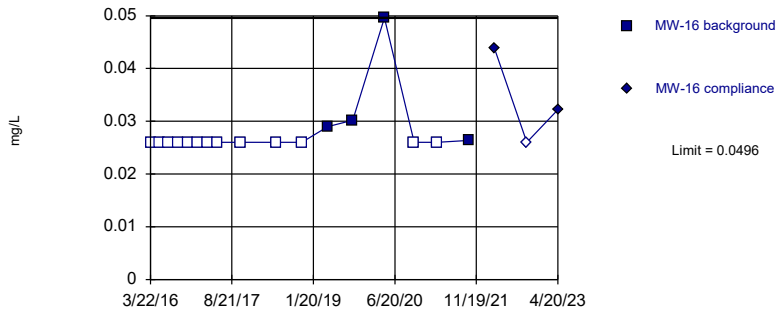


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 88.24% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Non-parametric

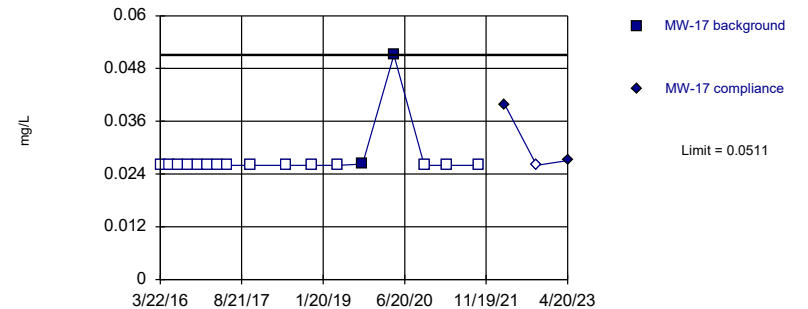


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Non-parametric

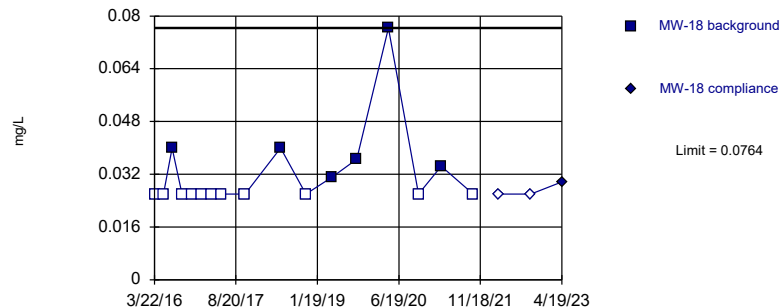


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 88.24% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

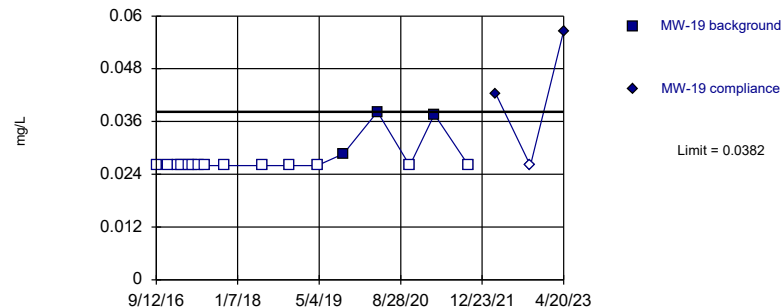


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 64.71% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

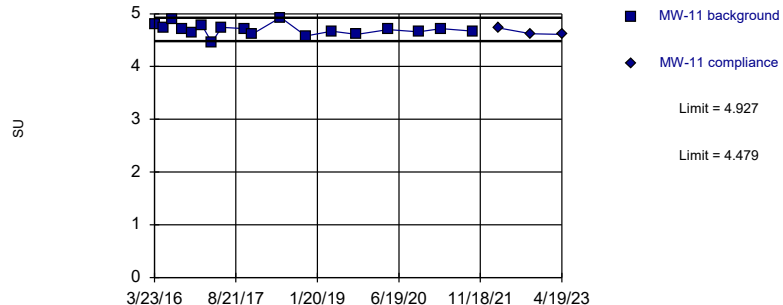


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 82.35% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit
Intrawell Parametric

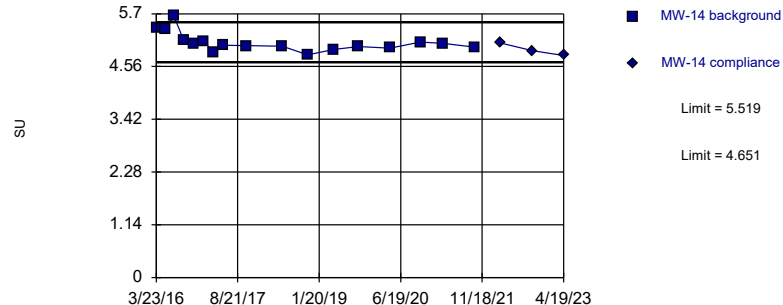


Background Data Summary: Mean=4.703, Std. Dev.=0.1101, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9628, critical = 0.858. Kappa = 2.032 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit
Intrawell Parametric

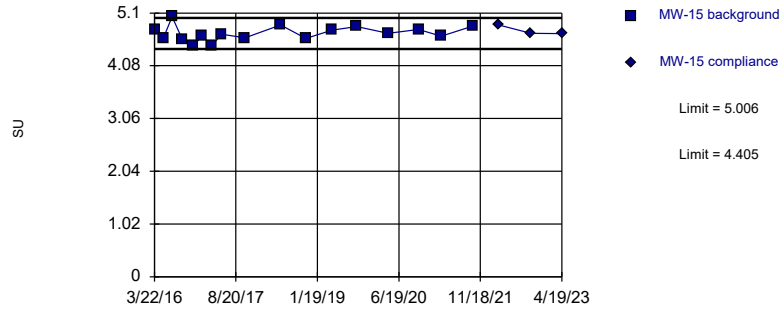


Background Data Summary: Mean=5.085, Std. Dev.=0.2112, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8539, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit
Intrawell Parametric

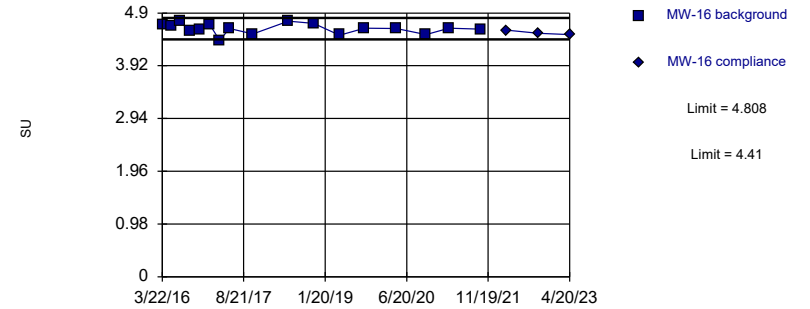


Background Data Summary: Mean=4.705, Std. Dev.=0.1462, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9668, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit
Intrawell Parametric

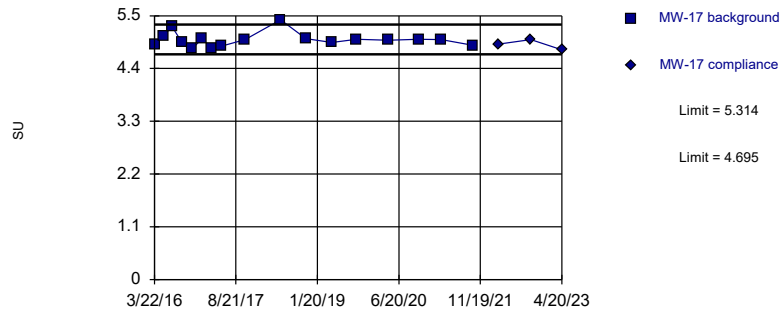


Background Data Summary: Mean=4.609, Std. Dev.=0.09695, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9549, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit
Intrawell Parametric

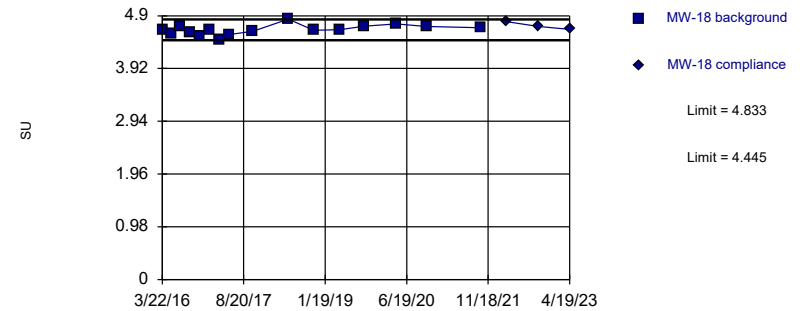


Background Data Summary (based on cube root transformation): Mean=1.71, Std. Dev.=0.0172, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8526, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit
Intrawell Parametric

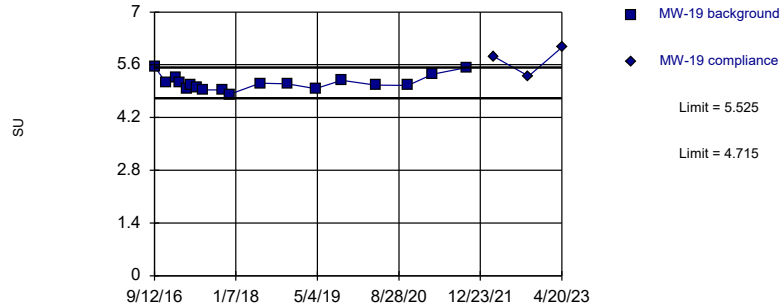


Background Data Summary: Mean=4.639, Std. Dev.=0.09337, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9831, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limits

Prediction Limit
Intrawell Parametric

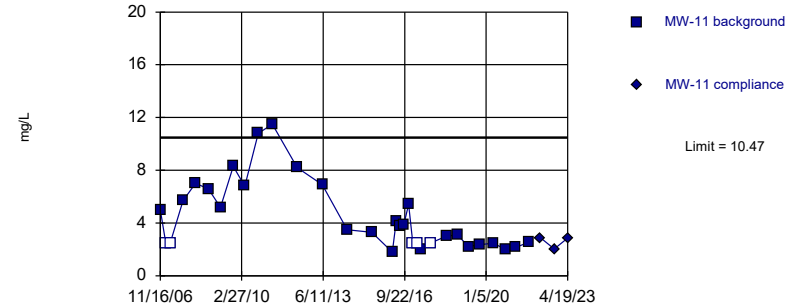


Background Data Summary: Mean=5.12, Std. Dev.=0.1992, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9196, critical = 0.858. Kappa = 2.032 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

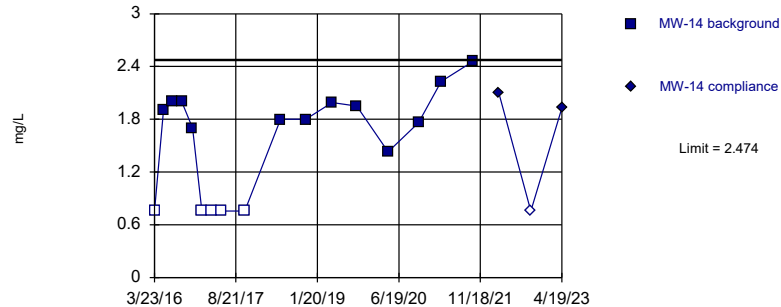


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=1.364, Std. Dev.=0.5266, n=32, 15.63% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9191, critical = 0.904. Kappa = 1.87 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

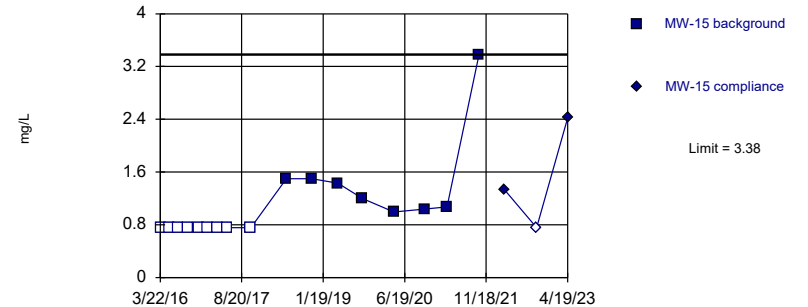


Background Data Summary (based on square transformation) (after Kaplan-Meier Adjustment): Mean=2.586, Std. Dev.=1.72, n=17, 29.41% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8933, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

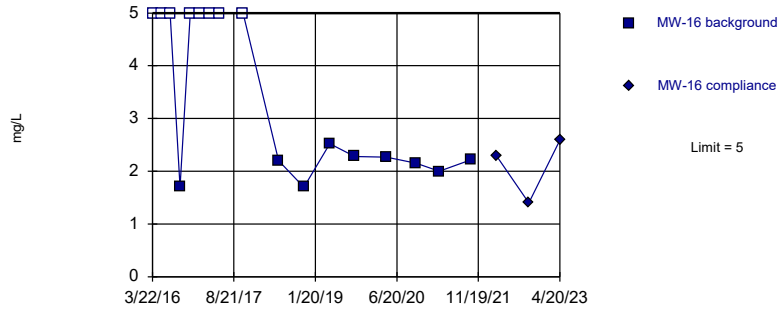


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 52.94% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

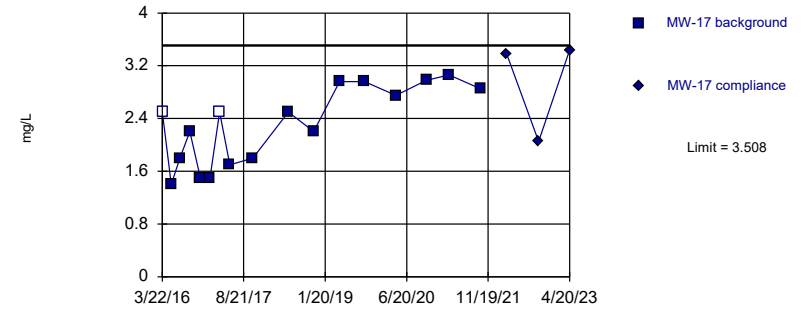


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. 47.06% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

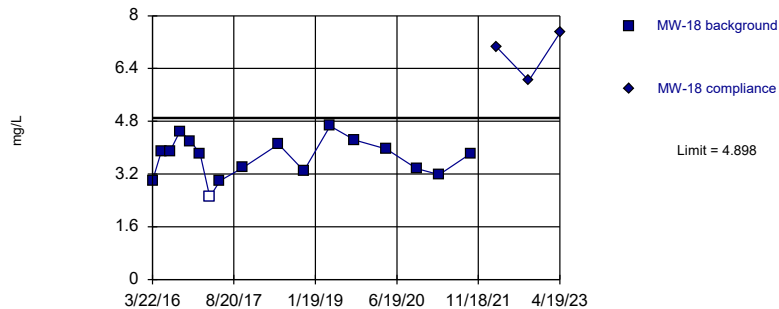


Background Data Summary: Mean=2.304, Std. Dev.=0.5866, n=17, 11.76% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9018, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

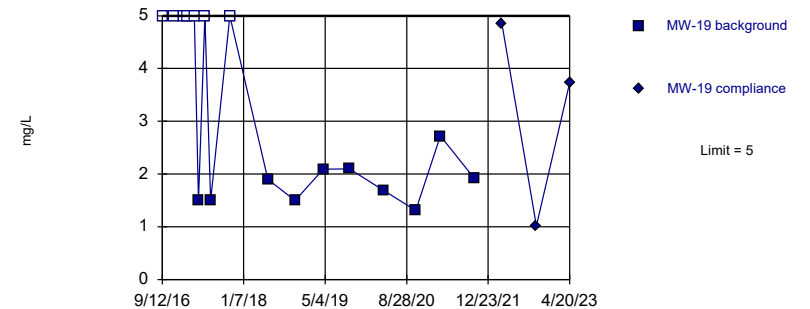


Background Data Summary: Mean=3.696, Std. Dev.=0.585, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9714, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

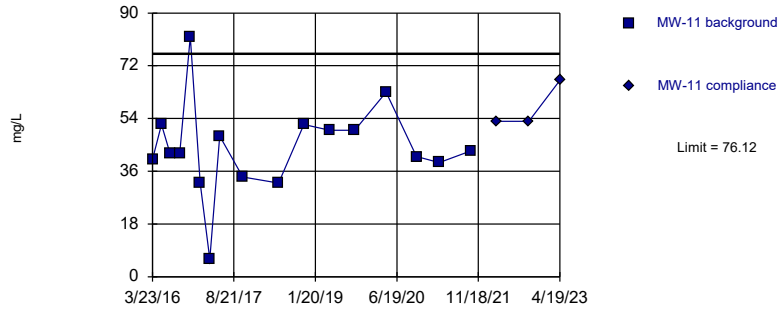


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. 41.18% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

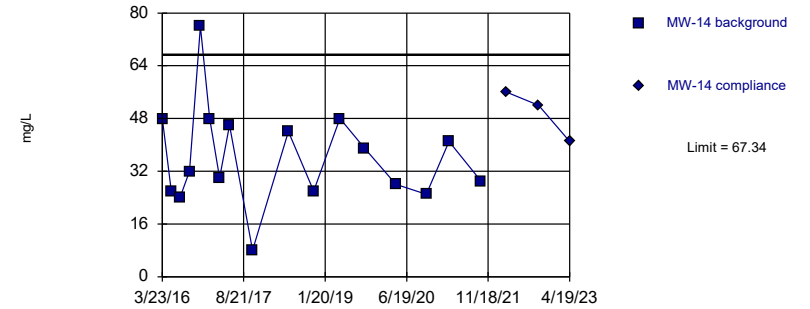


Background Data Summary: Mean=44, Std. Dev.=15.64, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9169, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

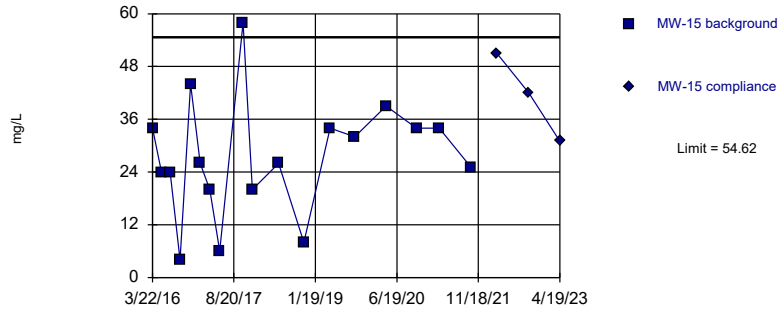


Background Data Summary: Mean=36.35, Std. Dev.=15.09, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9195, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric



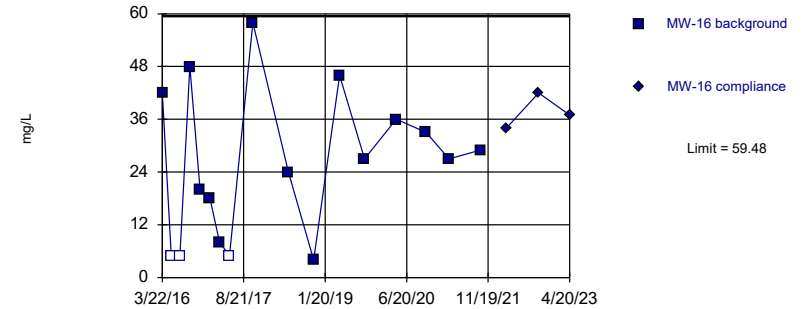
Background Data Summary: Mean=27.33, Std. Dev.=13.43, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9546, critical = 0.858. Kappa = 2.032 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric

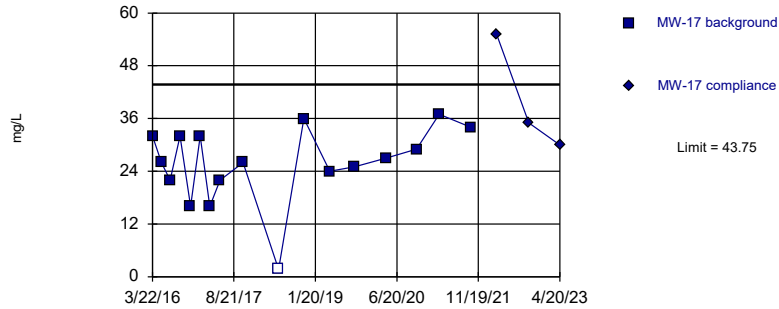


Background Data Summary (after Kaplan-Meier Adjustment): Mean=24.46, Std. Dev.=17.05, n=17, 17.65% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9377, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

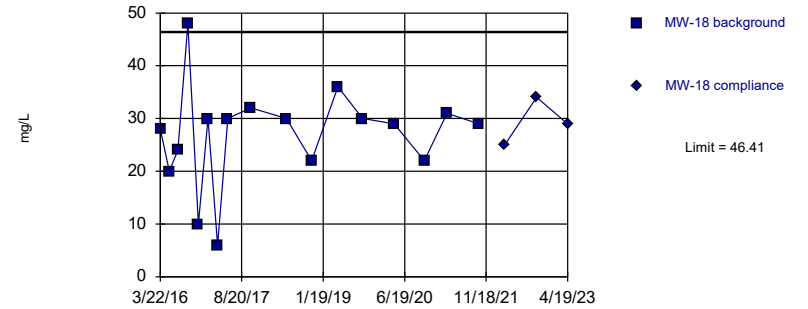


Background Data Summary: Mean=25.75, Std. Dev.=8.766, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9063, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

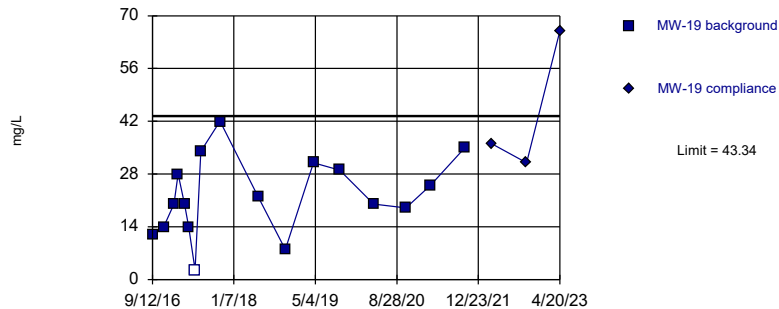


Background Data Summary: Mean=26.88, Std. Dev.=9.506, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9103, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=22.09, Std. Dev.=10.35, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9883, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 5/9/2023 5:17 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
3/23/2016	<0.1 (B1)	
5/18/2016	<0.1	
7/12/2016	<0.1	
9/12/2016	<0.1	
11/18/2016	<0.1	
1/19/2017	<0.1	
3/22/2017	<0.1	
5/24/2017	<0.1	
10/17/2017	<0.1	
5/31/2018	<0.1	
11/7/2018	<0.1	
4/22/2019	<0.1	
9/27/2019	0.0443 (J)	
4/13/2020	<0.1	
10/22/2020	0.103	
3/16/2021	<0.1	
10/5/2021	<0.1	
3/15/2022		<0.1
10/4/2022		<0.1
4/19/2023		<0.1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	<0.1 (B1)	
5/18/2016	<0.1	
7/12/2016	<0.1	
9/12/2016	<0.1	
11/19/2016	<0.1	
1/18/2017	<0.1	
3/22/2017	<0.1	
5/24/2017	<0.1	
10/17/2017	<0.1	
6/1/2018	<0.1	
11/7/2018	<0.1	
4/23/2019	<0.1	
9/26/2019	<0.1	
4/13/2020	<0.1	
10/22/2020	0.0559 (J)	
3/16/2021	<0.1	
10/5/2021	<0.1	
3/15/2022		<0.1
10/4/2022		<0.1
4/19/2023		<0.1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	<0.1 (B1)	
5/18/2016	<0.1	
7/12/2016	<0.1	
9/12/2016	<0.1	
11/19/2016	<0.1	
1/19/2017	<0.1	
3/21/2017	<0.1	
5/23/2017	<0.1	
10/17/2017	<0.1	
6/1/2018	<0.1	
11/7/2018	<0.1	
4/23/2019	<0.1	
9/26/2019	<0.1	
4/13/2020	<0.1	
10/22/2020	0.0437 (J)	
3/16/2021	<0.1	
10/5/2021	<0.1	
3/15/2022		<0.1
10/4/2022		<0.1
4/19/2023		<0.1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	<0.0601 (B1)	
5/18/2016	<0.0601	
7/12/2016	0.026 (J)	
9/12/2016	<0.0601	
11/18/2016	<0.0601	
1/18/2017	<0.0601	
3/21/2017	<0.0601	
5/24/2017	<0.0601	
10/17/2017	0.025 (J)	
5/31/2018	0.022 (J)	
11/8/2018	<0.0601	
4/22/2019	<0.0601	
9/26/2019	0.042 (J)	
4/14/2020	<0.0601	
10/22/2020	0.0401 (J)	
3/16/2021	<0.0601	
10/5/2021	<0.0601	
3/16/2022		0.0927
10/5/2022		<0.0601
4/19/2023		0.0256 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	<0.0601	
11/18/2016	<0.0601	
1/18/2017	<0.0601	
2/10/2017	<0.0601	
3/21/2017	<0.0601	
4/14/2017	<0.0601	
5/23/2017	<0.0601	
6/26/2017	<0.0601	
10/17/2017	<0.0601	
5/31/2018	<0.0601	
11/8/2018	<0.0601	
4/22/2019	<0.0601	
9/26/2019	<0.0601	
4/13/2020	<0.0601	
10/21/2020	<0.0601	
3/16/2021	<0.0601	
10/5/2021	<0.0601	
3/15/2022		<0.0601
10/5/2022		<0.0601
4/20/2023		0.0318 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
3/23/2016	<1.9 (*)	
5/18/2016	1.8	
7/12/2016	1.9	
9/12/2016	2	
11/18/2016	2	
1/19/2017	1.8	
3/22/2017	1.8	
5/24/2017	2	
10/17/2017	2	
5/31/2018	1.8	
11/7/2018	2	
4/22/2019	1.71	
9/27/2019	1.99	
4/13/2020	2.03	
10/22/2020	2.02	
3/16/2021	1.74	
10/5/2021	1.87	
3/15/2022		1.87
10/4/2022		1.3
4/19/2023		1.65

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	<5.9 (*)	
5/18/2016	5.5	
7/12/2016	5.3	
9/12/2016	4.9	
11/19/2016	4.8	
1/18/2017	3.8	
3/22/2017	3.3	
5/24/2017	3.6	
10/17/2017	3.7	
6/1/2018	2.8	
11/7/2018	2.9	
4/23/2019	2.76	
9/26/2019	2.4	
4/13/2020	2.74	
10/22/2020	2.17	
3/16/2021	2.4	
10/5/2021	1.89	
3/15/2022		2.59
10/4/2022		2.56
4/19/2023		2.63

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	1.3 (B1)	
5/18/2016	1.2	
7/12/2016	1.1	
9/12/2016	1.4	
11/19/2016	1.3	
1/19/2017	1.3	
3/21/2017	1.3	
5/23/2017	1.4	
10/17/2017	1.1	
6/1/2018	0.97	
11/7/2018	1.1	
4/23/2019	1.01	
9/26/2019	1.08	
4/13/2020	1.22	
10/22/2020	1.35	
3/16/2021	1.41	
10/5/2021	0.632	
3/15/2022		0.703
10/4/2022		1.11
4/19/2023		0.682

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	0.61 (B1)	
5/18/2016	0.89	
7/11/2016	0.82	
9/13/2016	0.82	
11/17/2016	0.75	
1/18/2017	0.58	
3/21/2017	0.6	
5/23/2017	0.65	
10/17/2017	1.1	
12/15/2017	0.89 (RS)	
5/31/2018	1.1	
11/8/2018	0.76	
4/22/2019	1.09	
9/26/2019	0.758	
4/14/2020	0.92	
10/21/2020	0.798	
3/16/2021	0.681	
10/5/2021	0.793	
3/15/2022		1.18
10/5/2022		1.19
4/20/2023		1.07

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	1.4 (B1)	
5/18/2016	1	
7/12/2016	1.1	
9/12/2016	0.98	
11/18/2016	1	
1/18/2017	1	
3/21/2017	0.91	
5/24/2017	0.96	
10/17/2017	0.96	
5/31/2018	1.1	
11/8/2018	0.96	
4/22/2019	0.946	
9/26/2019	1.11	
4/13/2020	1.03	
10/22/2020	0.969	
3/16/2021	1.12	
10/5/2021	0.883	
3/16/2022		1.04
10/5/2022		0.755
4/20/2023		0.855

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	0.93 (B1)	
5/18/2016	0.85	
7/12/2016	0.69	
9/12/2016	0.86	
11/18/2016	0.41	
1/18/2017	0.81	
3/21/2017	0.76	
5/24/2017	0.8	
10/17/2017	0.69	
5/31/2018	0.75	
11/8/2018	0.78	
4/22/2019	0.531	
9/26/2019	0.631	
4/14/2020	0.627	
10/22/2020	0.553	
3/16/2021	0.57	
10/5/2021	0.43 (J)	
3/16/2022		0.406 (J)
10/5/2022		0.285 (J)
4/19/2023		0.368 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	0.92	
11/18/2016	0.68	
1/18/2017	0.64	
2/10/2017	0.58	
3/21/2017	0.56	
4/14/2017	0.51	
5/23/2017	0.54	
6/26/2017	0.66	
10/17/2017	0.58	
5/31/2018	0.56	
11/8/2018	0.57	
4/22/2019	0.634	
9/26/2019		1.24
4/13/2020		0.687
10/21/2020		0.806
3/16/2021		2.23
10/5/2021		3.67
3/15/2022		5.84
10/5/2022		2.16
4/20/2023		15.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
11/16/2006	8.5	
2/5/2007	8.8	
4/12/2007	9.5	
10/17/2007	12.1	
4/17/2008	13.1	
10/24/2008	13.7	
4/21/2009	11.9	
10/26/2009	11	
4/12/2010	12.5	
10/30/2010	10.8	
5/25/2011	10	
5/25/2012	10.9	
5/28/2013	11.4	
5/31/2014	9.2	
5/29/2015	11.5	
3/23/2016	13	
5/18/2016	13	
7/12/2016	13	
9/12/2016	13	
11/18/2016	14	
1/19/2017	13	
3/22/2017	15	
5/24/2017	14	
10/17/2017	15	
5/31/2018	12	
11/7/2018	14	
4/22/2019	13.3	
9/27/2019	13.4	
4/13/2020	14.2	
10/22/2020	17.4	
3/16/2021	13.3	
10/5/2021	12.5	
3/15/2022		13.6
10/4/2022		12
4/19/2023		12.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/9/2023 5:26 PM View: Inrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	8.8 (B1)	
5/18/2016	7.2	
7/12/2016	7.5	
9/12/2016	8.4	
11/19/2016	12	
1/18/2017	11	
3/22/2017	11	
5/24/2017	10	
10/17/2017	10	
6/1/2018	9.9	
11/7/2018	10	
4/23/2019	9.3	
9/26/2019	8.35	
4/13/2020	7.9	
10/22/2020	6.5	
3/16/2021	7.32	
10/5/2021	6.59	
3/15/2022		8.36
10/4/2022		11.2
4/19/2023		10.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	8.4 (B1)	
5/18/2016	6	
7/12/2016	7.1	
9/12/2016	7.3	
11/19/2016	8.9	
1/19/2017	8.3	
3/21/2017	8.8	
5/23/2017	9.3	
10/17/2017	7.1	
6/1/2018	6.4	
11/7/2018	8	
4/23/2019	6.75	
9/26/2019	7.66	
4/13/2020	7.74	
10/22/2020	8.69	
3/16/2021	8.94	
10/5/2021	9.3	
3/15/2022		5.55
10/4/2022		8.22
4/19/2023		5.21

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	6.9 (B1)	
5/18/2016	5.4	
7/11/2016	8.1	
9/13/2016	6.2	
11/17/2016	7.3	
1/18/2017	6.3	
3/21/2017	7.3	
5/23/2017	7.4	
10/17/2017	9.9	
12/19/2017	7.8 (RS)	
5/31/2018	8.7	
11/8/2018	7.6	
4/22/2019	10.2	
6/25/2019	9.4	
9/26/2019	6.54	
4/14/2020	7.03	
10/21/2020	7.36	
3/16/2021	7.14	
10/5/2021	6.55	
3/15/2022		10.8
10/5/2022		11.7
4/20/2023		10

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	7.3 (B1)	
5/18/2016	6	
7/12/2016	5.7	
9/12/2016	5.7	
11/18/2016	8.2	
1/18/2017	7.4	
3/21/2017	7.9	
5/24/2017	7.4	
10/17/2017	6.5	
5/31/2018	6.5	
11/8/2018	6.9	
4/22/2019	6.64	
9/26/2019	6.7	
4/13/2020	6.46	
10/22/2020	6.37	
3/16/2021	6.97	
10/5/2021	5.91	
3/16/2022		7
10/5/2022		5.51
4/20/2023		5.73

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	11 (B1)	
5/18/2016	8.4	
7/12/2016	7.9	
9/12/2016	7.6	
11/18/2016	8.5	
1/18/2017	9.2	
3/21/2017	10	
5/24/2017	10	
10/17/2017	8.6	
5/31/2018	6.9	
11/8/2018	8.7	
4/22/2019	6.17	
9/26/2019	6.09	
4/14/2020	6.15	
10/22/2020	6.89	
3/16/2021	8.18	
10/5/2021	5.72	
3/16/2022		6.05
10/5/2022		4.97
4/19/2023		5.08

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	5	
11/18/2016	<6.3 (*)	
1/18/2017	5.3	
2/10/2017	5.4	
3/21/2017	5.3	
4/14/2017	4.9 (B)	
5/23/2017	5.5	
6/26/2017	5.4	
10/17/2017	5.4	
5/31/2018	5	
11/8/2018	5.2	
4/22/2019	4.91	
9/26/2019	5.03	
4/13/2020	4.9	
10/21/2020	5.25	
3/16/2021	5.72	
10/5/2021	5.1	
3/15/2022		6.91
10/5/2022		5.94
4/20/2023		4.84

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
3/23/2016	<0.1	
5/18/2016	<0.1	
7/12/2016	0.04 (J)	
9/12/2016	0.04 (J)	
11/18/2016	<0.1	
1/19/2017	<0.1	
3/22/2017	<0.1	
5/24/2017	<0.1	
10/17/2017	0.04 (J)	
5/31/2018	0.04 (J)	
11/7/2018	0.05 (J)	
4/22/2019	0.0353 (J)	
9/27/2019	0.0438 (J)	
4/13/2020	0.0672 (J)	
10/22/2020	<0.1	
3/16/2021	0.0269 (J)	
10/5/2021	0.0561 (J)	
3/15/2022		<0.1
10/4/2022		0.0281 (J)
4/19/2023		0.0416 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	<0.026 (B1)	
5/18/2016	<0.026	
7/12/2016	<0.026	
9/12/2016	<0.026	
11/19/2016	<0.026	
1/18/2017	<0.026	
3/22/2017	<0.026	
5/24/2017	<0.026	
10/17/2017	<0.026	
6/1/2018	<0.026	
11/7/2018	<0.026	
4/23/2019	0.0335 (J)	
9/26/2019	0.0272 (J)	
4/13/2020	0.0411 (J)	
10/22/2020	<0.026	
3/16/2021	<0.026	
10/5/2021	0.03 (J)	
3/15/2022		0.0364 (J)
10/4/2022		<0.026
4/19/2023		0.0415 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	<0.026 (B1)	
5/18/2016	<0.026	
7/12/2016	<0.026	
9/12/2016	<0.026	
11/19/2016	<0.026	
1/19/2017	<0.026	
3/21/2017	<0.026	
5/23/2017	<0.026	
10/17/2017	<0.026	
6/1/2018	<0.026	
11/7/2018	<0.026	
4/23/2019	0.0275 (J)	
9/26/2019	<0.026	
4/13/2020	0.0484 (J)	
10/22/2020	<0.026	
3/16/2021	<0.026	
10/5/2021	<0.026	
3/15/2022		0.0302 (J)
10/4/2022		<0.026
4/19/2023		0.0275 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	<0.026 (B1)	
5/18/2016	<0.026	
7/11/2016	<0.026	
9/13/2016	<0.026	
11/17/2016	<0.026	
1/18/2017	<0.026	
3/21/2017	<0.026	
5/23/2017	<0.026	
10/17/2017	<0.026	
5/31/2018	<0.026	
11/8/2018	<0.026	
4/22/2019	0.029 (J)	
9/26/2019	0.0302 (J)	
4/14/2020	0.0496 (J)	
10/21/2020	<0.026	
3/16/2021	<0.026	
10/5/2021	0.0264 (J)	
3/15/2022		0.0438 (J)
10/5/2022		<0.026
4/20/2023		0.0322 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	<0.026 (B1)	
5/18/2016	<0.026	
7/12/2016	<0.026	
9/12/2016	<0.026	
11/18/2016	<0.026	
1/18/2017	<0.026	
3/21/2017	<0.026	
5/24/2017	<0.026	
10/17/2017	<0.026	
5/31/2018	<0.026	
11/8/2018	<0.026	
4/22/2019	<0.026	
9/26/2019	0.0263 (J)	
4/13/2020	0.0511 (J)	
10/22/2020	<0.026	
3/16/2021	<0.026	
10/5/2021	<0.026	
3/16/2022		0.0399 (J)
10/5/2022		<0.026
4/20/2023		0.0271 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	<0.026 (B1)	
5/18/2016	<0.026	
7/12/2016	0.04 (J)	
9/12/2016	<0.026	
11/18/2016	<0.026	
1/18/2017	<0.026	
3/21/2017	<0.026	
5/24/2017	<0.026	
10/17/2017	<0.026	
5/31/2018	0.04 (J)	
11/8/2018	<0.026	
4/22/2019	0.0311 (J)	
9/26/2019	0.0366 (J)	
4/14/2020	0.0764 (J)	
10/22/2020	<0.026	
3/16/2021	0.0344 (J)	
10/5/2021	<0.026	
3/16/2022		<0.026
10/5/2022		<0.026
4/19/2023		0.0297 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	<0.026	
11/18/2016	<0.026	
1/18/2017	<0.026	
2/10/2017	<0.026	
3/21/2017	<0.026	
4/14/2017	<0.026	
5/23/2017	<0.026	
6/26/2017	<0.026	
10/17/2017	<0.026	
5/31/2018	<0.026	
11/8/2018	<0.026	
4/22/2019	<0.026	
9/26/2019	0.0287 (J)	
4/13/2020	0.0382 (J)	
10/21/2020	<0.026	
3/16/2021	0.0376 (J)	
10/5/2021	<0.026	
3/15/2022		0.0423 (J)
10/5/2022		<0.026
4/20/2023		0.0566 (J)

Prediction Limit

Constituent: pH (SU) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
3/23/2016	4.8	
5/18/2016	4.74	
7/12/2016	4.9	
9/12/2016	4.72	
11/18/2016	4.65	
1/19/2017	4.77	
3/22/2017	4.46	
5/24/2017	4.74	
10/17/2017	4.72	
11/30/2017	4.61	
5/31/2018	4.93	
11/7/2018	4.58	
4/22/2019	4.67	
9/27/2019	4.61	
4/13/2020	4.7	
10/22/2020	4.66	
3/16/2021	4.72	
10/5/2021	4.67	
3/15/2022		4.73
10/4/2022		4.62
4/19/2023		4.61

Prediction Limit

Constituent: pH (SU) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	5.4	
5/18/2016	5.38	
7/12/2016	5.65	
9/12/2016	5.14	
11/19/2016	5.05	
1/18/2017	5.11	
3/22/2017	4.86	
5/24/2017	5.02	
10/17/2017	5.01	
6/1/2018	5	
11/7/2018	4.81	
4/23/2019	4.93	
9/26/2019	4.99	
4/13/2020	4.96	
10/22/2020	5.09	
3/16/2021	5.06	
10/5/2021	4.98	
3/15/2022		5.07
10/4/2022		4.9
4/19/2023		4.8

Prediction Limit

Constituent: pH (SU) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	4.77	
5/18/2016	4.62	
7/12/2016	5.03	
9/12/2016	4.6	
11/19/2016	4.46	
1/19/2017	4.65	
3/21/2017	4.47	
5/23/2017	4.69	
10/17/2017	4.62	
6/1/2018	4.87	
11/7/2018	4.61	
4/23/2019	4.77	
9/26/2019	4.84	
4/13/2020	4.71	
10/22/2020	4.78	
3/16/2021	4.65	
10/5/2021	4.85	
3/15/2022		4.87
10/4/2022		4.71
4/19/2023		4.7

Prediction Limit

Constituent: pH (SU) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	4.68	
5/18/2016	4.67	
7/11/2016	4.75	
9/13/2016	4.56	
11/17/2016	4.6	
1/18/2017	4.68	
3/21/2017	4.39	
5/23/2017	4.61	
10/17/2017	4.51	
5/31/2018	4.75	
11/8/2018	4.71	
4/22/2019	4.49	
9/26/2019	4.62	
4/14/2020	4.61	
10/21/2020	4.5	
3/16/2021	4.62	
10/5/2021	4.6	
3/15/2022		4.58
10/5/2022		4.52
4/20/2023		4.5

Prediction Limit

Constituent: pH (SU) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	4.89	
5/18/2016	5.09	
7/12/2016	5.27	
9/12/2016	4.94	
11/18/2016	4.82	
1/18/2017	5.02	
3/21/2017	4.82	
5/24/2017	4.87	
10/17/2017	5	
5/31/2018	5.42	
11/8/2018	5.02	
4/22/2019	4.94	
9/26/2019	5.01	
4/13/2020	4.99	
10/22/2020	5.01	
3/16/2021	5	
10/5/2021	4.88	
3/16/2022		4.91
10/5/2022		5
4/20/2023		4.79

Prediction Limit

Constituent: pH (SU) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	4.63	
5/18/2016	4.58	
7/12/2016	4.7	
9/12/2016	4.6	
11/18/2016	4.52	
1/18/2017	4.63	
3/21/2017	4.45	
5/24/2017	4.55	
10/17/2017	4.61	
5/31/2018	4.84	
11/8/2018	4.63	
4/22/2019	4.64	
9/26/2019	4.71	
4/14/2020	4.75	
10/22/2020	4.7	
10/5/2021	4.68	
3/16/2022		4.79
10/5/2022		4.7
4/19/2023		4.65

Prediction Limit

Constituent: pH (SU) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	5.55	
11/18/2016	5.14	
1/18/2017	5.27	
2/10/2017	5.14	
3/21/2017	4.96	
4/14/2017	5.07	
5/23/2017	5.01	
6/26/2017	4.93	
10/17/2017	4.93	
11/30/2017	4.81	
5/31/2018	5.11	
11/8/2018	5.09	
4/22/2019	4.97	
9/26/2019	5.19	
4/13/2020	5.06	
10/21/2020	5.05	
3/16/2021	5.35	
10/5/2021	5.53	
3/15/2022		5.82
10/5/2022		5.3
4/20/2023		6.06

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
11/16/2006	5	
2/5/2007	<5	
4/12/2007	<5	
10/17/2007	5.7	
4/17/2008	7	
10/24/2008	6.6	
4/21/2009	5.2	
10/26/2009	8.3	
4/12/2010	6.8	
10/30/2010	10.8	
5/25/2011	11.5	
5/25/2012	8.2	
5/28/2013	6.9	
5/31/2014	3.5	
5/29/2015	3.3	
3/23/2016	1.8 (J)	
5/18/2016	4.1	
7/12/2016	3.8 (J)	
9/12/2016	3.9 (J)	
11/18/2016	5.4	
1/19/2017	<5	
3/22/2017	<5	
5/24/2017	2 (J)	
10/17/2017	<5	
5/31/2018	3 (J)	
11/7/2018	3.1 (J)	
4/22/2019	2.22	
9/27/2019	2.36	
4/13/2020	2.47	
10/22/2020	2.01	
3/16/2021	2.15	
10/5/2021	2.57	
3/15/2022		2.88
10/4/2022		2.04
4/19/2023		2.85

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	<0.756	
5/18/2016	1.9	
7/12/2016	2 (J)	
9/12/2016	2 (J)	
11/19/2016	1.7 (J)	
1/18/2017	<0.756	
3/22/2017	<0.756	
5/24/2017	<0.756	
10/17/2017	<0.756	
6/1/2018	1.8 (J)	
11/7/2018	1.8 (J)	
4/23/2019	1.99	
9/26/2019	1.95	
4/13/2020	1.43	
10/22/2020	1.76	
3/16/2021	2.23	
10/5/2021	2.46	
3/15/2022		2.1
10/4/2022		<0.756
4/19/2023		1.93

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	<0.756	
5/18/2016	<0.756	
7/12/2016	<0.756	
9/12/2016	<0.756	
11/19/2016	<0.756	
1/19/2017	<0.756	
3/21/2017	<0.756	
5/23/2017	<0.756	
10/17/2017	<0.756	
6/1/2018	1.5 (J)	
11/7/2018	1.5 (J)	
4/23/2019	1.43	
9/26/2019	1.2	
4/13/2020	0.992 (J)	
10/22/2020	1.04	
3/16/2021	1.07	
10/5/2021	3.38	
3/15/2022		1.33
10/4/2022		<0.756
4/19/2023		2.42

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intradwell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	<5	
5/18/2016	<5	
7/11/2016	<5	
9/13/2016	1.7 (J)	
11/17/2016	<5	
1/18/2017	<5	
3/21/2017	<5	
5/23/2017	<5	
10/17/2017	<5	
5/31/2018	2.2 (J)	
11/8/2018	1.7 (J)	
4/22/2019	2.52	
9/26/2019	2.28	
4/14/2020	2.27	
10/21/2020	2.15	
3/16/2021	2	
10/5/2021	2.22	
3/15/2022		2.29
10/5/2022		1.4
4/20/2023		2.59

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	<5	
5/18/2016	1.4	
7/12/2016	1.8 (J)	
9/12/2016	2.2 (J)	
11/18/2016	1.5 (J)	
1/18/2017	1.5 (J)	
3/21/2017	<5	
5/24/2017	1.7 (J)	
10/17/2017	1.8 (J)	
5/31/2018	2.5 (J)	
11/8/2018	2.2 (J)	
4/22/2019	2.96	
9/26/2019	2.96	
4/13/2020	2.75	
10/22/2020	2.98	
3/16/2021	3.06	
10/5/2021	2.85	
3/16/2022		3.38
10/5/2022		2.05
4/20/2023		3.44

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	3 (J)	
5/18/2016	3.9 (J)	
7/12/2016	3.9 (J)	
9/12/2016	4.5 (J)	
11/18/2016	4.2 (J)	
1/18/2017	3.8 (J)	
3/21/2017	<5 (*)	
5/24/2017	3 (J)	
10/17/2017	3.4 (J)	
5/31/2018	4.1 (J)	
11/8/2018	3.3 (J)	
4/22/2019	4.66	
9/26/2019	4.23	
4/14/2020	3.96	
10/22/2020	3.37	
3/16/2021	3.18	
10/5/2021	3.83	
3/16/2022		7.04
10/5/2022		6.04
4/19/2023		7.48

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/9/2023 5:26 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	<5	
11/18/2016	<5	
1/18/2017	<5	
2/10/2017	<5	
3/21/2017	<5	
4/14/2017	1.5 (J)	
5/23/2017	<5	
6/26/2017	1.5 (J)	
10/17/2017	<5	
5/31/2018	1.9 (J)	
11/8/2018	1.5 (J)	
4/22/2019	2.09	
9/26/2019	2.1	
4/13/2020	1.69	
10/21/2020	1.31	
3/16/2021	2.72	
10/5/2021	1.91	
3/15/2022		4.86
10/5/2022		1.02
4/20/2023		3.73

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
3/23/2016	40	
5/18/2016	52	
7/12/2016	42	
9/12/2016	42	
11/18/2016	82	
1/19/2017	32	
3/22/2017	6	
5/24/2017	48	
10/17/2017	34	
5/31/2018	32	
11/7/2018	52	
4/22/2019	50	
9/27/2019	50	
4/13/2020	63	
10/22/2020	41	
3/16/2021	39	
10/5/2021	43	
3/15/2022		53
10/4/2022		53
4/19/2023		67

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	48 (B1)	
5/18/2016	26	
7/12/2016	24	
9/12/2016	32	
11/19/2016	76	
1/18/2017	48	
3/22/2017	30	
5/24/2017	46	
10/17/2017	8	
6/1/2018	44	
11/7/2018	26	
4/23/2019	48	
9/26/2019	39	
4/13/2020	28	
10/22/2020	25	
3/16/2021	41	
10/5/2021	29	
3/15/2022		56
10/4/2022		52
4/19/2023		41

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	34 (B1)	
5/18/2016	24	
7/12/2016	24	
9/12/2016	4 (J)	
11/19/2016	44	
1/19/2017	26	
3/21/2017	20	
5/23/2017	6	
10/17/2017	58	
12/15/2017	20 (RS)	
6/1/2018	26	
11/7/2018	8	
4/23/2019	34	
9/26/2019	32	
4/13/2020	39	
10/22/2020	34	
3/16/2021	34	
10/5/2021	25	
3/15/2022		51
10/4/2022		42
4/19/2023		31

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	42 (B1)	
5/18/2016	<5	
7/11/2016	<5	
9/13/2016	48	
11/17/2016	20	
1/18/2017	18	
3/21/2017	8	
5/23/2017	<5	
10/17/2017	58	
5/31/2018	24	
11/8/2018	4 (J)	
4/22/2019	46	
9/26/2019	27	
4/14/2020	36	
10/21/2020	33	
3/16/2021	27	
10/5/2021	29	
3/15/2022		34
10/5/2022		42
4/20/2023		37

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	32 (B1)	
5/18/2016	26	
7/12/2016	22	
9/12/2016	32	
11/18/2016	16	
1/18/2017	32	
3/21/2017	16	
5/24/2017	22	
10/17/2017	26	
5/31/2018	<3.4	
11/8/2018	36	
4/22/2019	24	
9/26/2019	25	
4/13/2020	27	
10/22/2020	29	
3/16/2021	37	
10/5/2021	34	
3/16/2022		55
10/5/2022		35
4/20/2023		30

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	28 (B1)	
5/18/2016	20	
7/12/2016	24	
9/12/2016	48	
11/18/2016	10	
1/18/2017	30	
3/21/2017	6	
5/24/2017	30	
10/17/2017	32	
5/31/2018	30	
11/8/2018	22	
4/22/2019	36	
9/26/2019	30	
4/14/2020	29	
10/22/2020	22	
3/16/2021	31	
10/5/2021	29	
3/16/2022		25
10/5/2022		34
4/19/2023		29

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/9/2023 5:26 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	12	
11/18/2016	14	
1/18/2017	20	
2/10/2017	28	
3/21/2017	20	
4/14/2017	14	
5/23/2017	<5	
6/26/2017	34	
10/17/2017	42	
5/31/2018	22	
11/8/2018	8	
4/22/2019	31	
9/26/2019	29	
4/13/2020	20	
10/21/2020	19	
3/16/2021	25	
10/5/2021	35	
3/15/2022		36
10/5/2022		31
4/20/2023		66

FIGURE E.

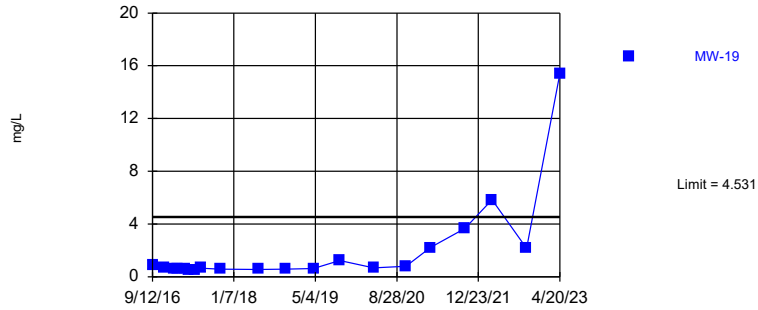
Appendix III Interwell Prediction Limits - Two-Step - All/Significant Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/12/2023, 8:14 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	4.531	n/a	4/20/2023	15.4	Yes	60	1.32	0.4539	3.333	None	sqrt(x)	0.00188	Param Inter 1 of 2
pH (SU)	MW-19	5.65	4.45	4/20/2023	6.06	Yes	60	n/a	n/a	0	n/a	n/a	0.001049	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	MW-19	64.48	n/a	4/20/2023	66	Yes	60	37.22	15.3	0	None	No	0.00188	Param Inter 1 of 2

Exceeds Limit: MW-19

Prediction Limit
Interwell Parametric

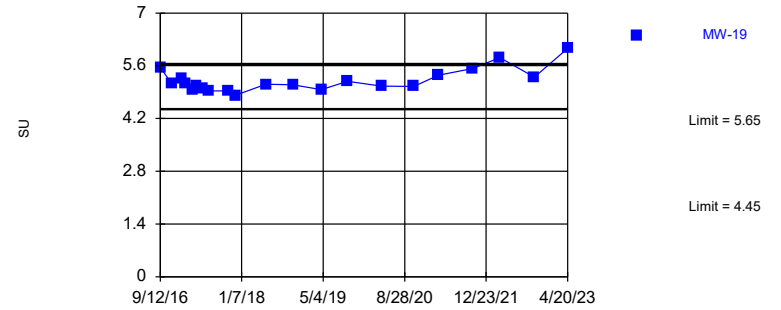


Background Data Summary (based on square root transformation): Mean=1.32, Std. Dev.=0.4539, n=60, 3.333% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.964, critical = 0.945. Kappa = 1.782 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Assumes 3 future values.

Constituent: Calcium Analysis Run 5/12/2023 8:13 AM View: Interwell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limits: MW-19

Prediction Limit
Interwell Non-parametric

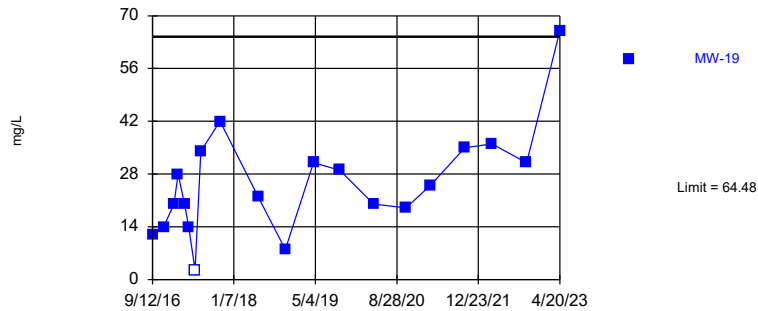


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 60 background values. Annual per-constituent alpha = 0.008374. Individual comparison alpha = 0.001049 (1 of 2). Assumes 3 future values.

Constituent: pH Analysis Run 5/12/2023 8:13 AM View: Interwell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit: MW-19

Prediction Limit
Interwell Parametric



Background Data Summary: Mean=37.22, Std. Dev.=15.3, n=60. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9597, critical = 0.945. Kappa = 1.782 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Assumes 3 future values.

Constituent: Total Dissolved Solids Analysis Run 5/12/2023 8:13 AM View: Interwell
Plant Daniel Client: Southern Company Data: NAMU CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2023 8:14 AM View: Interwell

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18 (bg)	MW-11 (bg)	MW-14 (bg)	MW-19
3/22/2016	0.93 (B1)			
3/23/2016		<5.9 (*)	<5.9 (*)	
5/18/2016	0.85	1.8	5.5	
7/12/2016	0.69	1.9	5.3	
9/12/2016	0.86	2	4.9	0.92
11/18/2016	0.41	2		0.68
11/19/2016			4.8	
1/18/2017	0.81		3.8	0.64
1/19/2017		1.8		
2/10/2017				0.58
3/21/2017	0.76			0.56
3/22/2017		1.8	3.3	
4/14/2017				0.51
5/23/2017				0.54
5/24/2017	0.8	2	3.6	
6/26/2017				0.66
10/17/2017	0.69	2	3.7	0.58
5/31/2018	0.75	1.8		0.56
6/1/2018			2.8	
11/7/2018		2	2.9	
11/8/2018	0.78			0.57
4/22/2019	0.531	1.71		0.634
4/23/2019			2.76	
9/26/2019	0.631		2.4	1.24
9/27/2019		1.99		
4/13/2020		2.03	2.74	0.687
4/14/2020	0.627			
10/21/2020				0.806
10/22/2020	0.553	2.02	2.17	
3/16/2021	0.57	1.74	2.4	2.23
10/5/2021	0.43 (J)	1.87	1.89	3.67
3/15/2022		1.87	2.59	5.84
3/16/2022	0.406 (J)			
10/4/2022		1.3	2.56	
10/5/2022	0.285 (J)			2.16
4/19/2023	0.368 (J)	1.65	2.63	
4/20/2023				15.4

Prediction Limit

Constituent: pH (SU) Analysis Run 5/12/2023 8:14 AM View: Interwell

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18 (bg)	MW-11 (bg)	MW-14 (bg)	MW-19
3/22/2016	4.63			
3/23/2016		4.8	5.4	
5/18/2016	4.58	4.74	5.38	
7/12/2016	4.7	4.9	5.65	
9/12/2016	4.6	4.72	5.14	5.55
11/18/2016	4.52	4.65		5.14
11/19/2016			5.05	
1/18/2017	4.63		5.11	5.27
1/19/2017		4.77		
2/10/2017				5.14
3/21/2017	4.45			4.96
3/22/2017		4.46	4.86	
4/14/2017				5.07
5/23/2017				5.01
5/24/2017	4.55	4.74	5.02	
6/26/2017				4.93
10/17/2017	4.61	4.72	5.01	4.93
11/30/2017		4.61		4.81
5/31/2018	4.84	4.93		5.11
6/1/2018			5	
11/7/2018		4.58	4.81	
11/8/2018	4.63			5.09
4/22/2019	4.64	4.67		4.97
4/23/2019			4.93	
9/26/2019	4.71		4.99	5.19
9/27/2019		4.61		
4/13/2020		4.7	4.96	5.06
4/14/2020	4.75			
10/21/2020				5.05
10/22/2020	4.7	4.66	5.09	
3/16/2021		4.72	5.06	5.35
10/5/2021	4.68	4.67	4.98	5.53
3/15/2022		4.73	5.07	5.82
3/16/2022	4.79			
10/4/2022		4.62	4.9	
10/5/2022	4.7			5.3
4/19/2023	4.65	4.61	4.8	
4/20/2023				6.06

Prediction Limit

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 5/12/2023 8:14 AM View: Interwell

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18 (bg)	MW-11 (bg)	MW-14 (bg)	MW-19
3/22/2016	28 (B1)			
3/23/2016		40	48 (B1)	
5/18/2016	20	52	26	
7/12/2016	24	42	24	
9/12/2016	48	42	32	12
11/18/2016	10	82		14
11/19/2016			76	
1/18/2017	30		48	20
1/19/2017		32		
2/10/2017				28
3/21/2017	6			20
3/22/2017		6	30	
4/14/2017				14
5/23/2017				<5
5/24/2017	30	48	46	
6/26/2017				34
10/17/2017	32	34	8	42
5/31/2018	30	32		22
6/1/2018			44	
11/7/2018		52	26	
11/8/2018	22			8
4/22/2019	36	50		31
4/23/2019			48	
9/26/2019	30		39	29
9/27/2019		50		
4/13/2020		63	28	20
4/14/2020	29			
10/21/2020				19
10/22/2020	22	41	25	
3/16/2021	31	39	41	25
10/5/2021	29	43	29	35
3/15/2022		53	56	36
3/16/2022	25			
10/4/2022		53	52	
10/5/2022	34			31
4/19/2023	29	67	41	
4/20/2023				66

FIGURE F.

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/12/2023, 10:31 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	MW-14 (bg)	-0.363	-133	-81	Yes	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-18 (bg)	-0.07165	-129	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-19	0.2253	90	81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	MW-14 (bg)	-0.04668	-92	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-11 (bg)	-0.2485	-251	-184	Yes	35	14.29	n/a	n/a	0.01	NP

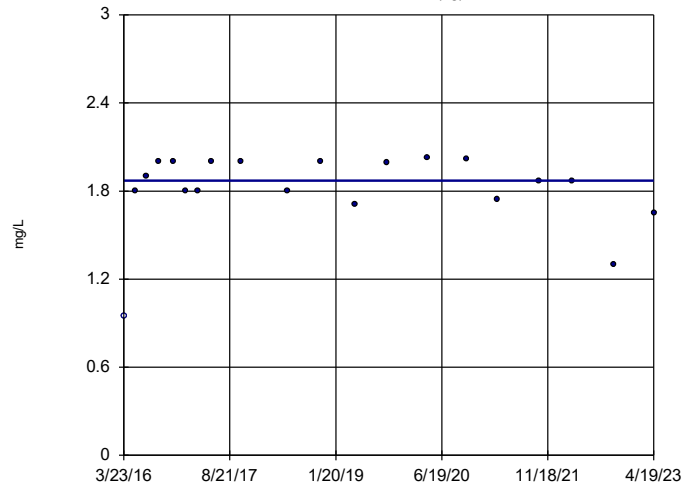
Trend Tests - Prediction Limit Exceedances - All Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 5/12/2023, 10:31 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	MW-11 (bg)	0	-11	-81	No	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-14 (bg)	-0.363	-133	-81	Yes	20	5	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-18 (bg)	-0.07165	-129	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	MW-19	0.2253	90	81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	MW-11 (bg)	-0.01735	-60	-87	No	21	0	n/a	n/a	0.01	NP
pH (SU)	MW-14 (bg)	-0.04668	-92	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (SU)	MW-18 (bg)	0.01861	67	74	No	19	0	n/a	n/a	0.01	NP
pH (SU)	MW-19	0.04749	44	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-11 (bg)	-0.2485	-251	-184	Yes	35	14.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-14 (bg)	0.04357	39	81	No	20	30	n/a	n/a	0.01	NP
Sulfate (mg/L)	MW-18 (bg)	0.2127	52	81	No	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-11 (bg)	1.963	49	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-14 (bg)	0.5865	13	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-18 (bg)	0.3801	24	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	MW-19	3.324	79	81	No	20	5	n/a	n/a	0.01	NP

Sen's Slope Estimator

MW-11 (bg)

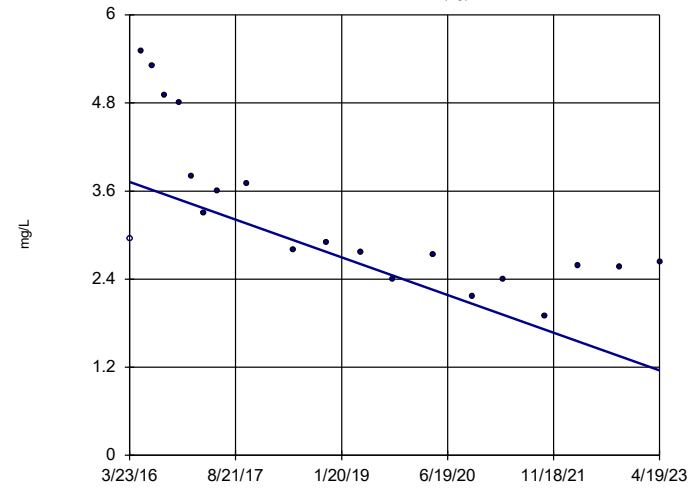


n = 20
Slope = 0
units per year.
Mann-Kendall
statistic = -11
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/12/2023 10:29 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-14 (bg)

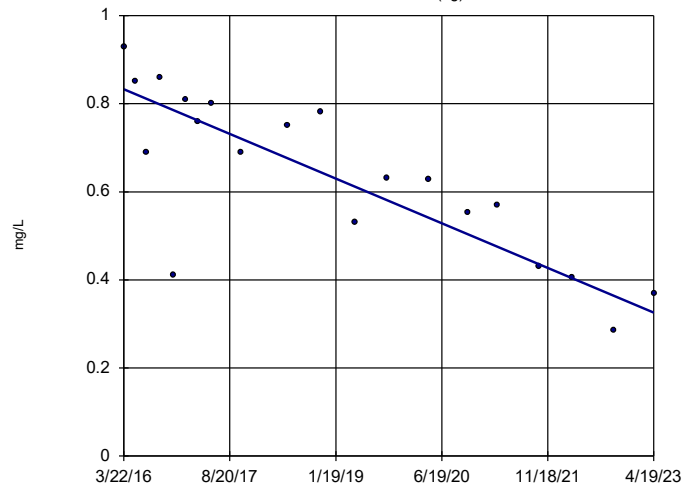


n = 20
Slope = -0.363
units per year.
Mann-Kendall
statistic = -133
critical = -81
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/12/2023 10:29 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-18 (bg)

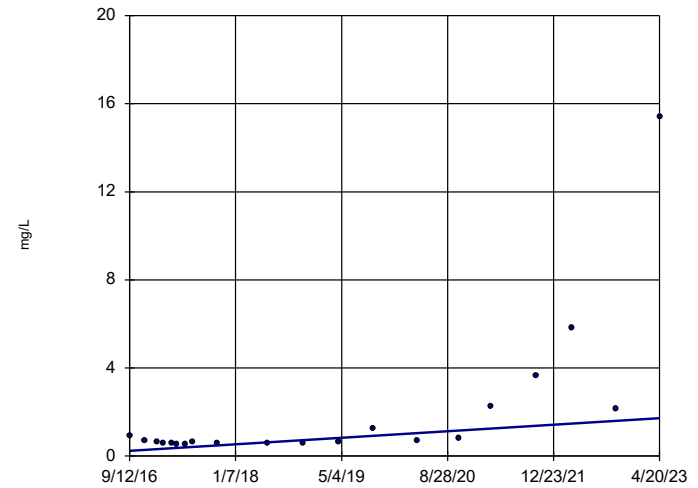


n = 20
Slope = -0.07165
units per year.
Mann-Kendall
statistic = -129
critical = -81
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/12/2023 10:29 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-19

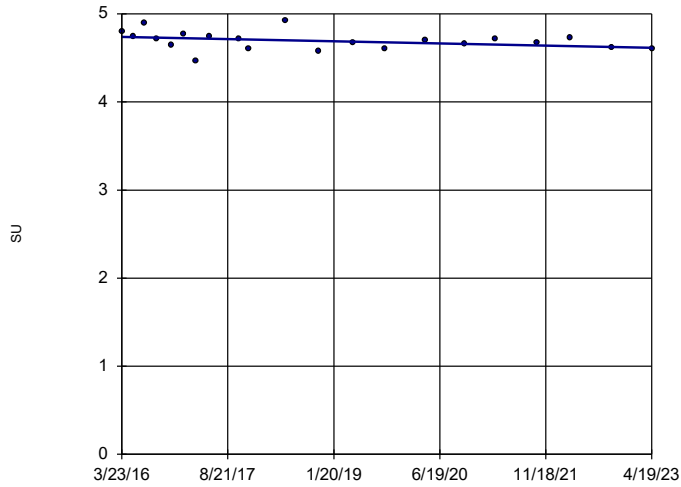


n = 20
Slope = 0.2253
units per year.
Mann-Kendall
statistic = 90
critical = 81
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium Analysis Run 5/12/2023 10:29 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-11 (bg)

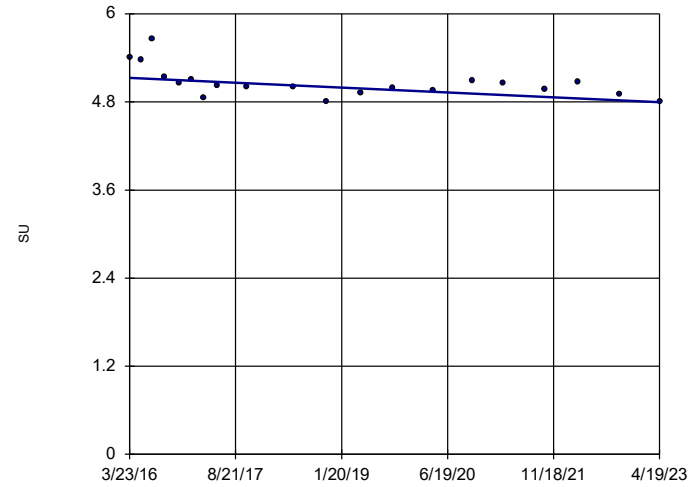


n = 21
 Slope = -0.01735
 units per year.
 Mann-Kendall
 statistic = -60
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 5/12/2023 10:29 AM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-14 (bg)

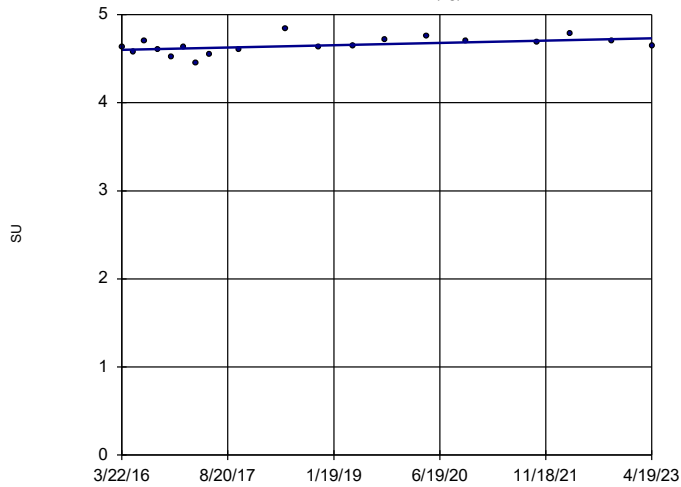


n = 20
 Slope = -0.04668
 units per year.
 Mann-Kendall
 statistic = -92
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 5/12/2023 10:29 AM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-18 (bg)

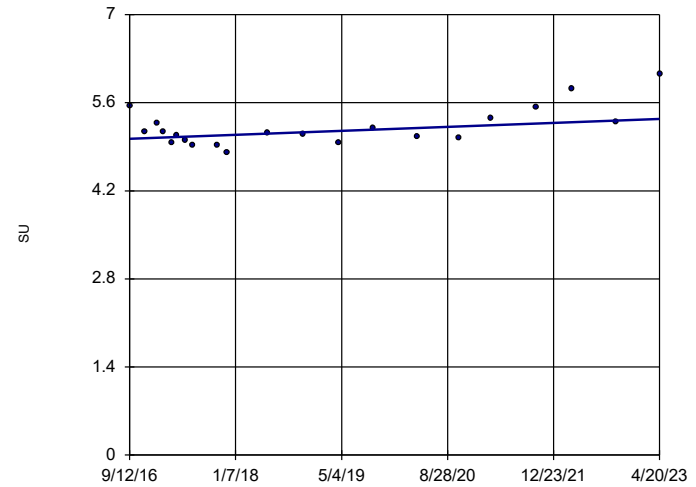


n = 19
 Slope = 0.01861
 units per year.
 Mann-Kendall
 statistic = 67
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 5/12/2023 10:29 AM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-19

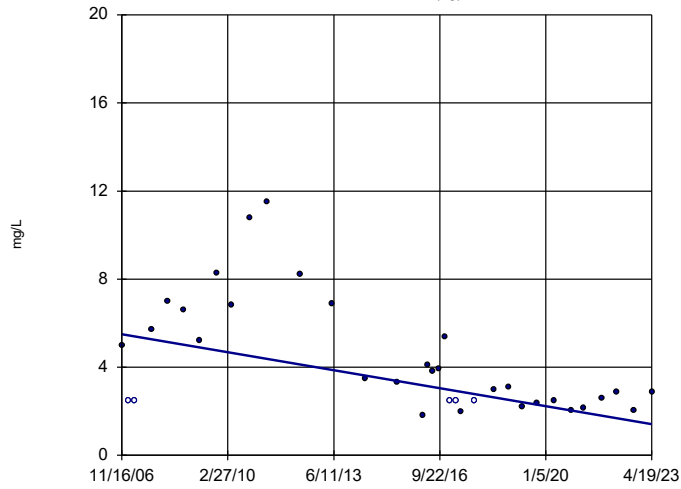


n = 21
 Slope = 0.04749
 units per year.
 Mann-Kendall
 statistic = 44
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH Analysis Run 5/12/2023 10:29 AM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

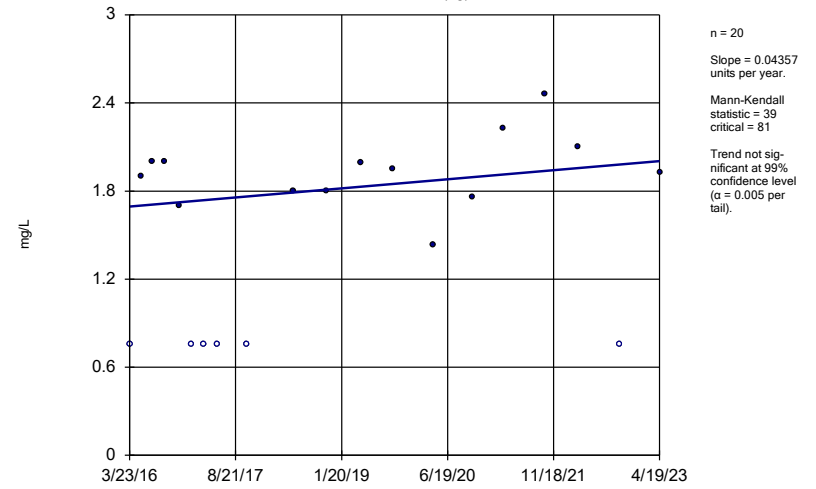
MW-11 (bg)



Constituent: Sulfate Analysis Run 5/12/2023 10:29 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

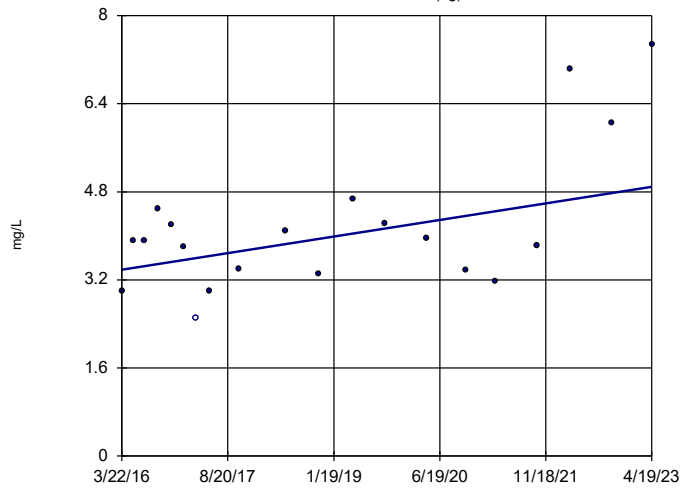
MW-14 (bg)



Constituent: Sulfate Analysis Run 5/12/2023 10:29 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

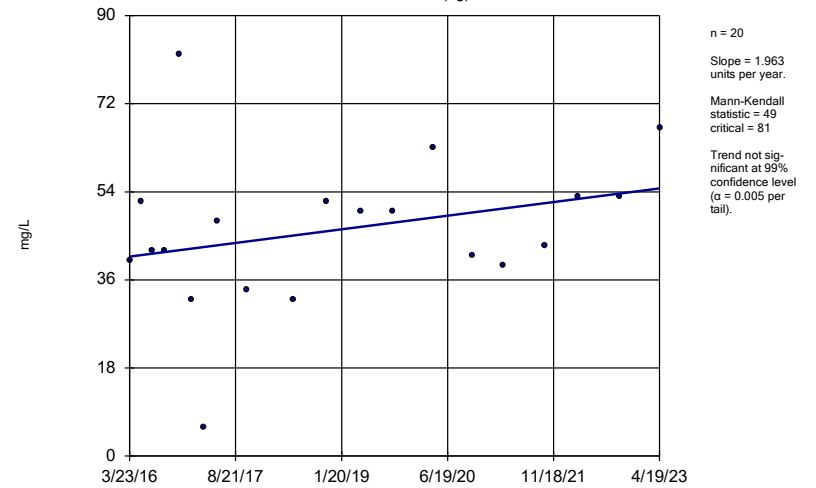
MW-18 (bg)



Constituent: Sulfate Analysis Run 5/12/2023 10:29 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

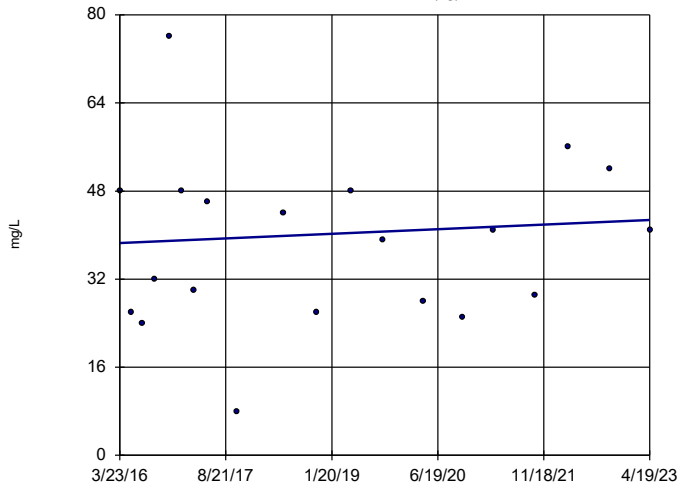
MW-11 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2023 10:29 AM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-14 (bg)

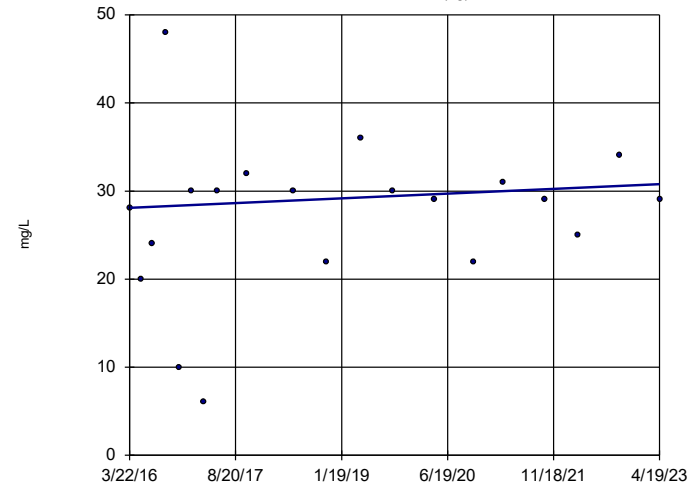


n = 20
 Slope = 0.5865
 units per year.
 Mann-Kendall
 statistic = 13
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2023 10:29 AM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-18 (bg)

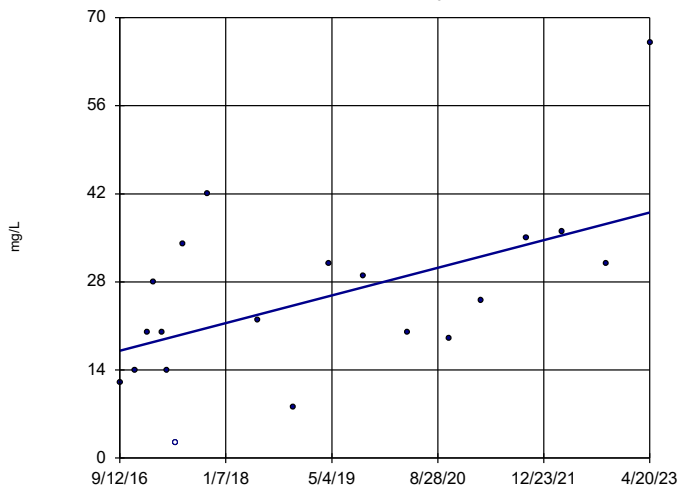


n = 20
 Slope = 0.3801
 units per year.
 Mann-Kendall
 statistic = 24
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2023 10:29 AM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-19



n = 20
 Slope = 3.324
 units per year.
 Mann-Kendall
 statistic = 79
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2023 10:29 AM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

FIGURE G.

Intrawell Prediction Limits - May 2023 Resample (Significant Results)

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 6/8/2023, 3:38 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	0.8608	n/a	5/24/2023	1.7	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-19	5.802	n/a	5/24/2023	6.84	Yes	17	706.2	208.1	5.882	None	x^4	0.00188	Param Intra 1 of 2

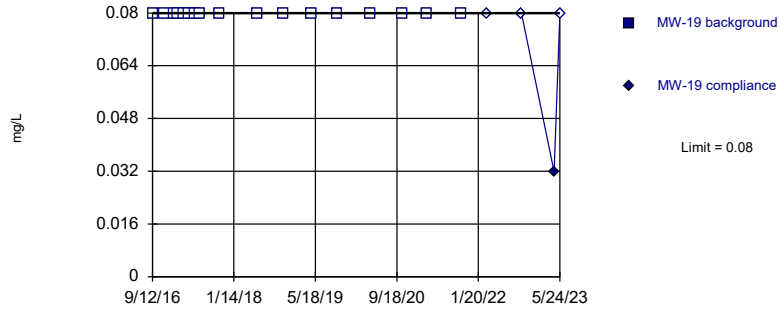
Intrawell Prediction Limits - May 2023 Resample (All Results)

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 6/8/2023, 3:38 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)	MW-19	0.08	n/a	5/24/2023	0.08ND	No	17	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Calcium (mg/L)	MW-19	0.8608	n/a	5/24/2023	1.7	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-19	5.802	n/a	5/24/2023	6.84	Yes	17	706.2	208.1	5.882	None	x^4	0.00188	Param Intra 1 of 2
Fluoride (mg/L)	MW-19	0.0382	n/a	5/24/2023	0.0849J	No	17	n/a	n/a	82.35	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (SU)	MW-19	5.525	4.715	5/24/2023	5.15	No	18	5.12	0.1992	0	None	No	0.0009398	Param Intra 1 of 2
Sulfate (mg/L)	MW-19	5	n/a	5/24/2023	2.62	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	MW-19	43.34	n/a	5/24/2023	32	No	17	22.09	10.35	5.882	None	No	0.00188	Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Non-parametric

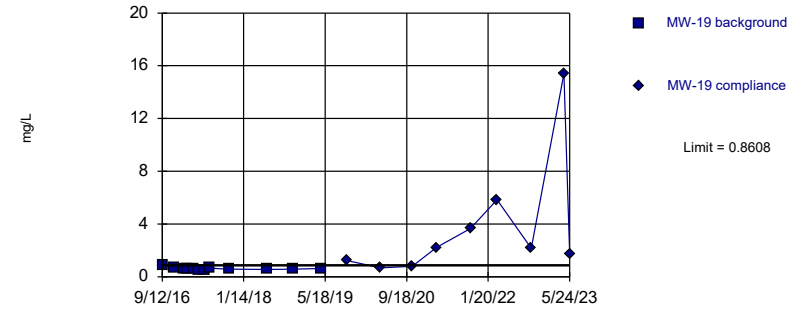


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Boron Analysis Run 6/8/2023 3:36 PM View: Intrawell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

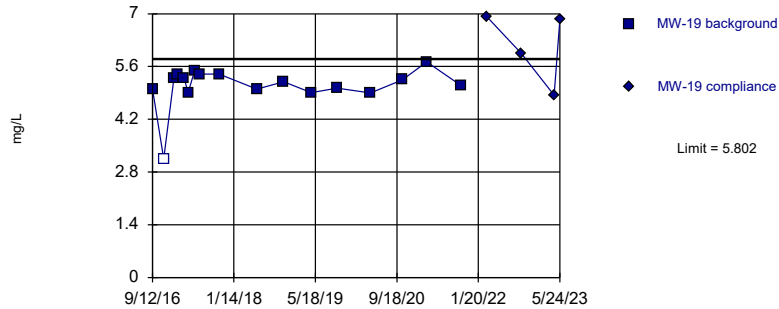


Background Data Summary (based on square root transformation): Mean=0.7847, Std. Dev.=0.06412, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8069, critical = 0.805. Kappa = 2.232 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 6/8/2023 3:36 PM View: Intrawell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

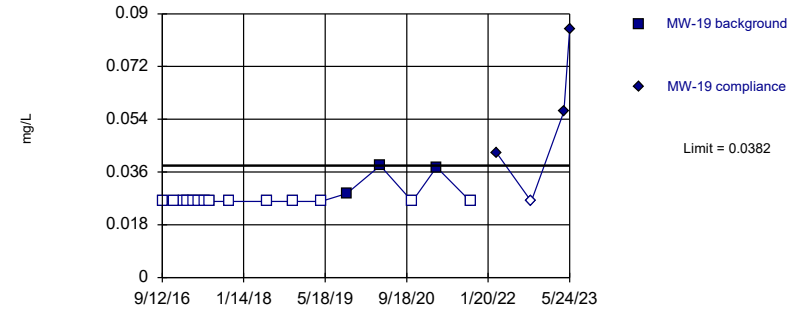


Background Data Summary (based on x^4 transformation): Mean=706.2, Std. Dev.=208.1, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.885, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 6/8/2023 3:36 PM View: Intrawell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

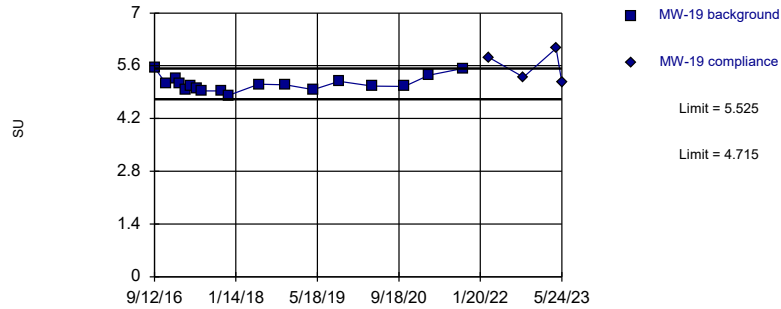


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 82.35% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 6/8/2023 3:36 PM View: Intrawell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit
Intrawell Parametric



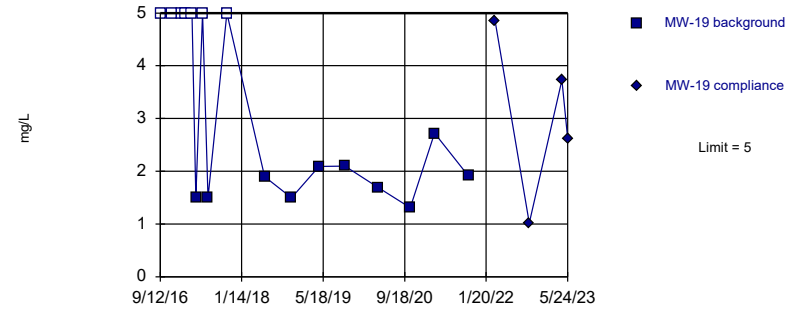
Background Data Summary: Mean=5.12, Std. Dev.=0.1992, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9196, critical = 0.858. Kappa = 2.032 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 6/8/2023 3:36 PM View: Intrawell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



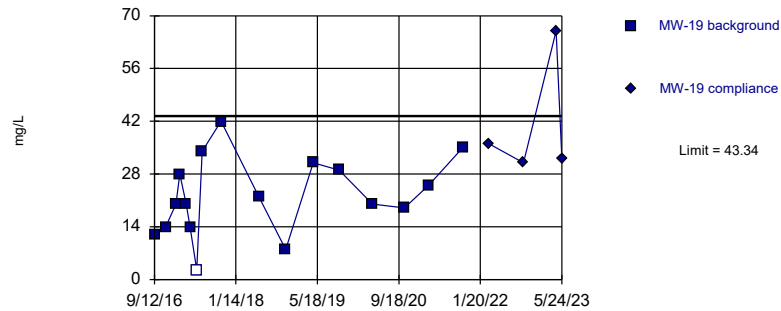
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. 41.18% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate Analysis Run 6/8/2023 3:36 PM View: Intrawell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=22.09, Std. Dev.=10.35, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9883, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 6/8/2023 3:36 PM View: Intrawell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 6/8/2023 3:38 PM View: Intrawell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	<0.08	
11/18/2016	<0.08	
1/18/2017	<0.08	
2/10/2017	<0.08	
3/21/2017	<0.08	
4/14/2017	<0.08	
5/23/2017	<0.08	
6/26/2017	<0.08	
10/17/2017	<0.08	
5/31/2018	<0.08	
11/8/2018	<0.08	
4/22/2019	<0.08	
9/26/2019	<0.08	
4/13/2020	<0.08	
10/21/2020	<0.08	
3/16/2021	<0.08	
10/5/2021	<0.08	
3/15/2022		<0.08
10/5/2022		<0.08
4/20/2023		0.0318 (J)
5/24/2023		<0.08

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/8/2023 3:38 PM View: IntraWell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	0.92	
11/18/2016	0.68	
1/18/2017	0.64	
2/10/2017	0.58	
3/21/2017	0.56	
4/14/2017	0.51	
5/23/2017	0.54	
6/26/2017	0.66	
10/17/2017	0.58	
5/31/2018	0.56	
11/8/2018	0.57	
4/22/2019	0.634	
9/26/2019		1.24
4/13/2020		0.687
10/21/2020		0.806
3/16/2021		2.23
10/5/2021		3.67
3/15/2022		5.84
10/5/2022		2.16
4/20/2023		15.4
5/24/2023		1.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/8/2023 3:38 PM View: IntraWell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	5	
11/18/2016	<6.3 (*)	
1/18/2017	5.3	
2/10/2017	5.4	
3/21/2017	5.3	
4/14/2017	4.9 (B)	
5/23/2017	5.5	
6/26/2017	5.4	
10/17/2017	5.4	
5/31/2018	5	
11/8/2018	5.2	
4/22/2019	4.91	
9/26/2019	5.03	
4/13/2020	4.9	
10/21/2020	5.25	
3/16/2021	5.72	
10/5/2021	5.1	
3/15/2022		6.91
10/5/2022		5.94
4/20/2023		4.84
5/24/2023		6.84

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 6/8/2023 3:38 PM View: IntraWell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	<0.026	
11/18/2016	<0.026	
1/18/2017	<0.026	
2/10/2017	<0.026	
3/21/2017	<0.026	
4/14/2017	<0.026	
5/23/2017	<0.026	
6/26/2017	<0.026	
10/17/2017	<0.026	
5/31/2018	<0.026	
11/8/2018	<0.026	
4/22/2019	<0.026	
9/26/2019	0.0287 (J)	
4/13/2020	0.0382 (J)	
10/21/2020	<0.026	
3/16/2021	0.0376 (J)	
10/5/2021	<0.026	
3/15/2022		0.0423 (J)
10/5/2022		<0.026
4/20/2023		0.0566 (J)
5/24/2023		0.0849 (J)

Prediction Limit

Constituent: pH (SU) Analysis Run 6/8/2023 3:38 PM View: Intrawell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	5.55	
11/18/2016	5.14	
1/18/2017	5.27	
2/10/2017	5.14	
3/21/2017	4.96	
4/14/2017	5.07	
5/23/2017	5.01	
6/26/2017	4.93	
10/17/2017	4.93	
11/30/2017	4.81	
5/31/2018	5.11	
11/8/2018	5.09	
4/22/2019	4.97	
9/26/2019	5.19	
4/13/2020	5.06	
10/21/2020	5.05	
3/16/2021	5.35	
10/5/2021	5.53	
3/15/2022		5.82
10/5/2022		5.3
4/20/2023		6.06
5/24/2023		5.15

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 6/8/2023 3:38 PM View: IntraWell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	<5	
11/18/2016	<5	
1/18/2017	<5	
2/10/2017	<5	
3/21/2017	<5	
4/14/2017	1.5 (J)	
5/23/2017	<5	
6/26/2017	1.5 (J)	
10/17/2017	<5	
5/31/2018	1.9 (J)	
11/8/2018	1.5 (J)	
4/22/2019	2.09	
9/26/2019	2.1	
4/13/2020	1.69	
10/21/2020	1.31	
3/16/2021	2.72	
10/5/2021	1.91	
3/15/2022		4.86
10/5/2022		1.02
4/20/2023		3.73
5/24/2023		2.62

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 6/8/2023 3:38 PM View: IntraWell Resample
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	12	
11/18/2016	14	
1/18/2017	20	
2/10/2017	28	
3/21/2017	20	
4/14/2017	14	
5/23/2017	<5	
6/26/2017	34	
10/17/2017	42	
5/31/2018	22	
11/8/2018	8	
4/22/2019	31	
9/26/2019	29	
4/13/2020	20	
10/21/2020	19	
3/16/2021	25	
10/5/2021	35	
3/15/2022		36
10/5/2022		31
4/20/2023		66
5/24/2023		32

FIGURE H.

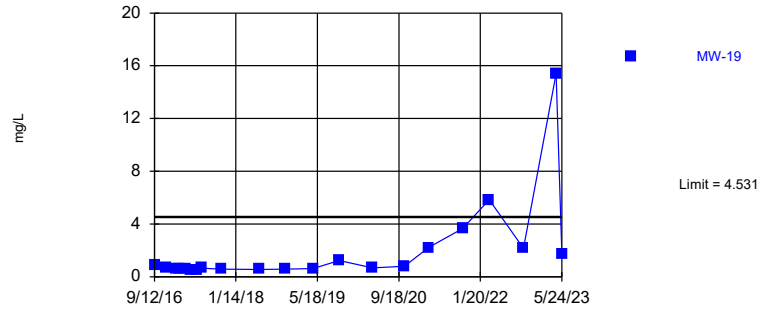
Interwell Prediction Limits - Two-Step - May 2023 Resample (No Significant)

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 6/8/2023, 3:40 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg. N	Bg. Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	4.531	n/a	5/24/2023	1.7	No	60	1.32	0.4539	3.333	None	sqrt(x)	0.00188	Param Inter 1 of 2
Chloride (mg/L)	MW-19	15.13	n/a	5/24/2023	6.84	No	75	10.26	2.757	0	None	No	0.00188	Param Inter 1 of 2

Within Limit

Prediction Limit
Interwell Parametric

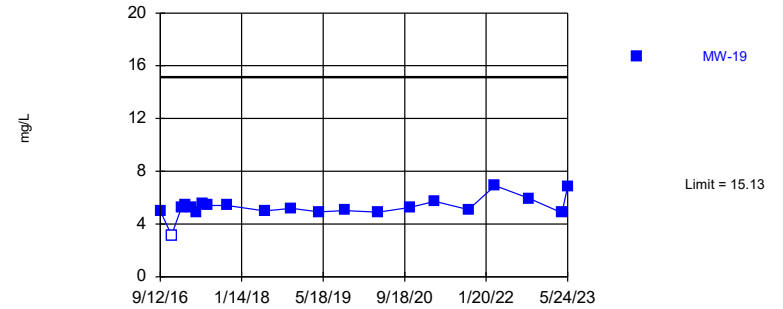


Background Data Summary (based on square root transformation): Mean=1.32, Std. Dev.=0.4539, n=60, 3.333% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.964, critical = 0.945. Kappa = 1.782 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Assumes 3 future values.

Constituent: Calcium Analysis Run 6/8/2023 3:39 PM View: Interwell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary: Mean=10.26, Std. Dev.=2.757, n=75. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9844, critical = 0.956. Kappa = 1.767 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Assumes 3 future values.

Constituent: Chloride Analysis Run 6/8/2023 3:39 PM View: Interwell
Plant Daniel Client: Southern Company Data: NAMU CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 6/8/2023 3:40 PM View: Interwell

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18 (bg)	MW-14 (bg)	MW-11 (bg)	MW-19
3/22/2016	0.93 (B1)			
3/23/2016		<5.9 (*)	<5.9 (*)	
5/18/2016	0.85	5.5	1.8	
7/12/2016	0.69	5.3	1.9	
9/12/2016	0.86	4.9	2	0.92
11/18/2016	0.41		2	0.68
11/19/2016		4.8		
1/18/2017	0.81	3.8		0.64
1/19/2017			1.8	
2/10/2017				0.58
3/21/2017	0.76			0.56
3/22/2017		3.3	1.8	
4/14/2017				0.51
5/23/2017				0.54
5/24/2017	0.8	3.6	2	
6/26/2017				0.66
10/17/2017	0.69	3.7	2	0.58
5/31/2018	0.75		1.8	0.56
6/1/2018		2.8		
11/7/2018		2.9	2	
11/8/2018	0.78			0.57
4/22/2019	0.531		1.71	0.634
4/23/2019		2.76		
9/26/2019	0.631	2.4		1.24
9/27/2019			1.99	
4/13/2020		2.74	2.03	0.687
4/14/2020	0.627			
10/21/2020				0.806
10/22/2020	0.553	2.17	2.02	
3/16/2021	0.57	2.4	1.74	2.23
10/5/2021	0.43 (J)	1.89	1.87	3.67
3/15/2022		2.59	1.87	5.84
3/16/2022	0.406 (J)			
10/4/2022		2.56	1.3	
10/5/2022	0.285 (J)			2.16
4/19/2023	0.368 (J)	2.63	1.65	
4/20/2023				15.4
5/24/2023				1.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/8/2023 3:40 PM View: Interwell

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-18 (bg)	MW-14 (bg)	MW-19
11/16/2006	8.5			
2/5/2007	8.8			
4/12/2007	9.5			
10/17/2007	12.1			
4/17/2008	13.1			
10/24/2008	13.7			
4/21/2009	11.9			
10/26/2009	11			
4/12/2010	12.5			
10/30/2010	10.8			
5/25/2011	10			
5/25/2012	10.9			
5/28/2013	11.4			
5/31/2014	9.2			
5/29/2015	11.5			
3/22/2016		11 (B1)		
3/23/2016	13		8.8 (B1)	
5/18/2016	13	8.4	7.2	
7/12/2016	13	7.9	7.5	
9/12/2016	13	7.6	8.4	5
11/18/2016	14	8.5		<6.3 (*)
11/19/2016			12	
1/18/2017		9.2	11	5.3
1/19/2017	13			
2/10/2017				5.4
3/21/2017		10		5.3
3/22/2017	15		11	
4/14/2017				4.9 (B)
5/23/2017				5.5
5/24/2017	14	10	10	
6/26/2017				5.4
10/17/2017	15	8.6	10	5.4
5/31/2018	12	6.9		5
6/1/2018			9.9	
11/7/2018	14		10	
11/8/2018		8.7		5.2
4/22/2019	13.3	6.17		4.91
4/23/2019			9.3	
9/26/2019		6.09	8.35	5.03
9/27/2019	13.4			
4/13/2020	14.2		7.9	4.9
4/14/2020		6.15		
10/21/2020				5.25
10/22/2020	17.4	6.89	6.5	
3/16/2021	13.3	8.18	7.32	5.72
10/5/2021	12.5	5.72	6.59	5.1
3/15/2022	13.6		8.36	6.91
3/16/2022		6.05		
10/4/2022	12		11.2	
10/5/2022		4.97		5.94
4/19/2023	12.2	5.08	10.2	
4/20/2023				4.84

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 6/8/2023 3:40 PM View: Interwell
Plant Daniel Client: Southern Company Data: NAMU CCR

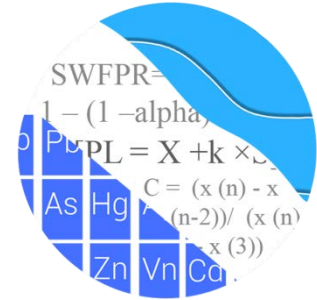
	MW-11 (bg)	MW-18 (bg)	MW-14 (bg)	MW-19
5/24/2023				6.84

2nd
Semi-Annual
Monitoring Event

GROUNDWATER STATS CONSULTING

January 31, 2024

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Daniel North Ash Management Unit (NAMU)
Statistical Analysis – October 2023

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the 2023 Groundwater Monitoring Annual report for Mississippi Power Company's Plant Daniel NAMU. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at Daniel NAMU for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** MW-11, MW-14, and MW-18
- **Downgradient wells:** MW-15, MW-16, MW-17, and MW-19

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

The CCR program monitors the constituents listed below. The terms "parameters" and "constituents" are used interchangeably throughout this report.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A list of well/constituent pairs containing 100% non-detects follow this letter.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. For calculating intrawell prediction limits, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case.

Time series plots for Appendix III parameters are provided for all wells and are used to evaluate concentrations over time as well as for the purpose of updating statistical limits (Figure A). Additionally, box plots are included for all constituents at upgradient and downgradient wells (Figure B). Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graph; however, no values were flagged as outliers (Figure C). 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.

During the previous screening, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods were recommended. Power curves were provided with the screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance recommendations as discussed below.

Summary of Statistical Methods

Based on the evaluation for federal regulatory requirements, the following methods were selected for Appendix III constituents:

- Intrawell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended

by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the intrawell case, data for all wells and constituents are re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. While this was 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.

Two-Step Statistical Analysis

Intrawell statistical methods, combined with a 1-of-2 resample plan, may be used as a conservative first step for identifying potential facility impacts in downgradient wells. Intrawell methods use background data for individual wells and may be overly sensitive to spatial variation. In particular for nonparametric limits with small background sample sizes, the probability of a false positive is much higher than the desired annual sitewide rate of 10%. Therefore, a large number of exceedances may occur as a result of spatial variation rather than facility impacts. A second step can be used to further evaluate those exceedances and reduce the overall number of SSIs that result from spatial variation. In

instances where intrawell statistical methods identify an apparent SSI, a second step of interwell statistical evaluation may be used to determine whether the measurement exceeds the sitewide background limit based on pooled upgradient well data. This is similar in concept to the procedure used in compliance monitoring programs where an interwell statistical limit is used to determine "background" (USEPA Unified Guidance (2009), Chapter 7, Section 7.5). For the detection monitoring program, if the result does not exceed sitewide (interwell) background, an SSI is not declared.

When the result exceeds the sitewide (interwell) background, the 1-of-2 resample plan allows for collection of an independent resample to confirm or disconfirm the initial finding. A statistically significant increase is not declared unless the resample also exceeds the intrawell prediction limit (United States Environmental Protection Agency (USEPA) Unified Guidance, March 2009, Chapter 19). When the resample confirms the initial exceedance, 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). When any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary. In cases where intrawell and interwell exceedances are noted and no resamples are collected, the initial exceedance will be considered a confirmed statistically significant increase (SSI).

Trend tests, in addition to interwell prediction limits, are recommended for well/constituent pairs found to have an initial intrawell SSI. Trend analysis will provide for detection of long-term changes and potential facility impacts at a given well in cases where the concentrations at that well remain below the sitewide upgradient limits. Thus, the two-step approach has additional capability to detect long-term changes at downgradient wells compared to interwell methods alone. While a trend may be identified by visual inspection, a quantification of the trend and its significance is needed to identify whether concentrations are statistically significantly increasing, decreasing, or remaining stable over time. The absence of a statistically significant increasing trend indicates that an initial intrawell exceedance is short-term and may be the result of spatial variation rather than facility impact to groundwater. If a facility impact has occurred, it will likely result in additional exceedances in future sampling events. When a statistically significant increasing trend is noted, additional data may be needed to demonstrate that there is reasonable evidence that the initial intrawell statistical exceedance is a result of spatial variation rather than a result of impact to groundwater quality downgradient of the facility.

Summary of Background Screening – Conducted in October 2017

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not conservative from a regulatory perspective, in proposed background data. Suspected outliers at all wells for Appendix III parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

No suspected outliers were observed in any of the data sets for Appendix III parameters. When any values are identified as outliers, they are plotted in a lighter font on the time series graph.

Seasonality

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be visual, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, earlier data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When the historical records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed a few statistically significant decreasing and increasing trends. All trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to any of the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified variation among upgradient well data at Plant Daniel NAMU for the majority of the Appendix III parameters. This facility is a lined unit with pre-waste data; therefore, due to variation noted among upgradient wells, intrawell prediction limits were recommended for this facility to accommodate the groundwater quality. A summary table of the ANOVA results was included with the screening.

Summary of Background Update – Appendix III Parameters – November 2019

Prior to updating background data, samples were re-evaluated for Appendix III constituents at all wells using Tukey's outlier test and visual screening on all historical data through the April 2019 sample event. Only one value was noted by Tukey's as a potential outlier; however, when Tukey's outlier test detects an outlier for the most recent sample, it often will not be flagged in the event that the data precede a trend that is more representative of current concentrations. Therefore, no values for Appendix III constituents were flagged as outliers at the time of the screening. An updated summary of Tukey's test results was included with the screening.

The Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through June 2017 to the new compliance samples at each well through April 2019 to evaluate whether the groups are statistically different at the 99% confidence level for each of the Appendix III parameters. When no differences exist, background data sets may be updated to include newer data for construction of prediction limits. This results in statistical limits that are representative of present-day conditions. No statistically significant differences were found between the two groups except for the following: calcium and sulfate in well MW-15. Note that the Mann-Whitney test could not be produced due to insufficient variation in the data for boron in wells MW-14, MW-15, MW-16, MW-17, and MW-19.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background data sets are not updated to include the newer data but will be reconsidered in the future. For all well/constituent pairs, except for sulfate in well MW-15, due to the limited data available and the variability in data which shows that some of the more recent data have similar concentrations to those reported in background, these data sets were updated. For sulfate at well MW-15, the historic concentrations were exclusively non-detect concentrations at a reporting limit above recent detected concentrations; therefore, the record was updated to include the recent detected measurements. In the case of calcium at well MW-15, while there is a statistically significant difference between the two medians, the magnitude of the difference is minimal, and newer data more accurately represent concentrations present in nearby wells. Therefore, the background for this well/constituent pair was updated with new data. A summary of these results was included in the 2019 Background Update report.

Summary of Background Update – Appendix III Parameters – March 2022

Outlier Analysis

Prior to updating background data, samples were re-evaluated for Appendix III constituents at all wells using Tukey's outlier test and visual screening on all historical data through the March 2022 sample event. A few values were noted by Tukey's as potential outliers; however, these values were not drastically different than concentrations within the respective wells and were not flagged as outliers. Additionally, when Tukey's outlier test detects an outlier for the most recent sample, it often will not be flagged in the event that the reported concentration precedes a trend that is more representative of current concentrations. No values for Appendix III constituents were flagged as outliers at this time. The Tukey's test results were included with the update.

Mann-Whitney Test of Medians

The Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through April 2019 to the new compliance samples at each well through October 2021 to evaluate whether the groups are statistically different at the 99% confidence level for each of the Appendix III parameters. When no differences exist, background data sets may be updated to include newer data for construction of prediction limits. This results in statistical limits that are representative of present-day conditions. Statistically significant differences were found between the two groups except for the following:

Increase:

- Calcium: MW-19

Decrease:

- Calcium: MW-14 (upgradient)
- Chloride: MW-14 and MW-18 (both upgradient)
- Fluoride: MW-19
- Sulfate: MW-11 (upgradient) and MW-15

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background data sets are not updated to include the newer data but will be reconsidered in the future. For all well/constituent pairs with decreasing medians, these records were updated with more recent compliance measurements since reported concentrations are similar to those reported historically. In the case of fluoride in downgradient well MW-19, the significant difference resulted from reported trace values compared to reported non-detects in the record.

For the statistically significant increasing median identified in well MW-19, while a portion of the more recent concentrations remain below historical upgradient concentrations, the most recent compliance samples indicate an increase that would result in an elevated intrawell prediction limit. Therefore, this record was not updated at this time. This step results in construction of a statistical limit that is conservative (i.e., lower) from a regulatory perspective. A summary of the date range used for this well/constituent pair follows this report.

Statistical Analysis of Appendix III Parameters – October 2023

Intrawell Prediction Limits

Intrawell prediction limits, combined with a 1-of-2 resample strategy, were established for each of the Appendix III parameters at each well using historical data through October 2021 for comparison of the October 2023 samples (Figure D). Intrawell prediction limits use screened historical data within a given well to establish limits for parameters at the same well. The October 2023 samples from each well were compared to the prediction limits to determine whether initial exceedances are present.

Note that during this event, the reporting limit decreased for boron from 0.1 mg/L to 0.08 mg/L at wells MW-14 and MW-15 and increased for fluoride at MW-18 from 0.026 mg/L

to 0.1 mg/L. No significant changes occurred as a result of the reporting limit increase since no recent detections have been above the reporting limit in any of these wells.

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 the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no further action is necessary. Complete graphical results of the prediction limits may be found following this letter. Exceedances were identified for the following well/constituent pairs:

- Calcium: MW-19
- Chloride: MW-16 and MW-19
- Sulfate: MW-18 (upgradient) and MW-17

Two-Step Analysis

Following the two-step analysis procedure, interwell prediction limits were then constructed using pooled upgradient well data to evaluate the apparent intrawell prediction limit exceedances among downgradient wells (Figure E). No exceedances were identified.

Trend Test Evaluation

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 at the 99% confidence level (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. The existence of similar trends in both upgradient and downgradient wells is an indication of variability in groundwater that is unrelated to practices at the site. Statistically significant trends were identified for the following well/constituent pairs which is an indication of changing groundwater quality:

Increasing:

- Calcium: MW-19
- Chloride: MW-11 (upgradient)
- Sulfate: MW-17

Decreasing:

- Calcium: MW-14 and MW-18 (both upgradient)
- Chloride: MW-18 (upgradient)
- Sulfate: MW-11 (upgradient)

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Daniel North Ash Management Unit. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew Collins
Project Manager



Kristina L. Rayner
Senior Statistician

100% Non-Detects

Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Boron (mg/L)
MW-16, MW-17

Date Ranges

Date: 12/1/2023 1:34 PM

Plant Daniel Client: Southern Company Data: NAMU CCR

Calcium (mg/L)

MW-19 background:9/12/2016-4/22/2019

Intrawell Prediction Limits - Significant Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:27 PM

Constituent	Well	Upper Lim.	Lower Lim.Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	0.8608	n/a	10/30/2023 1.19	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-16	10.07	n/a	10/27/2023 10.4	Yes	19	7.533	1.263	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-19	5.802	n/a	10/30/2023 5.88	Yes	17	706.2	208.1	5.882	None	x^4	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-17	3.508	n/a	10/27/2023 3.82	Yes	17	2.304	0.5866	11.76	None	No	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-18	4.898	n/a	10/30/2023 7.39	Yes	17	3.696	0.585	5.882	None	No	0.00188	Param Intra 1 of 2

Intrawell Prediction Limits - All Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:27 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)	MW-11	0.103	n/a	10/27/2023	0.0305J	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-14	0.08	n/a	10/27/2023	0.08ND	No	17	n/a	n/a	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-15	0.1	n/a	10/27/2023	0.0234J	No	17	n/a	n/a	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-18	0.0601	n/a	10/30/2023	0.0304J	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-19	0.08	n/a	10/30/2023	0.08ND	No	17	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Calcium (mg/L)	MW-11	2.125	n/a	10/27/2023	1.42	No	17	24.35	9.256	5.882	None	x^5	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-14	5.702	n/a	10/27/2023	2.28	No	17	3.406	1.117	5.882	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-15	1.597	n/a	10/27/2023	1.13	No	17	1.187	0.2	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-16	1.146	n/a	10/27/2023	1.05	No	18	0.8117	0.1645	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-17	1.27	n/a	10/27/2023	0.916	No	17	0.01917	0.1071	0	None	ln(x)	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-18	0.9976	n/a	10/30/2023	0.427J	No	17	0.6866	0.1514	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-19	0.8608	n/a	10/30/2023	1.19	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-11	16.08	n/a	10/27/2023	12.1	No	32	12.44	1.948	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-14	12.3	n/a	10/27/2023	9.77	No	17	8.927	1.643	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-15	10.02	n/a	10/27/2023	8.9	No	17	7.922	1.023	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-16	10.07	n/a	10/27/2023	10.4	Yes	19	7.533	1.263	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-17	8.234	n/a	10/27/2023	6.16	No	17	6.738	0.7281	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-18	11.16	n/a	10/30/2023	11.1	No	17	8	1.54	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-19	5.802	n/a	10/30/2023	5.88	Yes	17	706.2	208.1	5.882	None	x^4	0.00188	Param Intra 1 of 2
Fluoride (mg/L)	MW-11	0.1	n/a	10/27/2023	0.058J	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Fluoride (mg/L)	MW-14	0.0411	n/a	10/27/2023	0.0511J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-15	0.0484	n/a	10/27/2023	0.0459J	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-16	0.0496	n/a	10/27/2023	0.0612J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-17	0.0511	n/a	10/27/2023	0.0494J	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-18	0.1	n/a	10/30/2023	0.1ND	No	17	n/a	n/a	64.71	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-19	0.0382	n/a	10/30/2023	0.0511J	No	17	n/a	n/a	82.35	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (SU)	MW-11	4.927	4.479	10/27/2023	4.7	No	18	4.703	0.1101	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-14	5.519	4.651	10/27/2023	4.8	No	17	5.085	0.2112	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-15	5.006	4.405	10/27/2023	4.59	No	17	4.705	0.1462	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-16	4.808	4.41	10/27/2023	4.47	No	17	4.609	0.09695	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-17	5.314	4.695	10/27/2023	4.82	No	17	1.71	0.0172	0	None	x^(1/3)	0.0009398	Param Intra 1 of 2
pH (SU)	MW-18	4.833	4.445	10/30/2023	4.64	No	16	4.639	0.09337	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-19	5.525	4.715	10/30/2023	5.01	No	18	5.12	0.1992	0	None	No	0.0009398	Param Intra 1 of 2
Sulfate (mg/L)	MW-11	10.47	n/a	10/27/2023	2.72	No	32	1.364	0.5266	15.63	Kaplan-Meier	ln(x)	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-14	2.474	n/a	10/27/2023	1.53	No	17	2.586	1.72	29.41	Kaplan-Meier	x^2	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-15	3.38	n/a	10/27/2023	1.7	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	MW-16	5	n/a	10/27/2023	3.08	No	17	n/a	n/a	47.06	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Sulfate (mg/L)	MW-17	3.508	n/a	10/27/2023	3.82	Yes	17	2.304	0.5866	11.76	None	No	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-18	4.898	n/a	10/30/2023	7.39	Yes	17	3.696	0.585	5.882	None	No	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-19	5	n/a	10/30/2023	2.73	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	MW-11	76.12	n/a	10/27/2023	21	No	17	44	15.64	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-14	67.34	n/a	10/27/2023	23	No	17	36.35	15.09	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-15	54.62	n/a	10/27/2023	24	No	18	27.33	13.43	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-16	59.48	n/a	10/27/2023	21	No	17	24.46	17.05	17.65	Kaplan-Meier	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-17	43.75	n/a	10/27/2023	14	No	17	25.75	8.766	5.882	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-18	46.41	n/a	10/30/2023	15	No	17	26.88	9.506	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-19	43.34	n/a	10/30/2023	29	No	17	22.09	10.35	5.882	None	No	0.00188	Param Intra 1 of 2

Interwell Prediction Limits - Two-Step - All Results (No Significant)

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	4.467	n/a	10/30/2023	1.19	No	63	1.31	0.4517	3.175	None	sqrt(x)	0.00188	Param Inter 1 of 2
Chloride (mg/L)	MW-16	15.07	n/a	10/27/2023	10.4	No	78	10.29	2.713	0	None	No	0.00188	Param Inter 1 of 2
Chloride (mg/L)	MW-19	15.07	n/a	10/30/2023	5.88	No	78	10.29	2.713	0	None	No	0.00188	Param Inter 1 of 2
Sulfate (mg/L)	MW-17	7.47	n/a	10/27/2023	3.82	No	78	1.791	0.5338	15.38	Kaplan-Meier	sqrt(x)	0.00188	Param Inter 1 of 2

Appendix III Trend Tests - Significant Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:33 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>Alpha</u>	<u>Method</u>
Calcium (mg/L)	MW-14 (bg)	-0.3374	-149	-87	Yes	21	4.762	n/a	0.01	NP
Calcium (mg/L)	MW-18 (bg)	-0.06556	-141	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	MW-19	0.127	107	92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	MW-11 (bg)	0.1671	240	191	Yes	36	0	n/a	0.01	NP
Chloride (mg/L)	MW-18 (bg)	-0.4732	-89	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	MW-11 (bg)	-0.2348	-258	-191	Yes	36	13.89	n/a	0.01	NP
Sulfate (mg/L)	MW-17	0.247	129	87	Yes	21	9.524	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:33 PM

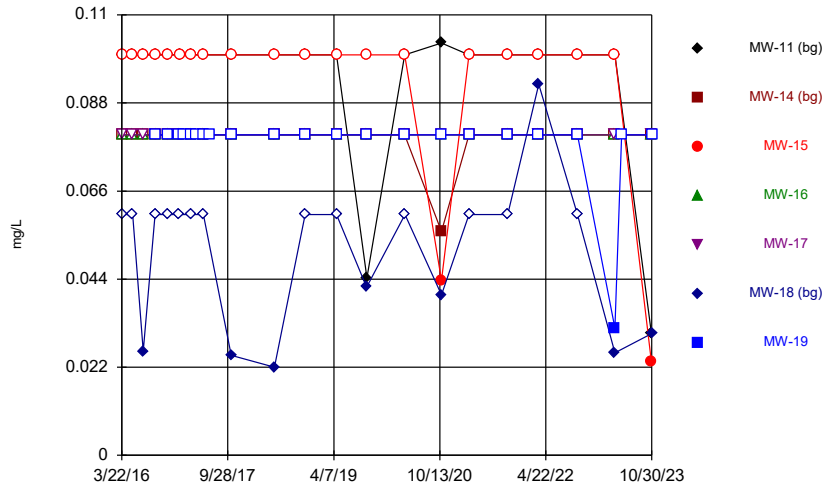
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	MW-11 (bg)	-0.005507	-27	-87	No	21	4.762	n/a	0.01	NP
Calcium (mg/L)	MW-14 (bg)	-0.3374	-149	-87	Yes	21	4.762	n/a	0.01	NP
Calcium (mg/L)	MW-18 (bg)	-0.06556	-141	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	MW-19	0.127	107	92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	MW-11 (bg)	0.1671	240	191	Yes	36	0	n/a	0.01	NP
Chloride (mg/L)	MW-14 (bg)	-0.08571	-20	-87	No	21	0	n/a	0.01	NP
Chloride (mg/L)	MW-16	0.4398	98	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	MW-18 (bg)	-0.4732	-89	-87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	MW-19	0.09374	55	92	No	22	4.545	n/a	0.01	NP
Sulfate (mg/L)	MW-11 (bg)	-0.2348	-258	-191	Yes	36	13.89	n/a	0.01	NP
Sulfate (mg/L)	MW-14 (bg)	0.02996	33	87	No	21	28.57	n/a	0.01	NP
Sulfate (mg/L)	MW-17	0.247	129	87	Yes	21	9.524	n/a	0.01	NP
Sulfate (mg/L)	MW-18 (bg)	0.2831	70	87	No	21	4.762	n/a	0.01	NP

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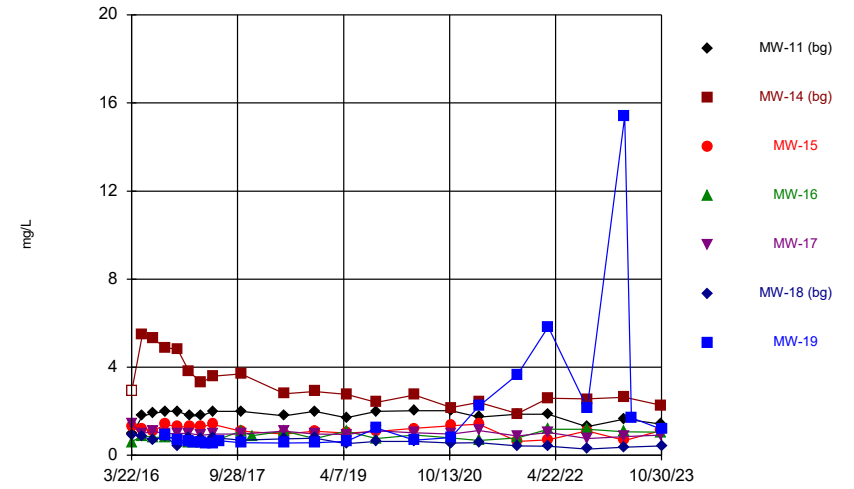
FIGURE A.

Time Series



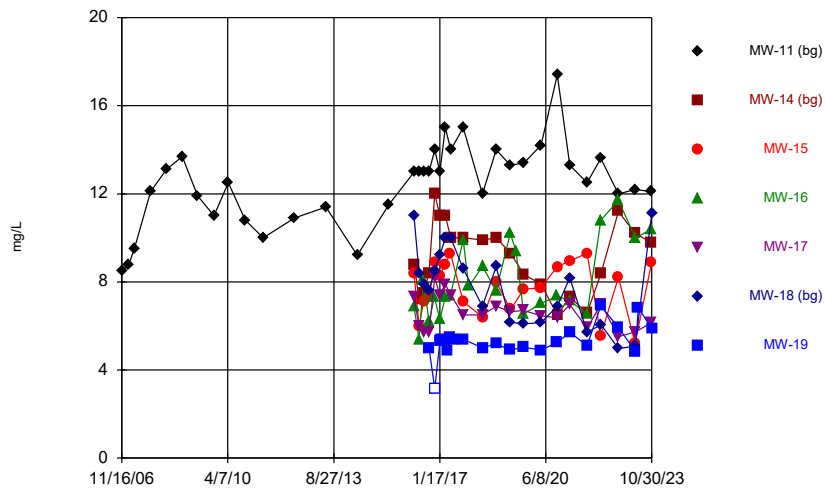
Constituent: Boron Analysis Run 12/1/2023 1:20 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series



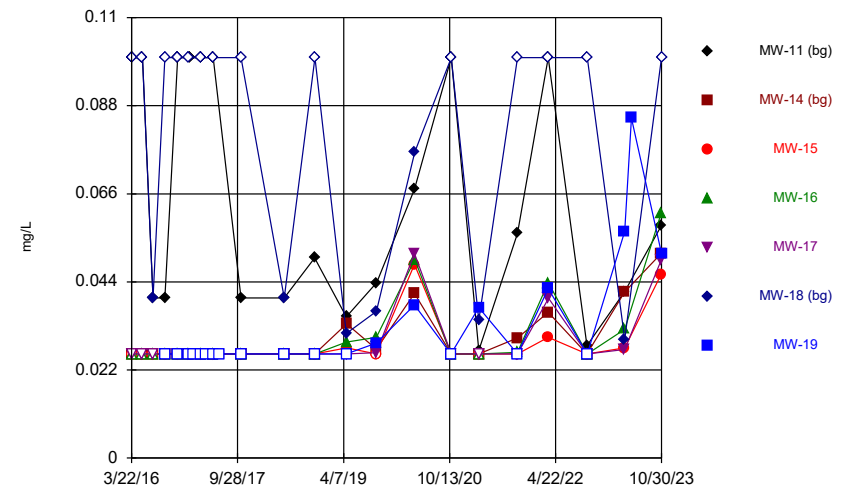
Constituent: Calcium Analysis Run 12/1/2023 1:20 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series



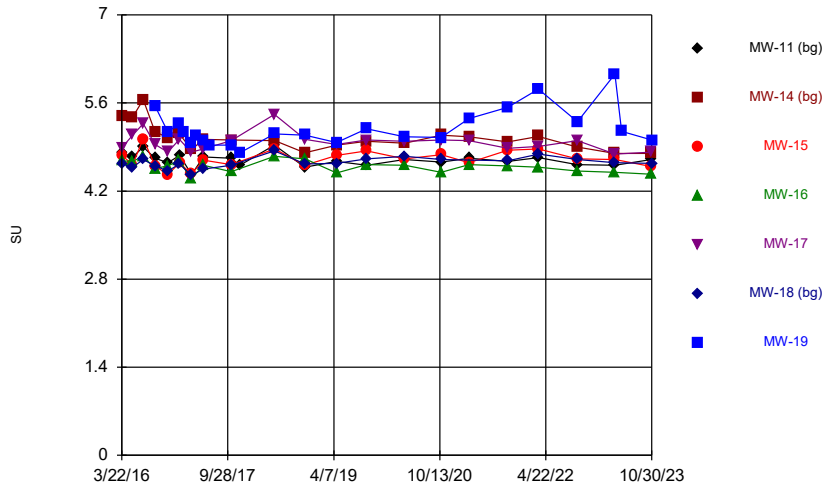
Constituent: Chloride Analysis Run 12/1/2023 1:20 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series



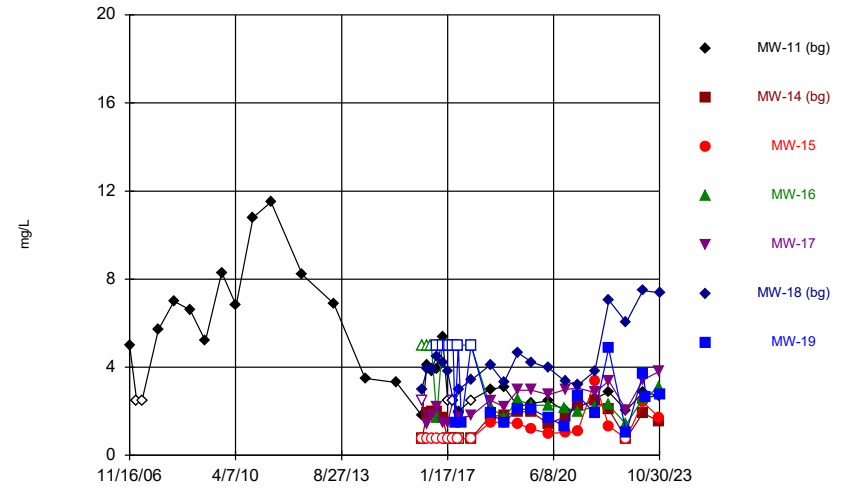
Constituent: Fluoride Analysis Run 12/1/2023 1:20 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series



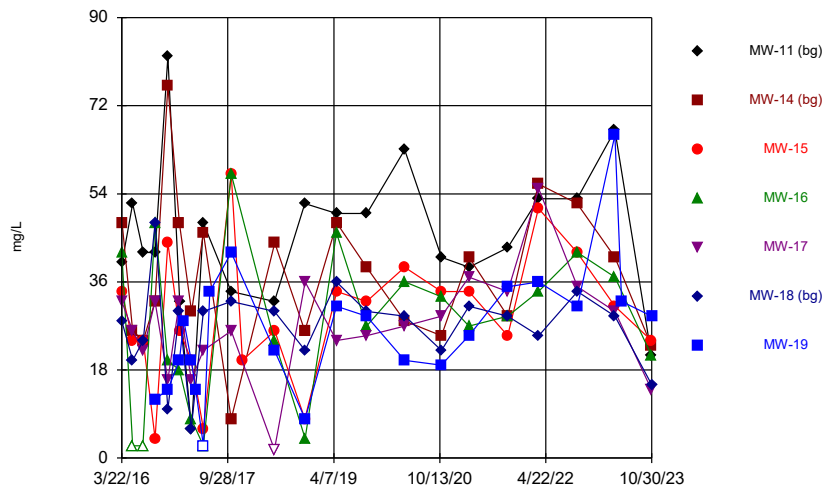
Constituent: pH Analysis Run 12/1/2023 1:20 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series



Constituent: Sulfate Analysis Run 12/1/2023 1:20 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series



Constituent: Total Dissolved Solids Analysis Run 12/1/2023 1:20 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Time Series

Constituent: Boron (mg/L) Analysis Run 12/1/2023 1:22 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/22/2016			<0.1 (B1)	<0.08 (B1)	<0.08 (B1)	<0.0601 (B1)	
3/23/2016	<0.1 (B1)	<0.08 (B1)					
5/18/2016	<0.1	<0.08	<0.1	<0.08	<0.08	<0.0601	
7/11/2016				<0.08			
7/12/2016	<0.1	<0.08	<0.1		<0.08	0.026 (J)	
9/12/2016	<0.1	<0.08	<0.1		<0.08	<0.0601	<0.08
9/13/2016				<0.08			
11/17/2016				<0.08			
11/18/2016	<0.1				<0.08	<0.0601	<0.08
11/19/2016		<0.08	<0.1				
1/18/2017		<0.08		<0.08	<0.08	<0.0601	<0.08
1/19/2017	<0.1		<0.1				
2/10/2017							<0.08
3/21/2017			<0.1	<0.08	<0.08	<0.0601	<0.08
3/22/2017	<0.1	<0.08					
4/14/2017							<0.08
5/23/2017			<0.1	<0.08			<0.08
5/24/2017	<0.1	<0.08			<0.08	<0.0601	
6/26/2017							<0.08
10/17/2017	<0.1	<0.08	<0.1	<0.08	<0.08	0.025 (J)	<0.08
5/31/2018	<0.1			<0.08	<0.08	0.022 (J)	<0.08
6/1/2018		<0.08	<0.1				
11/7/2018	<0.1	<0.08	<0.1				
11/8/2018				<0.08	<0.08	<0.0601	<0.08
4/22/2019	<0.1			<0.08	<0.08	<0.0601	<0.08
4/23/2019		<0.08	<0.1				
9/26/2019		<0.08	<0.1	<0.08	<0.08	0.042 (J)	<0.08
9/27/2019	0.0443 (J)						
4/13/2020	<0.1	<0.08	<0.1		<0.08		<0.08
4/14/2020				<0.08		<0.0601	
10/21/2020				<0.08			<0.08
10/22/2020	0.103	0.0559 (J)	0.0437 (J)		<0.08	0.0401 (J)	
3/16/2021	<0.1	<0.08	<0.1	<0.08	<0.08	<0.0601	<0.08
10/5/2021	<0.1	<0.08	<0.1	<0.08	<0.08	<0.0601	<0.08
3/15/2022	<0.1	<0.08	<0.1	<0.08			<0.08
3/16/2022					<0.08	0.0927	
10/4/2022	<0.1	<0.08	<0.1				
10/5/2022				<0.08	<0.08	<0.0601	<0.08
4/19/2023	<0.1	<0.08	<0.1			0.0256 (J)	
4/20/2023				<0.08	<0.08		0.0318 (J)
5/24/2023							<0.08
10/27/2023	0.0305 (J)	<0.08	0.0234 (J)	<0.08	<0.08		
10/30/2023						0.0304 (J)	<0.08

Time Series

Constituent: Calcium (mg/L) Analysis Run 12/1/2023 1:22 PM

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/22/2016			1.3 (B1)	0.61 (B1)	1.4 (B1)	0.93 (B1)	
3/23/2016	<1.9 (*)	<5.9 (*)					
5/18/2016	1.8	5.5	1.2	0.89	1	0.85	
7/11/2016				0.82			
7/12/2016	1.9	5.3	1.1		1.1	0.69	
9/12/2016	2	4.9	1.4		0.98	0.86	0.92
9/13/2016				0.82			
11/17/2016				0.75			
11/18/2016	2				1	0.41	0.68
11/19/2016		4.8	1.3				
1/18/2017		3.8		0.58	1	0.81	0.64
1/19/2017	1.8		1.3				
2/10/2017							0.58
3/21/2017			1.3	0.6	0.91	0.76	0.56
3/22/2017	1.8	3.3					
4/14/2017							0.51
5/23/2017			1.4	0.65			0.54
5/24/2017	2	3.6			0.96	0.8	
6/26/2017							0.66
10/17/2017	2	3.7	1.1	1.1	0.96	0.69	0.58
12/15/2017				0.89 (RS)			
5/31/2018	1.8			1.1	1.1	0.75	0.56
6/1/2018		2.8	0.97				
11/7/2018	2	2.9	1.1				
11/8/2018				0.76	0.96	0.78	0.57
4/22/2019	1.71			1.09	0.946	0.531	0.634
4/23/2019		2.76	1.01				
9/26/2019		2.4	1.08	0.758	1.11	0.631	1.24
9/27/2019	1.99						
4/13/2020	2.03	2.74	1.22		1.03		0.687
4/14/2020				0.92		0.627	
10/21/2020				0.798			0.806
10/22/2020	2.02	2.17	1.35		0.969	0.553	
3/16/2021	1.74	2.4	1.41	0.681	1.12	0.57	2.23
10/5/2021	1.87	1.89	0.632	0.793	0.883	0.43 (J)	3.67
3/15/2022	1.87	2.59	0.703	1.18			5.84
3/16/2022					1.04	0.406 (J)	
10/4/2022	1.3	2.56	1.11				
10/5/2022				1.19	0.755	0.285 (J)	2.16
4/19/2023	1.65	2.63	0.682			0.368 (J)	
4/20/2023				1.07	0.855		15.4
5/24/2023							1.7
10/27/2023	1.42	2.28	1.13	1.05	0.916		
10/30/2023						0.427 (J)	1.19

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:22 PM

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
11/16/2006	8.5						
2/5/2007	8.8						
4/12/2007	9.5						
10/17/2007	12.1						
4/17/2008	13.1						
10/24/2008	13.7						
4/21/2009	11.9						
10/26/2009	11						
4/12/2010	12.5						
10/30/2010	10.8						
5/25/2011	10						
5/25/2012	10.9						
5/28/2013	11.4						
5/31/2014	9.2						
5/29/2015	11.5						
3/22/2016			8.4 (B1)	6.9 (B1)	7.3 (B1)	11 (B1)	
3/23/2016	13	8.8 (B1)					
5/18/2016	13	7.2	6	5.4	6	8.4	
7/11/2016				8.1			
7/12/2016	13	7.5	7.1		5.7	7.9	
9/12/2016	13	8.4	7.3		5.7	7.6	5
9/13/2016				6.2			
11/17/2016				7.3			
11/18/2016	14				8.2	8.5	<6.3 (*)
11/19/2016		12	8.9				
1/18/2017		11		6.3	7.4	9.2	5.3
1/19/2017	13		8.3				
2/10/2017							5.4
3/21/2017			8.8	7.3	7.9	10	5.3
3/22/2017	15	11					
4/14/2017							4.9 (B)
5/23/2017			9.3	7.4			5.5
5/24/2017	14	10			7.4	10	
6/26/2017							5.4
10/17/2017	15	10	7.1	9.9	6.5	8.6	5.4
12/19/2017				7.8 (RS)			
5/31/2018	12			8.7	6.5	6.9	5
6/1/2018		9.9	6.4				
11/7/2018	14	10	8				
11/8/2018				7.6	6.9	8.7	5.2
4/22/2019	13.3			10.2	6.64	6.17	4.91
4/23/2019		9.3	6.75				
6/25/2019				9.4			
9/26/2019		8.35	7.66	6.54	6.7	6.09	5.03
9/27/2019	13.4						
4/13/2020	14.2	7.9	7.74		6.46		4.9
4/14/2020				7.03		6.15	
10/21/2020				7.36			5.25
10/22/2020	17.4	6.5	8.69		6.37	6.89	
3/16/2021	13.3	7.32	8.94	7.14	6.97	8.18	5.72
10/5/2021	12.5	6.59	9.3	6.55	5.91	5.72	5.1
3/15/2022	13.6	8.36	5.55	10.8			6.91

Time Series

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:22 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/16/2022					7	6.05	
10/4/2022	12	11.2	8.22				
10/5/2022				11.7	5.51	4.97	5.94
4/19/2023	12.2	10.2	5.21			5.08	
4/20/2023				10	5.73		4.84
5/24/2023							6.84
10/27/2023	12.1	9.77	8.9	10.4	6.16		
10/30/2023						11.1	5.88

Time Series

Constituent: Fluoride (mg/L) Analysis Run 12/1/2023 1:22 PM

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/22/2016			<0.026 (B1)	<0.026 (B1)	<0.026 (B1)	<0.1 (B1)	
3/23/2016	<0.1	<0.026 (B1)					
5/18/2016	<0.1	<0.026	<0.026	<0.026	<0.026	<0.1	
7/11/2016				<0.026			
7/12/2016	0.04 (J)	<0.026	<0.026		<0.026	0.04 (J)	
9/12/2016	0.04 (J)	<0.026	<0.026		<0.026	<0.1	<0.026
9/13/2016				<0.026			
11/17/2016				<0.026			
11/18/2016	<0.1				<0.026	<0.1	<0.026
11/19/2016		<0.026	<0.026				
1/18/2017		<0.026		<0.026	<0.026	<0.1	<0.026
1/19/2017	<0.1		<0.026				
2/10/2017							<0.026
3/21/2017			<0.026	<0.026	<0.026	<0.1	<0.026
3/22/2017	<0.1	<0.026					
4/14/2017							<0.026
5/23/2017			<0.026	<0.026			<0.026
5/24/2017	<0.1	<0.026			<0.026	<0.1	
6/26/2017							<0.026
10/17/2017	0.04 (J)	<0.026	<0.026	<0.026	<0.026	<0.1	<0.026
5/31/2018	0.04 (J)			<0.026	<0.026	0.04 (J)	<0.026
6/1/2018		<0.026	<0.026				
11/7/2018	0.05 (J)	<0.026	<0.026				
11/8/2018				<0.026	<0.026	<0.1	<0.026
4/22/2019	0.0353 (J)			0.029 (J)	<0.026	0.0311 (J)	<0.026
4/23/2019		0.0335 (J)	0.0275 (J)				
9/26/2019		0.0272 (J)	<0.026	0.0302 (J)	0.0263 (J)	0.0366 (J)	0.0287 (J)
9/27/2019	0.0438 (J)						
4/13/2020	0.0672 (J)	0.0411 (J)	0.0484 (J)		0.0511 (J)		0.0382 (J)
4/14/2020				0.0496 (J)		0.0764 (J)	
10/21/2020				<0.026			<0.026
10/22/2020	<0.1	<0.026	<0.026		<0.026	<0.1	
3/16/2021	0.0269 (J)	<0.026	<0.026	<0.026	<0.026	0.0344 (J)	0.0376 (J)
10/5/2021	0.0561 (J)	0.03 (J)	<0.026	0.0264 (J)	<0.026	<0.1	<0.026
3/15/2022	<0.1	0.0364 (J)	0.0302 (J)	0.0438 (J)			0.0423 (J)
3/16/2022					0.0399 (J)	<0.1	
10/4/2022	0.0281 (J)	<0.026	<0.026				
10/5/2022				<0.026	<0.026	<0.1	<0.026
4/19/2023	0.0416 (J)	0.0415 (J)	0.0275 (J)			0.0297 (J)	
4/20/2023				0.0322 (J)	0.0271 (J)		0.0566 (J)
5/24/2023							0.0849 (J)
10/27/2023	0.058 (J)	0.0511 (J)	0.0459 (J)	0.0612 (J)	0.0494 (J)		
10/30/2023						<0.1	0.0511 (J)

Time Series

Constituent: pH (SU) Analysis Run 12/1/2023 1:22 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/22/2016			4.77	4.68	4.89	4.63	
3/23/2016	4.8	5.4					
5/18/2016	4.74	5.38	4.62	4.67	5.09	4.58	
7/11/2016				4.75			
7/12/2016	4.9	5.65	5.03		5.27	4.7	
9/12/2016	4.72	5.14	4.6		4.94	4.6	5.55
9/13/2016				4.56			
11/17/2016				4.6			
11/18/2016	4.65				4.82	4.52	5.14
11/19/2016		5.05	4.46				
1/18/2017		5.11		4.68	5.02	4.63	5.27
1/19/2017	4.77		4.65				
2/10/2017							5.14
3/21/2017			4.47	4.39	4.82	4.45	4.96
3/22/2017	4.46	4.86					
4/14/2017							5.07
5/23/2017			4.69	4.61			5.01
5/24/2017	4.74	5.02			4.87	4.55	
6/26/2017							4.93
10/17/2017	4.72	5.01	4.62	4.51	5	4.61	4.93
11/30/2017	4.61						4.81
5/31/2018	4.93			4.75	5.42	4.84	5.11
6/1/2018		5	4.87				
11/7/2018	4.58	4.81	4.61				
11/8/2018				4.71	5.02	4.63	5.09
4/22/2019	4.67			4.49	4.94	4.64	4.97
4/23/2019		4.93	4.77				
9/26/2019		4.99	4.84	4.62	5.01	4.71	5.19
9/27/2019	4.61						
4/13/2020	4.7	4.96	4.71		4.99		5.06
4/14/2020				4.61		4.75	
10/21/2020				4.5			5.05
10/22/2020	4.66	5.09	4.78		5.01	4.7	
3/16/2021	4.72	5.06	4.65	4.62	5		5.35
10/5/2021	4.67	4.98	4.85	4.6	4.88	4.68	5.53
3/15/2022	4.73	5.07	4.87	4.58			5.82
3/16/2022					4.91	4.79	
10/4/2022	4.62	4.9	4.71				
10/5/2022				4.52	5	4.7	5.3
4/19/2023	4.61	4.8	4.7			4.65	
4/20/2023				4.5	4.79		6.06
5/24/2023							5.15
10/27/2023	4.7	4.8	4.59	4.47	4.82		
10/30/2023						4.64	5.01

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/1/2023 1:22 PM

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
11/16/2006	5						
2/5/2007	<5						
4/12/2007	<5						
10/17/2007	5.7						
4/17/2008	7						
10/24/2008	6.6						
4/21/2009	5.2						
10/26/2009	8.3						
4/12/2010	6.8						
10/30/2010	10.8						
5/25/2011	11.5						
5/25/2012	8.2						
5/28/2013	6.9						
5/31/2014	3.5						
5/29/2015	3.3						
3/22/2016			<0.756	<5	<5	3 (J)	
3/23/2016	1.8 (J)	<0.756					
5/18/2016	4.1	1.9	<0.756	<5	1.4	3.9 (J)	
7/11/2016				<5			
7/12/2016	3.8 (J)	2 (J)	<0.756		1.8 (J)	3.9 (J)	
9/12/2016	3.9 (J)	2 (J)	<0.756		2.2 (J)	4.5 (J)	<5
9/13/2016				1.7 (J)			
11/17/2016				<5			
11/18/2016	5.4				1.5 (J)	4.2 (J)	<5
11/19/2016		1.7 (J)	<0.756				
1/18/2017		<0.756		<5	1.5 (J)	3.8 (J)	<5
1/19/2017	<5		<0.756				
2/10/2017							<5
3/21/2017			<0.756	<5	<5	<5 (*)	<5
3/22/2017	<5	<0.756					
4/14/2017							1.5 (J)
5/23/2017			<0.756	<5			<5
5/24/2017	2 (J)	<0.756			1.7 (J)	3 (J)	
6/26/2017							1.5 (J)
10/17/2017	<5	<0.756	<0.756	<5	1.8 (J)	3.4 (J)	<5
5/31/2018	3 (J)			2.2 (J)	2.5 (J)	4.1 (J)	1.9 (J)
6/1/2018		1.8 (J)	1.5 (J)				
11/7/2018	3.1 (J)	1.8 (J)	1.5 (J)				
11/8/2018				1.7 (J)	2.2 (J)	3.3 (J)	1.5 (J)
4/22/2019	2.22			2.52	2.96	4.66	2.09
4/23/2019		1.99	1.43				
9/26/2019		1.95	1.2	2.28	2.96	4.23	2.1
9/27/2019	2.36						
4/13/2020	2.47	1.43	0.992 (J)		2.75		1.69
4/14/2020				2.27		3.96	
10/21/2020				2.15			1.31
10/22/2020	2.01	1.76	1.04		2.98	3.37	
3/16/2021	2.15	2.23	1.07	2	3.06	3.18	2.72
10/5/2021	2.57	2.46	3.38	2.22	2.85	3.83	1.91
3/15/2022	2.88	2.1	1.33	2.29			4.86
3/16/2022					3.38	7.04	
10/4/2022	2.04	<0.756	<0.756				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 12/1/2023 1:22 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
10/5/2022				1.4	2.05	6.04	1.02
4/19/2023	2.85	1.93	2.42			7.48	
4/20/2023				2.59	3.44		3.73
5/24/2023							2.62
10/27/2023	2.72	1.53	1.7	3.08	3.82		
10/30/2023						7.39	2.73

Time Series

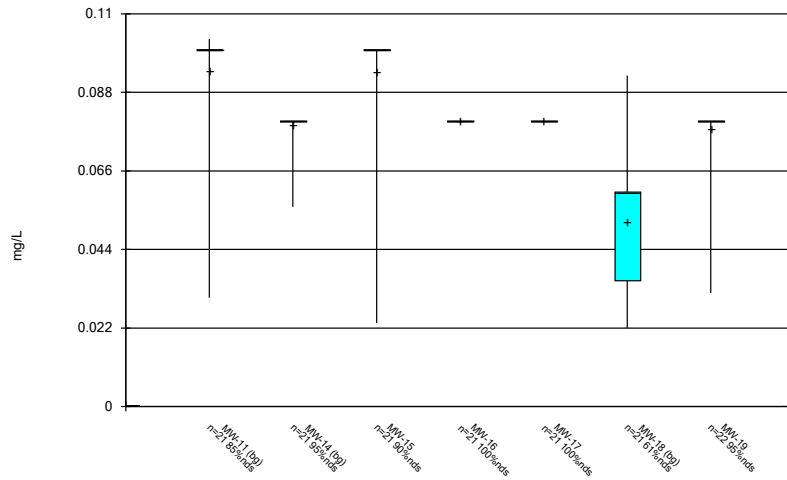
Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/1/2023 1:22 PM

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-14 (bg)	MW-15	MW-16	MW-17	MW-18 (bg)	MW-19
3/22/2016			34 (B1)	42 (B1)	32 (B1)	28 (B1)	
3/23/2016	40	48 (B1)					
5/18/2016	52	26	24	<5	26	20	
7/11/2016				<5			
7/12/2016	42	24	24		22	24	
9/12/2016	42	32	4 (J)		32	48	12
9/13/2016				48			
11/17/2016				20			
11/18/2016	82				16	10	14
11/19/2016		76	44				
1/18/2017		48		18	32	30	20
1/19/2017	32		26				
2/10/2017							28
3/21/2017			20	8	16	6	20
3/22/2017	6	30					
4/14/2017							14
5/23/2017			6	<5			<5
5/24/2017	48	46			22	30	
6/26/2017							34
10/17/2017	34	8	58	58	26	32	42
12/15/2017			20 (RS)				
5/31/2018	32			24	<3.4	30	22
6/1/2018		44	26				
11/7/2018	52	26	8				
11/8/2018				4 (J)	36	22	8
4/22/2019	50			46	24	36	31
4/23/2019		48	34				
9/26/2019		39	32	27	25	30	29
9/27/2019	50						
4/13/2020	63	28	39		27		20
4/14/2020				36		29	
10/21/2020				33			19
10/22/2020	41	25	34		29	22	
3/16/2021	39	41	34	27	37	31	25
10/5/2021	43	29	25	29	34	29	35
3/15/2022	53	56	51	34			36
3/16/2022					55	25	
10/4/2022	53	52	42				
10/5/2022				42	35	34	31
4/19/2023	67	41	31			29	
4/20/2023				37	30		66
5/24/2023							32
10/27/2023	21	23	24	21	14		
10/30/2023						15	29

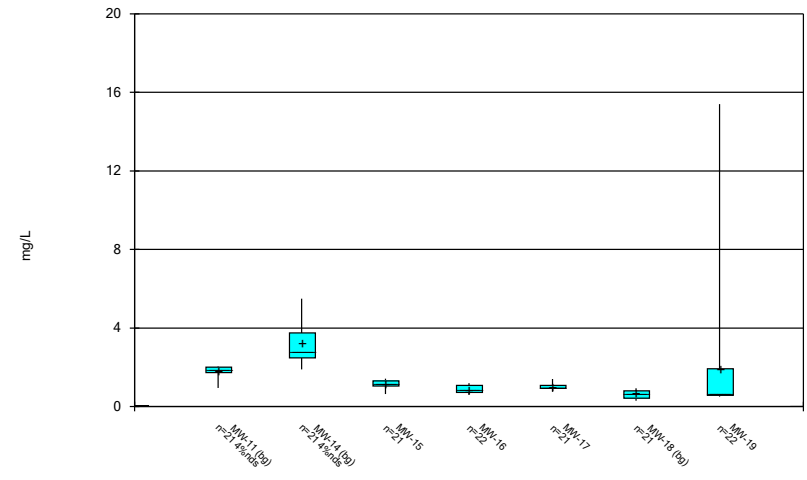
FIGURE B.

Box & Whiskers Plot



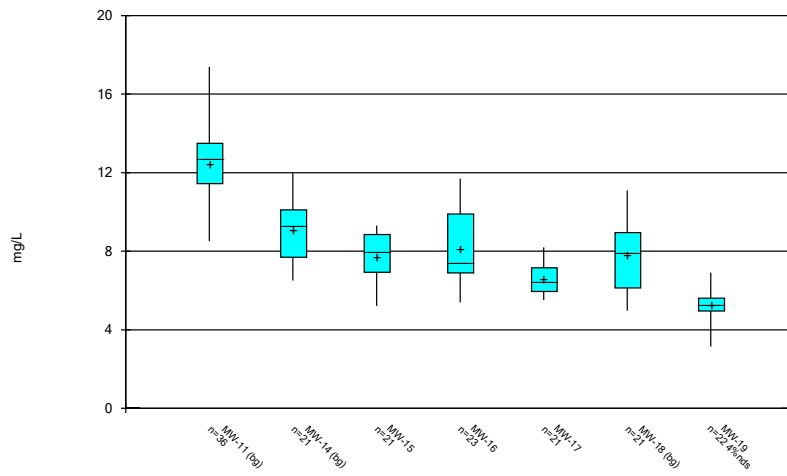
Constituent: Boron Analysis Run 12/1/2023 1:22 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



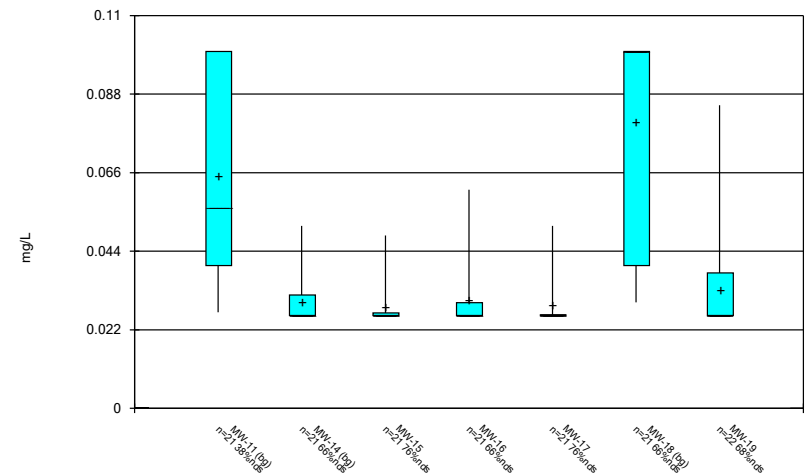
Constituent: Calcium Analysis Run 12/1/2023 1:22 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



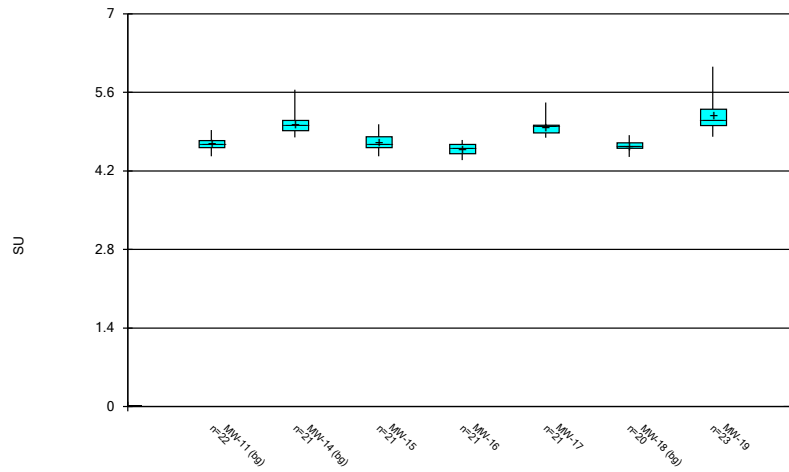
Constituent: Chloride Analysis Run 12/1/2023 1:22 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



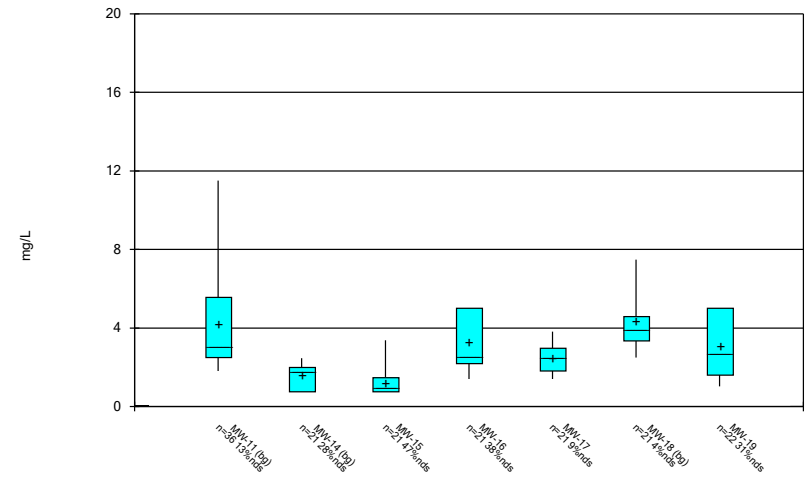
Constituent: Fluoride Analysis Run 12/1/2023 1:22 PM
 Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



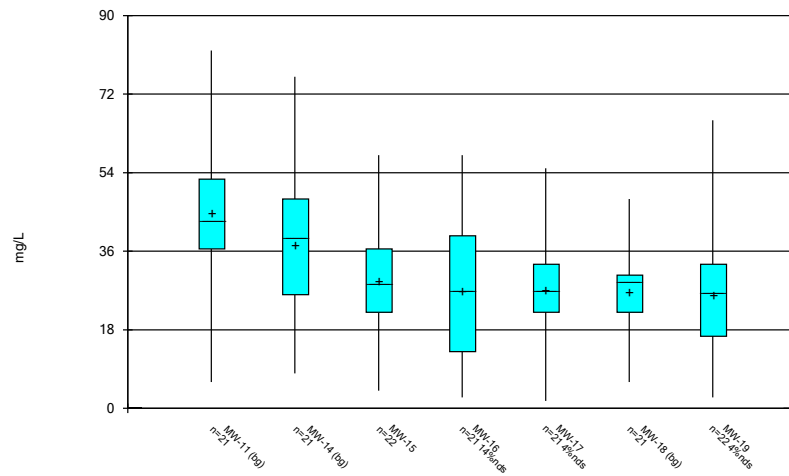
Constituent: pH Analysis Run 12/1/2023 1:22 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 12/1/2023 1:22 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 12/1/2023 1:22 PM
Plant Daniel Client: Southern Company Data: NAMU CCR

FIGURE C.

Outlier Summary

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:23 PM

No values were flagged as outliers.

FIGURE D.

Intrawell Prediction Limits - Significant Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:27 PM

Constituent	Well	Upper Lim.	Lower Lim.Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	0.8608	n/a	10/30/2023 1.19	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-16	10.07	n/a	10/27/2023 10.4	Yes	19	7.533	1.263	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-19	5.802	n/a	10/30/2023 5.88	Yes	17	706.2	208.1	5.882	None	x^4	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-17	3.508	n/a	10/27/2023 3.82	Yes	17	2.304	0.5866	11.76	None	No	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-18	4.898	n/a	10/30/2023 7.39	Yes	17	3.696	0.585	5.882	None	No	0.00188	Param Intra 1 of 2

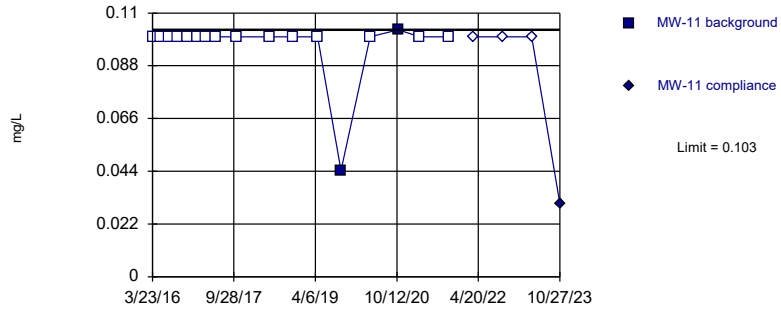
Intrawell Prediction Limits - All Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:27 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)	MW-11	0.103	n/a	10/27/2023 0.0305J	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-14	0.08	n/a	10/27/2023 0.08ND	No	17	n/a	n/a	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-15	0.1	n/a	10/27/2023 0.0234J	No	17	n/a	n/a	94.12	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-18	0.0601	n/a	10/30/2023 0.0304J	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Boron (mg/L)	MW-19	0.08	n/a	10/30/2023 0.08ND	No	17	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Calcium (mg/L)	MW-11	2.125	n/a	10/27/2023 1.42	No	17	24.35	9.256	5.882	None	x^5	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-14	5.702	n/a	10/27/2023 2.28	No	17	3.406	1.117	5.882	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-15	1.597	n/a	10/27/2023 1.13	No	17	1.187	0.2	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-16	1.146	n/a	10/27/2023 1.05	No	18	0.8117	0.1645	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-17	1.27	n/a	10/27/2023 0.916	No	17	0.01917	0.1071	0	None	ln(x)	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-18	0.9976	n/a	10/30/2023 0.427J	No	17	0.6866	0.1514	0	None	No	0.00188	Param Intra 1 of 2
Calcium (mg/L)	MW-19	0.8608	n/a	10/30/2023 1.19	Yes	12	0.7847	0.06412	0	None	sqrt(x)	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-11	16.08	n/a	10/27/2023 12.1	No	32	12.44	1.948	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-14	12.3	n/a	10/27/2023 9.77	No	17	8.927	1.643	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-15	10.02	n/a	10/27/2023 8.9	No	17	7.922	1.023	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-16	10.07	n/a	10/27/2023 10.4	Yes	19	7.533	1.263	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-17	8.234	n/a	10/27/2023 6.16	No	17	6.738	0.7281	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-18	11.16	n/a	10/30/2023 11.1	No	17	8	1.54	0	None	No	0.00188	Param Intra 1 of 2
Chloride (mg/L)	MW-19	5.802	n/a	10/30/2023 5.88	Yes	17	706.2	208.1	5.882	None	x^4	0.00188	Param Intra 1 of 2
Fluoride (mg/L)	MW-11	0.1	n/a	10/27/2023 0.058J	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Fluoride (mg/L)	MW-14	0.0411	n/a	10/27/2023 0.0511J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-15	0.0484	n/a	10/27/2023 0.0459J	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-16	0.0496	n/a	10/27/2023 0.0612J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-17	0.0511	n/a	10/27/2023 0.0494J	No	17	n/a	n/a	88.24	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-18	0.1	n/a	10/30/2023 0.1ND	No	17	n/a	n/a	64.71	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	MW-19	0.0382	n/a	10/30/2023 0.0511J	No	17	n/a	n/a	82.35	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (SU)	MW-11	4.927	4.479	10/27/2023 4.7	No	18	4.703	0.1101	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-14	5.519	4.651	10/27/2023 4.8	No	17	5.085	0.2112	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-15	5.006	4.405	10/27/2023 4.59	No	17	4.705	0.1462	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-16	4.808	4.41	10/27/2023 4.47	No	17	4.609	0.09695	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-17	5.314	4.695	10/27/2023 4.82	No	17	1.71	0.0172	0	None	x^(1/3)	0.0009398	Param Intra 1 of 2
pH (SU)	MW-18	4.833	4.445	10/30/2023 4.64	No	16	4.639	0.09337	0	None	No	0.0009398	Param Intra 1 of 2
pH (SU)	MW-19	5.525	4.715	10/30/2023 5.01	No	18	5.12	0.1992	0	None	No	0.0009398	Param Intra 1 of 2
Sulfate (mg/L)	MW-11	10.47	n/a	10/27/2023 2.72	No	32	1.364	0.5266	15.63	Kaplan-Meier	ln(x)	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-14	2.474	n/a	10/27/2023 1.53	No	17	2.586	1.72	29.41	Kaplan-Meier	x^2	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-15	3.38	n/a	10/27/2023 1.7	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate (mg/L)	MW-16	5	n/a	10/27/2023 3.08	No	17	n/a	n/a	47.06	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Sulfate (mg/L)	MW-17	3.508	n/a	10/27/2023 3.82	Yes	17	2.304	0.5866	11.76	None	No	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-18	4.898	n/a	10/30/2023 7.39	Yes	17	3.696	0.585	5.882	None	No	0.00188	Param Intra 1 of 2
Sulfate (mg/L)	MW-19	5	n/a	10/30/2023 2.73	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Total Dissolved Solids (mg/L)	MW-11	76.12	n/a	10/27/2023 21	No	17	44	15.64	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-14	67.34	n/a	10/27/2023 23	No	17	36.35	15.09	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-15	54.62	n/a	10/27/2023 24	No	18	27.33	13.43	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-16	59.48	n/a	10/27/2023 21	No	17	24.46	17.05	17.65	Kaplan-Meier	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-17	43.75	n/a	10/27/2023 14	No	17	25.75	8.766	5.882	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-18	46.41	n/a	10/30/2023 15	No	17	26.88	9.506	0	None	No	0.00188	Param Intra 1 of 2
Total Dissolved Solids (mg/L)	MW-19	43.34	n/a	10/30/2023 29	No	17	22.09	10.35	5.882	None	No	0.00188	Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Non-parametric

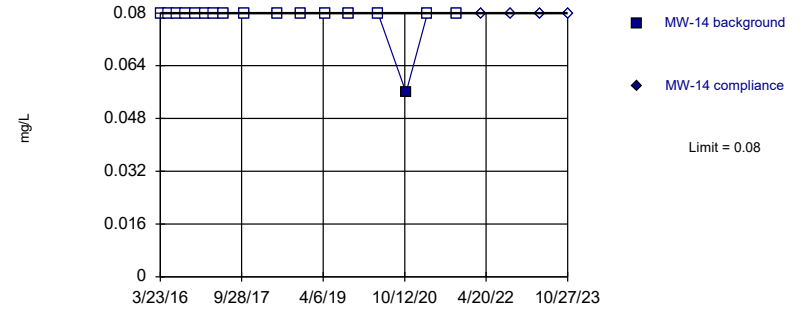


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 88.24% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Boron Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

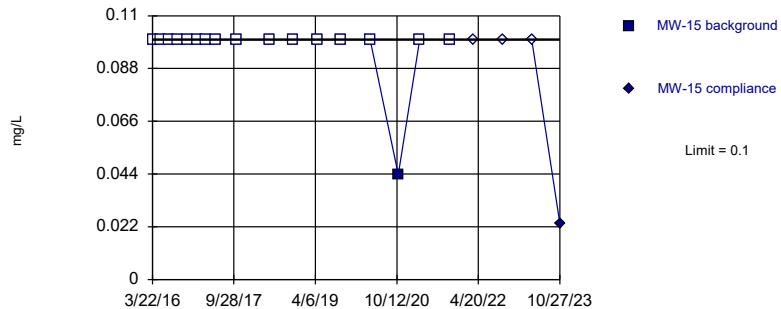


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 94.12% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Boron Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

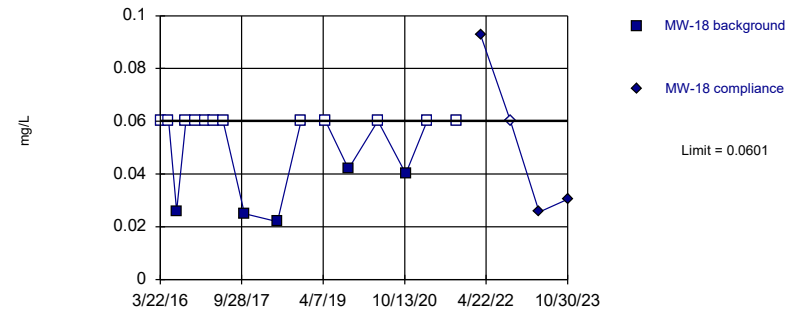


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 94.12% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Boron Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

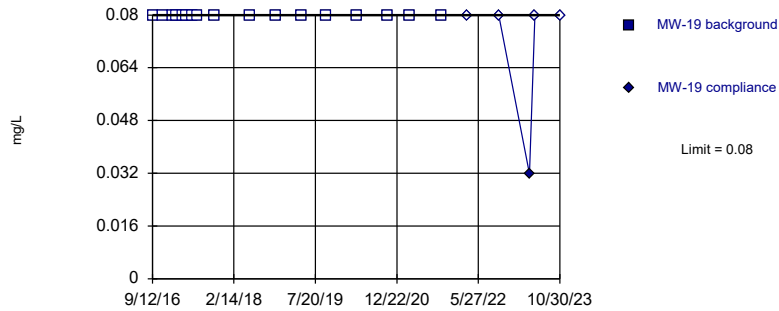


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 70.59% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Boron Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

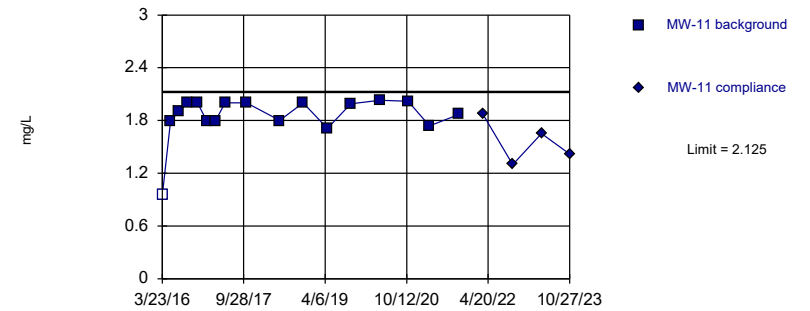


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Boron Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

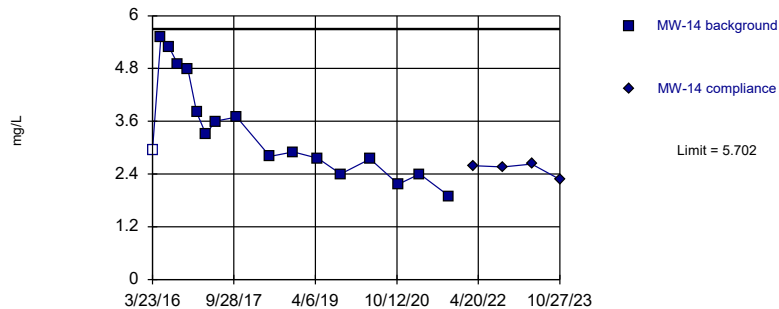


Background Data Summary (based on x*5 transformation): Mean=24.35, Std. Dev.=9.256, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8606, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

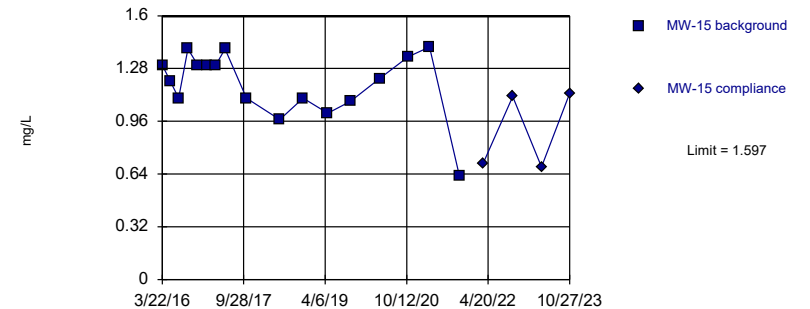


Background Data Summary: Mean=3.406, Std. Dev.=1.117, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9118, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

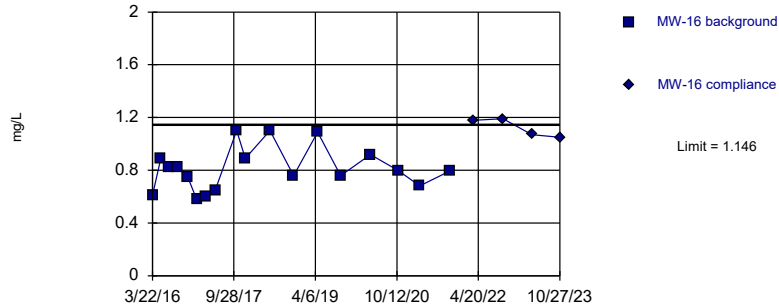


Background Data Summary: Mean=1.187, Std. Dev.=0.2, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8807, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

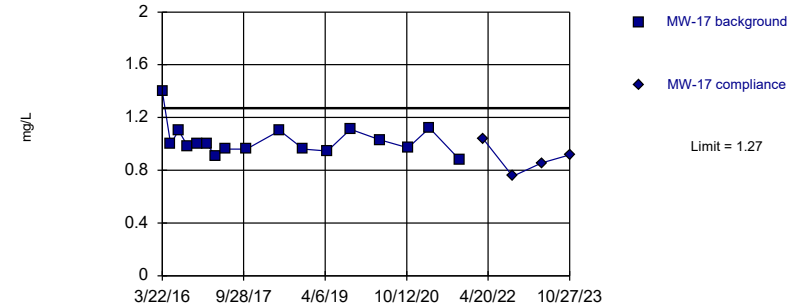


Background Data Summary: Mean=0.8117, Std. Dev.=0.1645, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9244, critical = 0.858. Kappa = 2.032 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

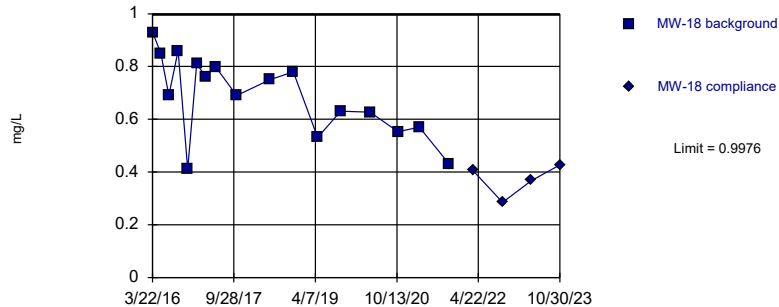


Background Data Summary (based on natural log transformation): Mean=0.01917, Std. Dev.=0.1071, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8548, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 12/1/2023 1:24 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

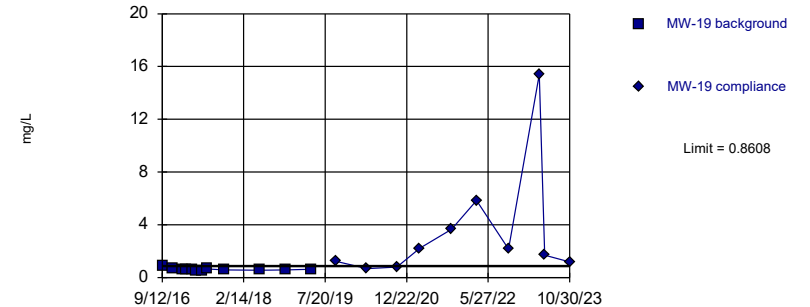


Background Data Summary: Mean=0.6866, Std. Dev.=0.1514, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.964, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

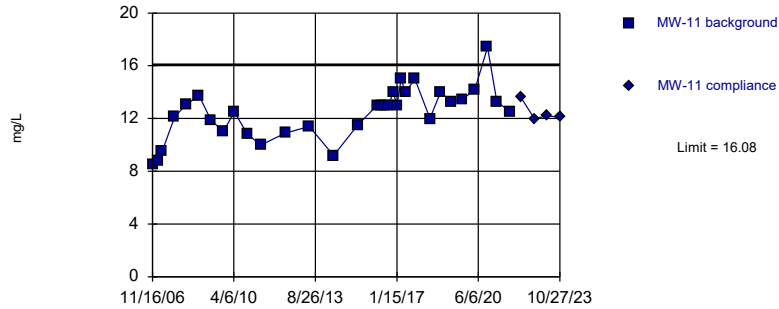


Background Data Summary (based on square root transformation): Mean=0.7847, Std. Dev.=0.06412, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8069, critical = 0.805. Kappa = 2.232 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Calcium Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Parametric

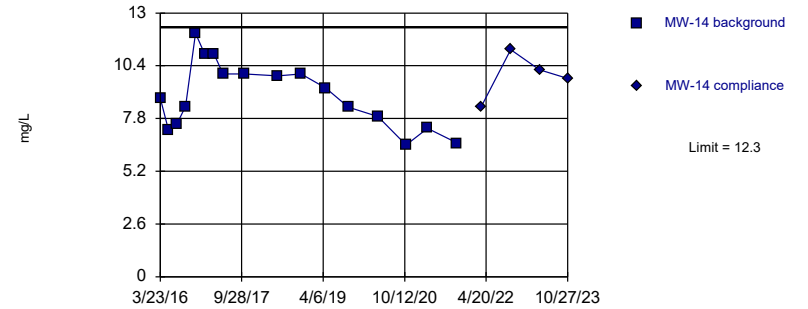


Background Data Summary: Mean=12.44, Std. Dev.=1.948, n=32. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9664, critical = 0.904. Kappa = 1.87 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Parametric

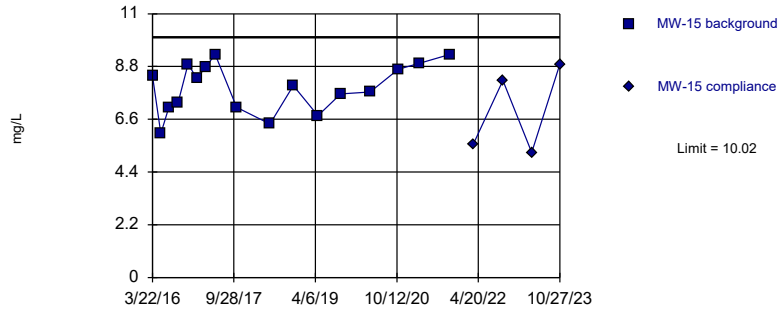


Background Data Summary: Mean=8.927, Std. Dev.=1.643, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9575, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit Intrawell Parametric

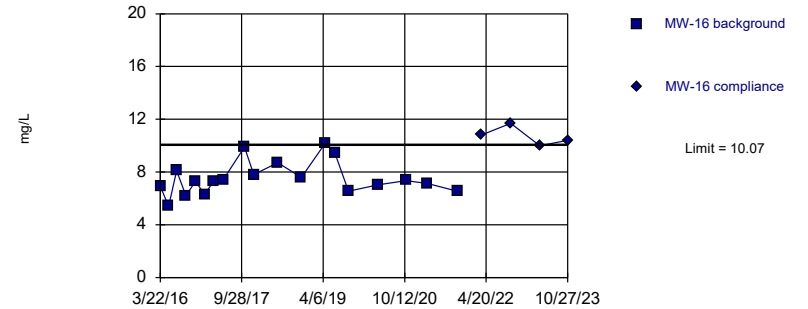


Background Data Summary: Mean=7.922, Std. Dev.=1.023, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9501, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit

Prediction Limit Intrawell Parametric

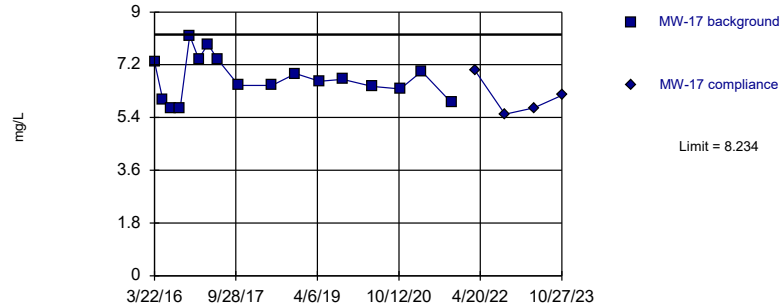


Background Data Summary: Mean=7.533, Std. Dev.=1.263, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9348, critical = 0.863. Kappa = 2.01 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

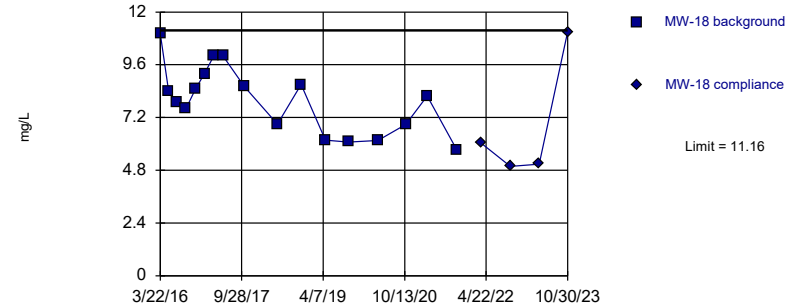


Background Data Summary: Mean=6.738, Std. Dev.=0.7281, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9598, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

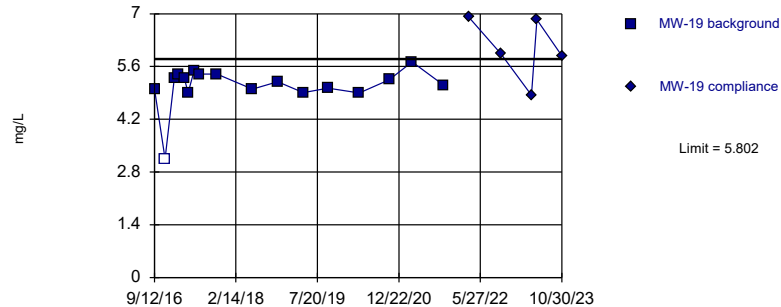


Background Data Summary: Mean=8, Std. Dev.=1.54, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.958, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

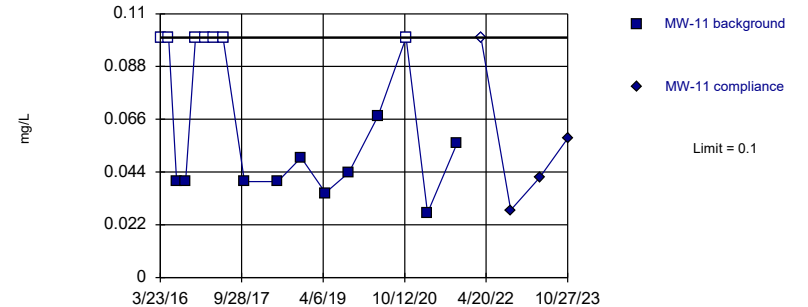


Background Data Summary (based on x^4 transformation): Mean=706.2, Std. Dev.=208.1, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.885, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Chloride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

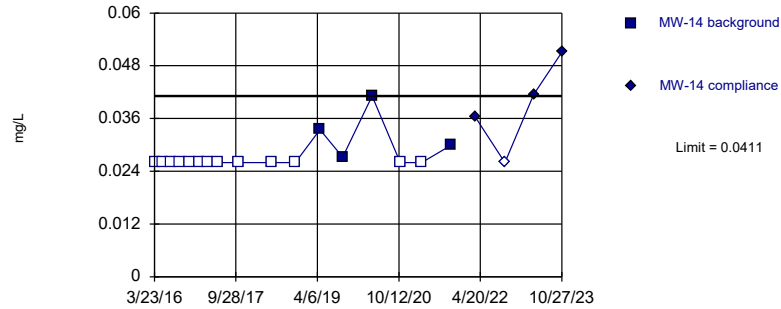
Within Limit

Prediction Limit
Intrawell Non-parametric



Within Limit

Prediction Limit
Intrawell Non-parametric

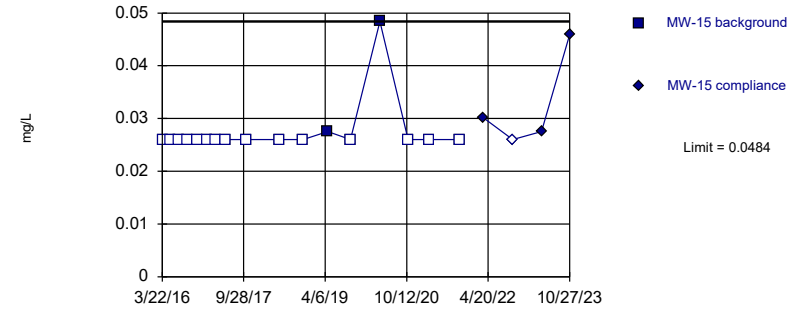


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

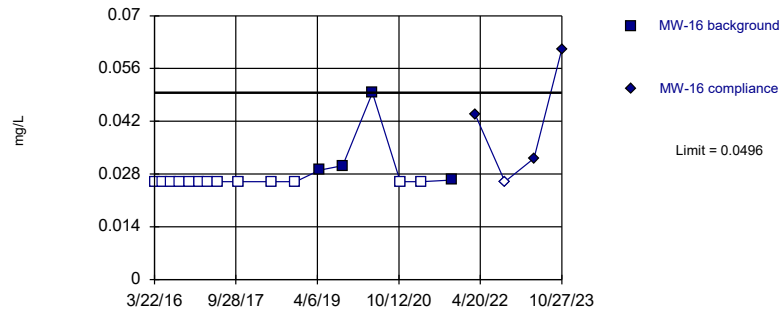


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 88.24% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

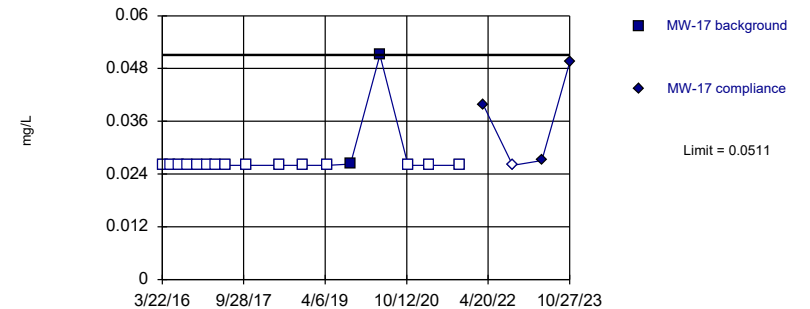


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

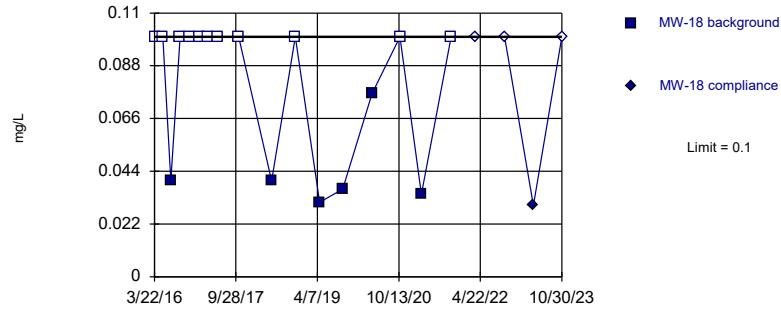


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 88.24% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

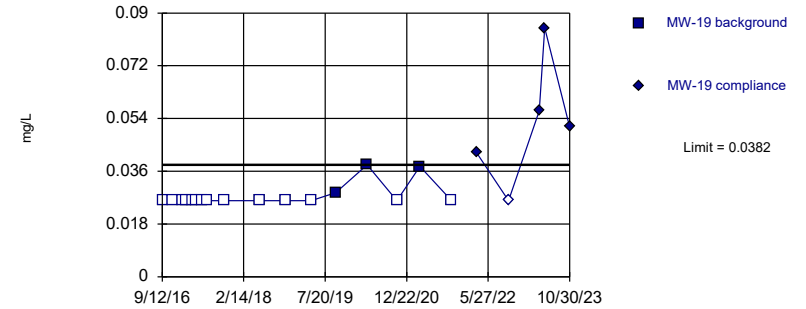


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 64.71% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

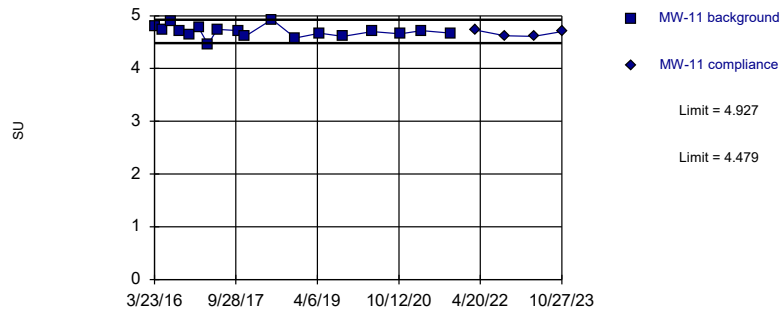


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 82.35% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit
Intrawell Parametric

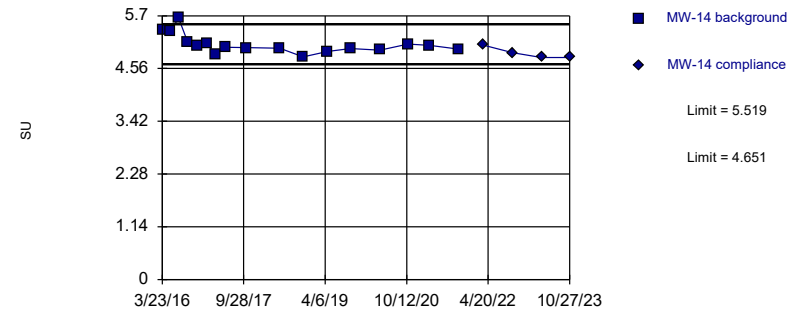


Background Data Summary: Mean=4.703, Std. Dev.=0.1101, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9628, critical = 0.858. Kappa = 2.032 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit
Intrawell Parametric

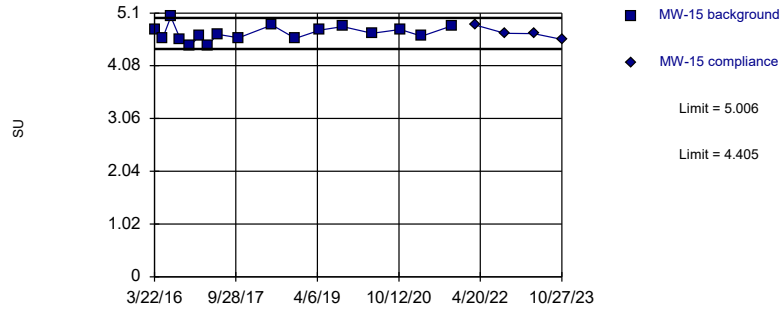


Background Data Summary: Mean=5.085, Std. Dev.=0.2112, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8539, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit Intrawell Parametric

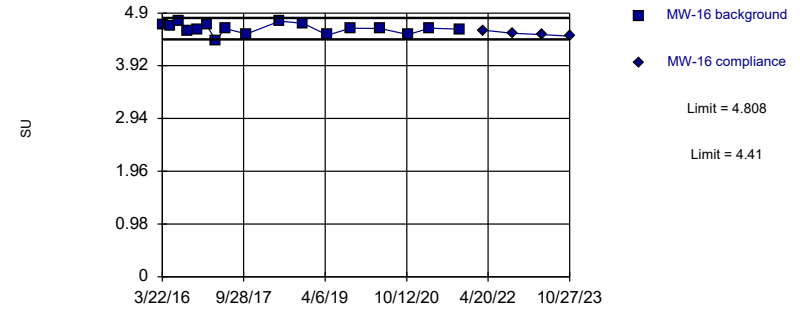


Background Data Summary: Mean=4.705, Std. Dev.=0.1462, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9668, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit Intrawell Parametric

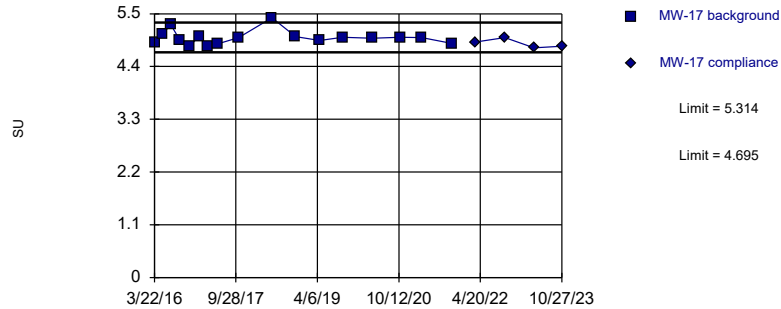


Background Data Summary: Mean=4.609, Std. Dev.=0.09695, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9549, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit Intrawell Parametric

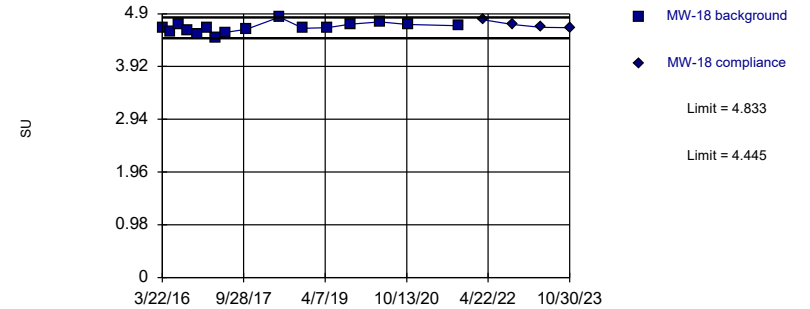


Background Data Summary (based on cube root transformation): Mean=1.71, Std. Dev.=0.0172, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8526, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit Intrawell Parametric

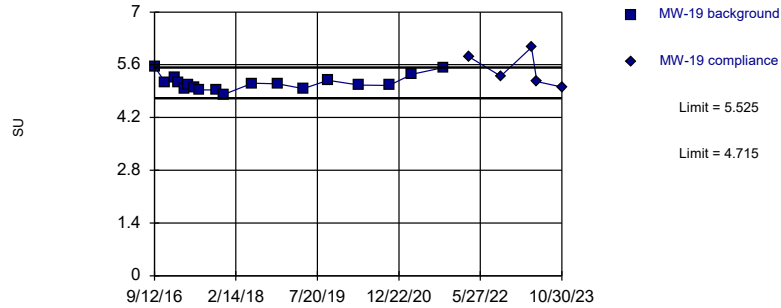


Background Data Summary: Mean=4.639, Std. Dev.=0.09337, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9831, critical = 0.844. Kappa = 2.076 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limits

Prediction Limit
Intrawell Parametric

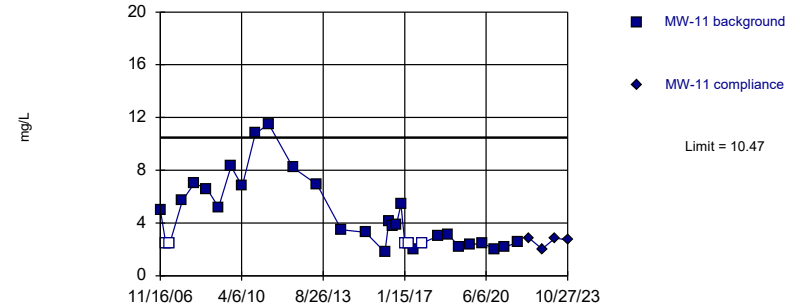


Background Data Summary: Mean=5.12, Std. Dev.=0.1992, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9196, critical = 0.858. Kappa = 2.032 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: pH Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

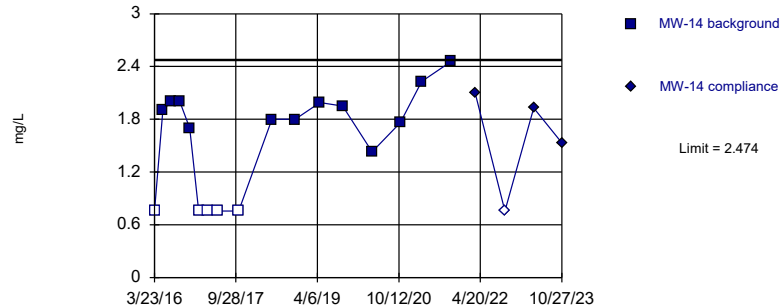


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=1.364, Std. Dev.=0.5266, n=32, 15.63% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9191, critical = 0.904. Kappa = 1.87 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Parametric

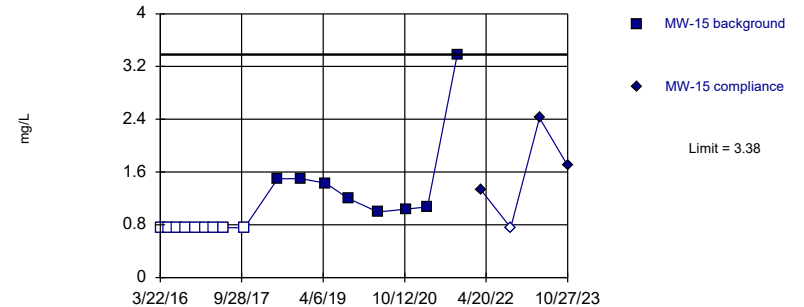


Background Data Summary (based on square transformation) (after Kaplan-Meier Adjustment): Mean=2.586, Std. Dev.=1.72, n=17, 29.41% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8933, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

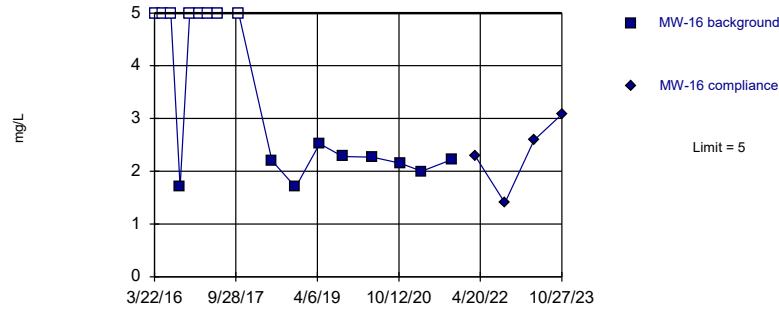


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 52.94% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Intrawell Non-parametric

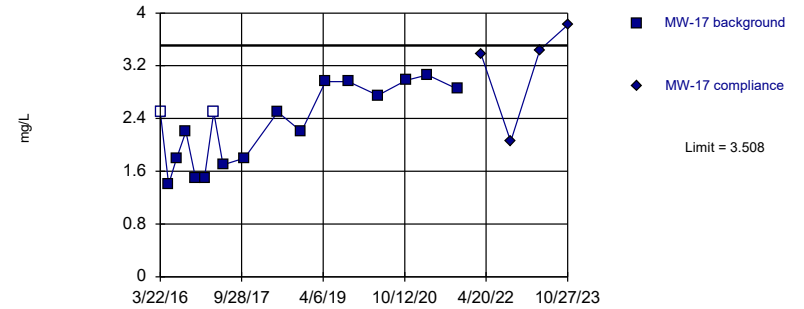


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. 47.06% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

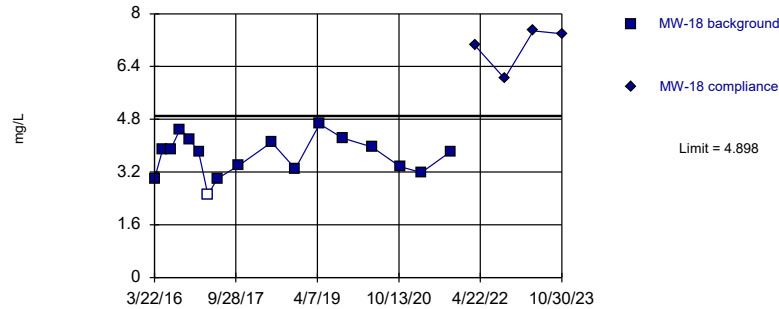


Background Data Summary: Mean=2.304, Std. Dev.=0.5866, n=17, 11.76% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9018, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Exceeds Limit

Prediction Limit
Intrawell Parametric

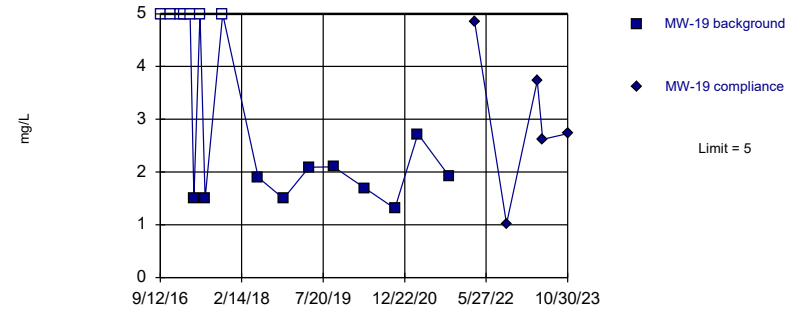


Background Data Summary: Mean=3.696, Std. Dev.=0.585, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9714, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Sulfate Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

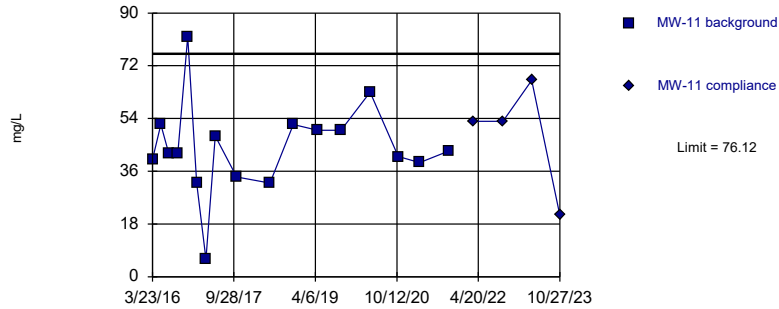
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. 41.18% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

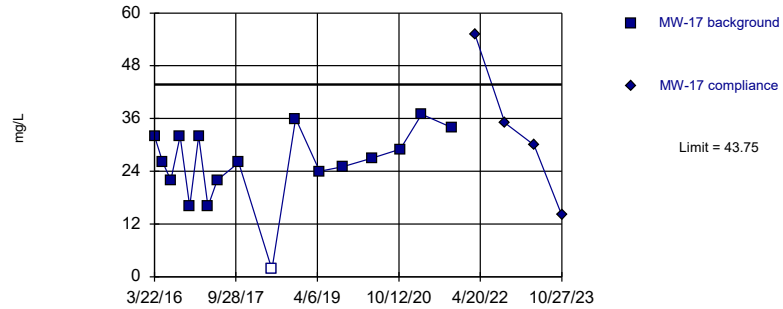
Within Limit Prediction Limit
Intrawell Parametric



Within Limit

Prediction Limit

Intrawell Parametric



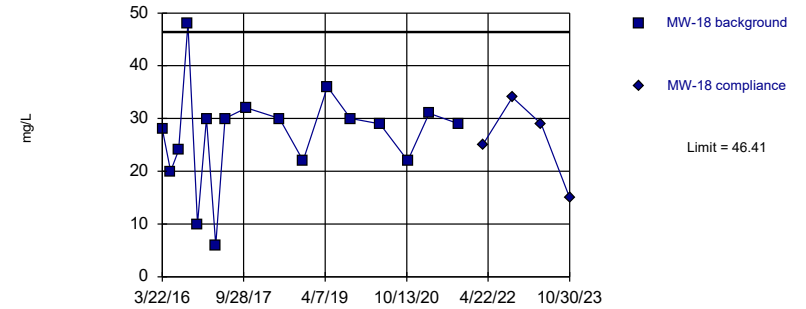
Background Data Summary: Mean=25.75, Std. Dev.=8.766, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9063, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit

Intrawell Parametric



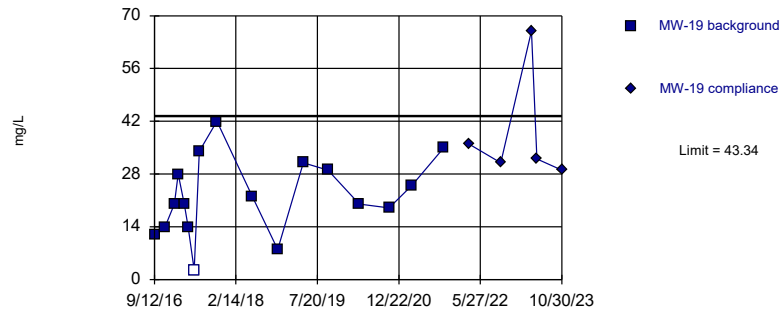
Background Data Summary: Mean=26.88, Std. Dev.=9.506, n=17. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9103, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=22.09, Std. Dev.=10.35, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9883, critical = 0.851. Kappa = 2.054 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.00188.

Constituent: Total Dissolved Solids Analysis Run 12/1/2023 1:25 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/1/2023 1:27 PM View: Inrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
3/23/2016	<0.1 (B1)	
5/18/2016	<0.1	
7/12/2016	<0.1	
9/12/2016	<0.1	
11/18/2016	<0.1	
1/19/2017	<0.1	
3/22/2017	<0.1	
5/24/2017	<0.1	
10/17/2017	<0.1	
5/31/2018	<0.1	
11/7/2018	<0.1	
4/22/2019	<0.1	
9/27/2019	0.0443 (J)	
4/13/2020	<0.1	
10/22/2020	0.103	
3/16/2021	<0.1	
10/5/2021	<0.1	
3/15/2022		<0.1
10/4/2022		<0.1
4/19/2023		<0.1
10/27/2023		0.0305 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	<0.08 (B1)	
5/18/2016	<0.08	
7/12/2016	<0.08	
9/12/2016	<0.08	
11/19/2016	<0.08	
1/18/2017	<0.08	
3/22/2017	<0.08	
5/24/2017	<0.08	
10/17/2017	<0.08	
6/1/2018	<0.08	
11/7/2018	<0.08	
4/23/2019	<0.08	
9/26/2019	<0.08	
4/13/2020	<0.08	
10/22/2020	0.0559 (J)	
3/16/2021	<0.08	
10/5/2021	<0.08	
3/15/2022		<0.08
10/4/2022		<0.08
4/19/2023		<0.08
10/27/2023		<0.08

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	<0.1 (B1)	
5/18/2016	<0.1	
7/12/2016	<0.1	
9/12/2016	<0.1	
11/19/2016	<0.1	
1/19/2017	<0.1	
3/21/2017	<0.1	
5/23/2017	<0.1	
10/17/2017	<0.1	
6/1/2018	<0.1	
11/7/2018	<0.1	
4/23/2019	<0.1	
9/26/2019	<0.1	
4/13/2020	<0.1	
10/22/2020	0.0437 (J)	
3/16/2021	<0.1	
10/5/2021	<0.1	
3/15/2022		<0.1
10/4/2022		<0.1
4/19/2023		<0.1
10/27/2023		0.0234 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	<0.0601 (B1)	
5/18/2016	<0.0601	
7/12/2016	0.026 (J)	
9/12/2016	<0.0601	
11/18/2016	<0.0601	
1/18/2017	<0.0601	
3/21/2017	<0.0601	
5/24/2017	<0.0601	
10/17/2017	0.025 (J)	
5/31/2018	0.022 (J)	
11/8/2018	<0.0601	
4/22/2019	<0.0601	
9/26/2019	0.042 (J)	
4/14/2020	<0.0601	
10/22/2020	0.0401 (J)	
3/16/2021	<0.0601	
10/5/2021	<0.0601	
3/16/2022		0.0927
10/5/2022		<0.0601
4/19/2023		0.0256 (J)
10/30/2023		0.0304 (J)

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	<0.08	
11/18/2016	<0.08	
1/18/2017	<0.08	
2/10/2017	<0.08	
3/21/2017	<0.08	
4/14/2017	<0.08	
5/23/2017	<0.08	
6/26/2017	<0.08	
10/17/2017	<0.08	
5/31/2018	<0.08	
11/8/2018	<0.08	
4/22/2019	<0.08	
9/26/2019	<0.08	
4/13/2020	<0.08	
10/21/2020	<0.08	
3/16/2021	<0.08	
10/5/2021	<0.08	
3/15/2022		<0.08
10/5/2022		<0.08
4/20/2023		0.0318 (J)
5/24/2023		<0.08
10/30/2023		<0.08

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
3/23/2016	<1.9 (*)	
5/18/2016	1.8	
7/12/2016	1.9	
9/12/2016	2	
11/18/2016	2	
1/19/2017	1.8	
3/22/2017	1.8	
5/24/2017	2	
10/17/2017	2	
5/31/2018	1.8	
11/7/2018	2	
4/22/2019	1.71	
9/27/2019	1.99	
4/13/2020	2.03	
10/22/2020	2.02	
3/16/2021	1.74	
10/5/2021	1.87	
3/15/2022		1.87
10/4/2022		1.3
4/19/2023		1.65
10/27/2023		1.42

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	<5.9 (*)	
5/18/2016	5.5	
7/12/2016	5.3	
9/12/2016	4.9	
11/19/2016	4.8	
1/18/2017	3.8	
3/22/2017	3.3	
5/24/2017	3.6	
10/17/2017	3.7	
6/1/2018	2.8	
11/7/2018	2.9	
4/23/2019	2.76	
9/26/2019	2.4	
4/13/2020	2.74	
10/22/2020	2.17	
3/16/2021	2.4	
10/5/2021	1.89	
3/15/2022		2.59
10/4/2022		2.56
4/19/2023		2.63
10/27/2023		2.28

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	1.3 (B1)	
5/18/2016	1.2	
7/12/2016	1.1	
9/12/2016	1.4	
11/19/2016	1.3	
1/19/2017	1.3	
3/21/2017	1.3	
5/23/2017	1.4	
10/17/2017	1.1	
6/1/2018	0.97	
11/7/2018	1.1	
4/23/2019	1.01	
9/26/2019	1.08	
4/13/2020	1.22	
10/22/2020	1.35	
3/16/2021	1.41	
10/5/2021	0.632	
3/15/2022		0.703
10/4/2022		1.11
4/19/2023		0.682
10/27/2023		1.13

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	0.61 (B1)	
5/18/2016	0.89	
7/11/2016	0.82	
9/13/2016	0.82	
11/17/2016	0.75	
1/18/2017	0.58	
3/21/2017	0.6	
5/23/2017	0.65	
10/17/2017	1.1	
12/15/2017	0.89 (RS)	
5/31/2018	1.1	
11/8/2018	0.76	
4/22/2019	1.09	
9/26/2019	0.758	
4/14/2020	0.92	
10/21/2020	0.798	
3/16/2021	0.681	
10/5/2021	0.793	
3/15/2022		1.18
10/5/2022		1.19
4/20/2023		1.07
10/27/2023		1.05

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	1.4 (B1)	
5/18/2016	1	
7/12/2016	1.1	
9/12/2016	0.98	
11/18/2016	1	
1/18/2017	1	
3/21/2017	0.91	
5/24/2017	0.96	
10/17/2017	0.96	
5/31/2018	1.1	
11/8/2018	0.96	
4/22/2019	0.946	
9/26/2019	1.11	
4/13/2020	1.03	
10/22/2020	0.969	
3/16/2021	1.12	
10/5/2021	0.883	
3/16/2022		1.04
10/5/2022		0.755
4/20/2023		0.855
10/27/2023		0.916

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	0.93 (B1)	
5/18/2016	0.85	
7/12/2016	0.69	
9/12/2016	0.86	
11/18/2016	0.41	
1/18/2017	0.81	
3/21/2017	0.76	
5/24/2017	0.8	
10/17/2017	0.69	
5/31/2018	0.75	
11/8/2018	0.78	
4/22/2019	0.531	
9/26/2019	0.631	
4/14/2020	0.627	
10/22/2020	0.553	
3/16/2021	0.57	
10/5/2021	0.43 (J)	
3/16/2022		0.406 (J)
10/5/2022		0.285 (J)
4/19/2023		0.368 (J)
10/30/2023		0.427 (J)

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	0.92	
11/18/2016	0.68	
1/18/2017	0.64	
2/10/2017	0.58	
3/21/2017	0.56	
4/14/2017	0.51	
5/23/2017	0.54	
6/26/2017	0.66	
10/17/2017	0.58	
5/31/2018	0.56	
11/8/2018	0.57	
4/22/2019	0.634	
9/26/2019		1.24
4/13/2020		0.687
10/21/2020		0.806
3/16/2021		2.23
10/5/2021		3.67
3/15/2022		5.84
10/5/2022		2.16
4/20/2023		15.4
5/24/2023		1.7
10/30/2023		1.19

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
11/16/2006	8.5	
2/5/2007	8.8	
4/12/2007	9.5	
10/17/2007	12.1	
4/17/2008	13.1	
10/24/2008	13.7	
4/21/2009	11.9	
10/26/2009	11	
4/12/2010	12.5	
10/30/2010	10.8	
5/25/2011	10	
5/25/2012	10.9	
5/28/2013	11.4	
5/31/2014	9.2	
5/29/2015	11.5	
3/23/2016	13	
5/18/2016	13	
7/12/2016	13	
9/12/2016	13	
11/18/2016	14	
1/19/2017	13	
3/22/2017	15	
5/24/2017	14	
10/17/2017	15	
5/31/2018	12	
11/7/2018	14	
4/22/2019	13.3	
9/27/2019	13.4	
4/13/2020	14.2	
10/22/2020	17.4	
3/16/2021	13.3	
10/5/2021	12.5	
3/15/2022		13.6
10/4/2022		12
4/19/2023		12.2
10/27/2023		12.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	8.8 (B1)	
5/18/2016	7.2	
7/12/2016	7.5	
9/12/2016	8.4	
11/19/2016	12	
1/18/2017	11	
3/22/2017	11	
5/24/2017	10	
10/17/2017	10	
6/1/2018	9.9	
11/7/2018	10	
4/23/2019	9.3	
9/26/2019	8.35	
4/13/2020	7.9	
10/22/2020	6.5	
3/16/2021	7.32	
10/5/2021	6.59	
3/15/2022		8.36
10/4/2022		11.2
4/19/2023		10.2
10/27/2023		9.77

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	8.4 (B1)	
5/18/2016	6	
7/12/2016	7.1	
9/12/2016	7.3	
11/19/2016	8.9	
1/19/2017	8.3	
3/21/2017	8.8	
5/23/2017	9.3	
10/17/2017	7.1	
6/1/2018	6.4	
11/7/2018	8	
4/23/2019	6.75	
9/26/2019	7.66	
4/13/2020	7.74	
10/22/2020	8.69	
3/16/2021	8.94	
10/5/2021	9.3	
3/15/2022		5.55
10/4/2022		8.22
4/19/2023		5.21
10/27/2023		8.9

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	6.9 (B1)	
5/18/2016	5.4	
7/11/2016	8.1	
9/13/2016	6.2	
11/17/2016	7.3	
1/18/2017	6.3	
3/21/2017	7.3	
5/23/2017	7.4	
10/17/2017	9.9	
12/19/2017	7.8 (RS)	
5/31/2018	8.7	
11/8/2018	7.6	
4/22/2019	10.2	
6/25/2019	9.4	
9/26/2019	6.54	
4/14/2020	7.03	
10/21/2020	7.36	
3/16/2021	7.14	
10/5/2021	6.55	
3/15/2022		10.8
10/5/2022		11.7
4/20/2023		10
10/27/2023		10.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	7.3 (B1)	
5/18/2016	6	
7/12/2016	5.7	
9/12/2016	5.7	
11/18/2016	8.2	
1/18/2017	7.4	
3/21/2017	7.9	
5/24/2017	7.4	
10/17/2017	6.5	
5/31/2018	6.5	
11/8/2018	6.9	
4/22/2019	6.64	
9/26/2019	6.7	
4/13/2020	6.46	
10/22/2020	6.37	
3/16/2021	6.97	
10/5/2021	5.91	
3/16/2022		7
10/5/2022		5.51
4/20/2023		5.73
10/27/2023		6.16

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	11 (B1)	
5/18/2016	8.4	
7/12/2016	7.9	
9/12/2016	7.6	
11/18/2016	8.5	
1/18/2017	9.2	
3/21/2017	10	
5/24/2017	10	
10/17/2017	8.6	
5/31/2018	6.9	
11/8/2018	8.7	
4/22/2019	6.17	
9/26/2019	6.09	
4/14/2020	6.15	
10/22/2020	6.89	
3/16/2021	8.18	
10/5/2021	5.72	
3/16/2022		6.05
10/5/2022		4.97
4/19/2023		5.08
10/30/2023		11.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	5	
11/18/2016	<6.3 (*)	
1/18/2017	5.3	
2/10/2017	5.4	
3/21/2017	5.3	
4/14/2017	4.9 (B)	
5/23/2017	5.5	
6/26/2017	5.4	
10/17/2017	5.4	
5/31/2018	5	
11/8/2018	5.2	
4/22/2019	4.91	
9/26/2019	5.03	
4/13/2020	4.9	
10/21/2020	5.25	
3/16/2021	5.72	
10/5/2021	5.1	
3/15/2022		6.91
10/5/2022		5.94
4/20/2023		4.84
5/24/2023		6.84
10/30/2023		5.88

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
3/23/2016	<0.1	
5/18/2016	<0.1	
7/12/2016	0.04 (J)	
9/12/2016	0.04 (J)	
11/18/2016	<0.1	
1/19/2017	<0.1	
3/22/2017	<0.1	
5/24/2017	<0.1	
10/17/2017	0.04 (J)	
5/31/2018	0.04 (J)	
11/7/2018	0.05 (J)	
4/22/2019	0.0353 (J)	
9/27/2019	0.0438 (J)	
4/13/2020	0.0672 (J)	
10/22/2020	<0.1	
3/16/2021	0.0269 (J)	
10/5/2021	0.0561 (J)	
3/15/2022		<0.1
10/4/2022		0.0281 (J)
4/19/2023		0.0416 (J)
10/27/2023		0.058 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	<0.026 (B1)	
5/18/2016	<0.026	
7/12/2016	<0.026	
9/12/2016	<0.026	
11/19/2016	<0.026	
1/18/2017	<0.026	
3/22/2017	<0.026	
5/24/2017	<0.026	
10/17/2017	<0.026	
6/1/2018	<0.026	
11/7/2018	<0.026	
4/23/2019	0.0335 (J)	
9/26/2019	0.0272 (J)	
4/13/2020	0.0411 (J)	
10/22/2020	<0.026	
3/16/2021	<0.026	
10/5/2021	0.03 (J)	
3/15/2022		0.0364 (J)
10/4/2022		<0.026
4/19/2023		0.0415 (J)
10/27/2023		0.0511 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	<0.026 (B1)	
5/18/2016	<0.026	
7/12/2016	<0.026	
9/12/2016	<0.026	
11/19/2016	<0.026	
1/19/2017	<0.026	
3/21/2017	<0.026	
5/23/2017	<0.026	
10/17/2017	<0.026	
6/1/2018	<0.026	
11/7/2018	<0.026	
4/23/2019	0.0275 (J)	
9/26/2019	<0.026	
4/13/2020	0.0484 (J)	
10/22/2020	<0.026	
3/16/2021	<0.026	
10/5/2021	<0.026	
3/15/2022		0.0302 (J)
10/4/2022		<0.026
4/19/2023		0.0275 (J)
10/27/2023		0.0459 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	<0.026 (B1)	
5/18/2016	<0.026	
7/11/2016	<0.026	
9/13/2016	<0.026	
11/17/2016	<0.026	
1/18/2017	<0.026	
3/21/2017	<0.026	
5/23/2017	<0.026	
10/17/2017	<0.026	
5/31/2018	<0.026	
11/8/2018	<0.026	
4/22/2019	0.029 (J)	
9/26/2019	0.0302 (J)	
4/14/2020	0.0496 (J)	
10/21/2020	<0.026	
3/16/2021	<0.026	
10/5/2021	0.0264 (J)	
3/15/2022		0.0438 (J)
10/5/2022		<0.026
4/20/2023		0.0322 (J)
10/27/2023		0.0612 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	<0.026 (B1)	
5/18/2016	<0.026	
7/12/2016	<0.026	
9/12/2016	<0.026	
11/18/2016	<0.026	
1/18/2017	<0.026	
3/21/2017	<0.026	
5/24/2017	<0.026	
10/17/2017	<0.026	
5/31/2018	<0.026	
11/8/2018	<0.026	
4/22/2019	<0.026	
9/26/2019	0.0263 (J)	
4/13/2020	0.0511 (J)	
10/22/2020	<0.026	
3/16/2021	<0.026	
10/5/2021	<0.026	
3/16/2022		0.0399 (J)
10/5/2022		<0.026
4/20/2023		0.0271 (J)
10/27/2023		0.0494 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	<0.1 (B1)	
5/18/2016	<0.1	
7/12/2016	0.04 (J)	
9/12/2016	<0.1	
11/18/2016	<0.1	
1/18/2017	<0.1	
3/21/2017	<0.1	
5/24/2017	<0.1	
10/17/2017	<0.1	
5/31/2018	0.04 (J)	
11/8/2018	<0.1	
4/22/2019	0.0311 (J)	
9/26/2019	0.0366 (J)	
4/14/2020	0.0764 (J)	
10/22/2020	<0.1	
3/16/2021	0.0344 (J)	
10/5/2021	<0.1	
3/16/2022		<0.1
10/5/2022		<0.1
4/19/2023		0.0297 (J)
10/30/2023		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	<0.026	
11/18/2016	<0.026	
1/18/2017	<0.026	
2/10/2017	<0.026	
3/21/2017	<0.026	
4/14/2017	<0.026	
5/23/2017	<0.026	
6/26/2017	<0.026	
10/17/2017	<0.026	
5/31/2018	<0.026	
11/8/2018	<0.026	
4/22/2019	<0.026	
9/26/2019	0.0287 (J)	
4/13/2020	0.0382 (J)	
10/21/2020	<0.026	
3/16/2021	0.0376 (J)	
10/5/2021	<0.026	
3/15/2022		0.0423 (J)
10/5/2022		<0.026
4/20/2023		0.0566 (J)
5/24/2023		0.0849 (J)
10/30/2023		0.0511 (J)

Prediction Limit

Constituent: pH (SU) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
3/23/2016	4.8	
5/18/2016	4.74	
7/12/2016	4.9	
9/12/2016	4.72	
11/18/2016	4.65	
1/19/2017	4.77	
3/22/2017	4.46	
5/24/2017	4.74	
10/17/2017	4.72	
11/30/2017	4.61	
5/31/2018	4.93	
11/7/2018	4.58	
4/22/2019	4.67	
9/27/2019	4.61	
4/13/2020	4.7	
10/22/2020	4.66	
3/16/2021	4.72	
10/5/2021	4.67	
3/15/2022		4.73
10/4/2022		4.62
4/19/2023		4.61
10/27/2023		4.7

Prediction Limit

Constituent: pH (SU) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	5.4	
5/18/2016	5.38	
7/12/2016	5.65	
9/12/2016	5.14	
11/19/2016	5.05	
1/18/2017	5.11	
3/22/2017	4.86	
5/24/2017	5.02	
10/17/2017	5.01	
6/1/2018	5	
11/7/2018	4.81	
4/23/2019	4.93	
9/26/2019	4.99	
4/13/2020	4.96	
10/22/2020	5.09	
3/16/2021	5.06	
10/5/2021	4.98	
3/15/2022		5.07
10/4/2022		4.9
4/19/2023		4.8
10/27/2023		4.8

Prediction Limit

Constituent: pH (SU) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	4.77	
5/18/2016	4.62	
7/12/2016	5.03	
9/12/2016	4.6	
11/19/2016	4.46	
1/19/2017	4.65	
3/21/2017	4.47	
5/23/2017	4.69	
10/17/2017	4.62	
6/1/2018	4.87	
11/7/2018	4.61	
4/23/2019	4.77	
9/26/2019	4.84	
4/13/2020	4.71	
10/22/2020	4.78	
3/16/2021	4.65	
10/5/2021	4.85	
3/15/2022		4.87
10/4/2022		4.71
4/19/2023		4.7
10/27/2023		4.59

Prediction Limit

Constituent: pH (SU) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	4.68	
5/18/2016	4.67	
7/11/2016	4.75	
9/13/2016	4.56	
11/17/2016	4.6	
1/18/2017	4.68	
3/21/2017	4.39	
5/23/2017	4.61	
10/17/2017	4.51	
5/31/2018	4.75	
11/8/2018	4.71	
4/22/2019	4.49	
9/26/2019	4.62	
4/14/2020	4.61	
10/21/2020	4.5	
3/16/2021	4.62	
10/5/2021	4.6	
3/15/2022		4.58
10/5/2022		4.52
4/20/2023		4.5
10/27/2023		4.47

Prediction Limit

Constituent: pH (SU) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	4.89	
5/18/2016	5.09	
7/12/2016	5.27	
9/12/2016	4.94	
11/18/2016	4.82	
1/18/2017	5.02	
3/21/2017	4.82	
5/24/2017	4.87	
10/17/2017	5	
5/31/2018	5.42	
11/8/2018	5.02	
4/22/2019	4.94	
9/26/2019	5.01	
4/13/2020	4.99	
10/22/2020	5.01	
3/16/2021	5	
10/5/2021	4.88	
3/16/2022		4.91
10/5/2022		5
4/20/2023		4.79
10/27/2023		4.82

Prediction Limit

Constituent: pH (SU) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	4.63	
5/18/2016	4.58	
7/12/2016	4.7	
9/12/2016	4.6	
11/18/2016	4.52	
1/18/2017	4.63	
3/21/2017	4.45	
5/24/2017	4.55	
10/17/2017	4.61	
5/31/2018	4.84	
11/8/2018	4.63	
4/22/2019	4.64	
9/26/2019	4.71	
4/14/2020	4.75	
10/22/2020	4.7	
10/5/2021	4.68	
3/16/2022		4.79
10/5/2022		4.7
4/19/2023		4.65
10/30/2023		4.64

Prediction Limit

Constituent: pH (SU) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	5.55	
11/18/2016	5.14	
1/18/2017	5.27	
2/10/2017	5.14	
3/21/2017	4.96	
4/14/2017	5.07	
5/23/2017	5.01	
6/26/2017	4.93	
10/17/2017	4.93	
11/30/2017	4.81	
5/31/2018	5.11	
11/8/2018	5.09	
4/22/2019	4.97	
9/26/2019	5.19	
4/13/2020	5.06	
10/21/2020	5.05	
3/16/2021	5.35	
10/5/2021	5.53	
3/15/2022		5.82
10/5/2022		5.3
4/20/2023		6.06
5/24/2023		5.15
10/30/2023		5.01

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
11/16/2006	5	
2/5/2007	<5	
4/12/2007	<5	
10/17/2007	5.7	
4/17/2008	7	
10/24/2008	6.6	
4/21/2009	5.2	
10/26/2009	8.3	
4/12/2010	6.8	
10/30/2010	10.8	
5/25/2011	11.5	
5/25/2012	8.2	
5/28/2013	6.9	
5/31/2014	3.5	
5/29/2015	3.3	
3/23/2016	1.8 (J)	
5/18/2016	4.1	
7/12/2016	3.8 (J)	
9/12/2016	3.9 (J)	
11/18/2016	5.4	
1/19/2017	<5	
3/22/2017	<5	
5/24/2017	2 (J)	
10/17/2017	<5	
5/31/2018	3 (J)	
11/7/2018	3.1 (J)	
4/22/2019	2.22	
9/27/2019	2.36	
4/13/2020	2.47	
10/22/2020	2.01	
3/16/2021	2.15	
10/5/2021	2.57	
3/15/2022		2.88
10/4/2022		2.04
4/19/2023		2.85
10/27/2023		2.72

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	<0.756	
5/18/2016	1.9	
7/12/2016	2 (J)	
9/12/2016	2 (J)	
11/19/2016	1.7 (J)	
1/18/2017	<0.756	
3/22/2017	<0.756	
5/24/2017	<0.756	
10/17/2017	<0.756	
6/1/2018	1.8 (J)	
11/7/2018	1.8 (J)	
4/23/2019	1.99	
9/26/2019	1.95	
4/13/2020	1.43	
10/22/2020	1.76	
3/16/2021	2.23	
10/5/2021	2.46	
3/15/2022		2.1
10/4/2022		<0.756
4/19/2023		1.93
10/27/2023		1.53

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	<0.756	
5/18/2016	<0.756	
7/12/2016	<0.756	
9/12/2016	<0.756	
11/19/2016	<0.756	
1/19/2017	<0.756	
3/21/2017	<0.756	
5/23/2017	<0.756	
10/17/2017	<0.756	
6/1/2018	1.5 (J)	
11/7/2018	1.5 (J)	
4/23/2019	1.43	
9/26/2019	1.2	
4/13/2020	0.992 (J)	
10/22/2020	1.04	
3/16/2021	1.07	
10/5/2021	3.38	
3/15/2022		1.33
10/4/2022		<0.756
4/19/2023		2.42
10/27/2023		1.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	<5	
5/18/2016	<5	
7/11/2016	<5	
9/13/2016	1.7 (J)	
11/17/2016	<5	
1/18/2017	<5	
3/21/2017	<5	
5/23/2017	<5	
10/17/2017	<5	
5/31/2018	2.2 (J)	
11/8/2018	1.7 (J)	
4/22/2019	2.52	
9/26/2019	2.28	
4/14/2020	2.27	
10/21/2020	2.15	
3/16/2021	2	
10/5/2021	2.22	
3/15/2022		2.29
10/5/2022		1.4
4/20/2023		2.59
10/27/2023		3.08

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	<5	
5/18/2016	1.4	
7/12/2016	1.8 (J)	
9/12/2016	2.2 (J)	
11/18/2016	1.5 (J)	
1/18/2017	1.5 (J)	
3/21/2017	<5	
5/24/2017	1.7 (J)	
10/17/2017	1.8 (J)	
5/31/2018	2.5 (J)	
11/8/2018	2.2 (J)	
4/22/2019	2.96	
9/26/2019	2.96	
4/13/2020	2.75	
10/22/2020	2.98	
3/16/2021	3.06	
10/5/2021	2.85	
3/16/2022		3.38
10/5/2022		2.05
4/20/2023		3.44
10/27/2023		3.82

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	3 (J)	
5/18/2016	3.9 (J)	
7/12/2016	3.9 (J)	
9/12/2016	4.5 (J)	
11/18/2016	4.2 (J)	
1/18/2017	3.8 (J)	
3/21/2017	<5 (*)	
5/24/2017	3 (J)	
10/17/2017	3.4 (J)	
5/31/2018	4.1 (J)	
11/8/2018	3.3 (J)	
4/22/2019	4.66	
9/26/2019	4.23	
4/14/2020	3.96	
10/22/2020	3.37	
3/16/2021	3.18	
10/5/2021	3.83	
3/16/2022		7.04
10/5/2022		6.04
4/19/2023		7.48
10/30/2023		7.39

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	<5	
11/18/2016	<5	
1/18/2017	<5	
2/10/2017	<5	
3/21/2017	<5	
4/14/2017	1.5 (J)	
5/23/2017	<5	
6/26/2017	1.5 (J)	
10/17/2017	<5	
5/31/2018	1.9 (J)	
11/8/2018	1.5 (J)	
4/22/2019	2.09	
9/26/2019	2.1	
4/13/2020	1.69	
10/21/2020	1.31	
3/16/2021	2.72	
10/5/2021	1.91	
3/15/2022		4.86
10/5/2022		1.02
4/20/2023		3.73
5/24/2023		2.62
10/30/2023		2.73

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11	MW-11
3/23/2016	40	
5/18/2016	52	
7/12/2016	42	
9/12/2016	42	
11/18/2016	82	
1/19/2017	32	
3/22/2017	6	
5/24/2017	48	
10/17/2017	34	
5/31/2018	32	
11/7/2018	52	
4/22/2019	50	
9/27/2019	50	
4/13/2020	63	
10/22/2020	41	
3/16/2021	39	
10/5/2021	43	
3/15/2022		53
10/4/2022		53
4/19/2023		67
10/27/2023		21

Prediction Limit

Constituent: T Total Dissolved Solids (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-14	MW-14
3/23/2016	48 (B1)	
5/18/2016	26	
7/12/2016	24	
9/12/2016	32	
11/19/2016	76	
1/18/2017	48	
3/22/2017	30	
5/24/2017	46	
10/17/2017	8	
6/1/2018	44	
11/7/2018	26	
4/23/2019	48	
9/26/2019	39	
4/13/2020	28	
10/22/2020	25	
3/16/2021	41	
10/5/2021	29	
3/15/2022		56
10/4/2022		52
4/19/2023		41
10/27/2023		23

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-15	MW-15
3/22/2016	34 (B1)	
5/18/2016	24	
7/12/2016	24	
9/12/2016	4 (J)	
11/19/2016	44	
1/19/2017	26	
3/21/2017	20	
5/23/2017	6	
10/17/2017	58	
12/15/2017	20 (RS)	
6/1/2018	26	
11/7/2018	8	
4/23/2019	34	
9/26/2019	32	
4/13/2020	39	
10/22/2020	34	
3/16/2021	34	
10/5/2021	25	
3/15/2022		51
10/4/2022		42
4/19/2023		31
10/27/2023		24

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-16	MW-16
3/22/2016	42 (B1)	
5/18/2016	<5	
7/11/2016	<5	
9/13/2016	48	
11/17/2016	20	
1/18/2017	18	
3/21/2017	8	
5/23/2017	<5	
10/17/2017	58	
5/31/2018	24	
11/8/2018	4 (J)	
4/22/2019	46	
9/26/2019	27	
4/14/2020	36	
10/21/2020	33	
3/16/2021	27	
10/5/2021	29	
3/15/2022		34
10/5/2022		42
4/20/2023		37
10/27/2023		21

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-17	MW-17
3/22/2016	32 (B1)	
5/18/2016	26	
7/12/2016	22	
9/12/2016	32	
11/18/2016	16	
1/18/2017	32	
3/21/2017	16	
5/24/2017	22	
10/17/2017	26	
5/31/2018	<3.4	
11/8/2018	36	
4/22/2019	24	
9/26/2019	25	
4/13/2020	27	
10/22/2020	29	
3/16/2021	37	
10/5/2021	34	
3/16/2022		55
10/5/2022		35
4/20/2023		30
10/27/2023		14

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/1/2023 1:27 PM View: Intrawell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18	MW-18
3/22/2016	28 (B1)	
5/18/2016	20	
7/12/2016	24	
9/12/2016	48	
11/18/2016	10	
1/18/2017	30	
3/21/2017	6	
5/24/2017	30	
10/17/2017	32	
5/31/2018	30	
11/8/2018	22	
4/22/2019	36	
9/26/2019	30	
4/14/2020	29	
10/22/2020	22	
3/16/2021	31	
10/5/2021	29	
3/16/2022		25
10/5/2022		34
4/19/2023		29
10/30/2023		15

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 12/1/2023 1:27 PM View: IntraWell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-19	MW-19
9/12/2016	12	
11/18/2016	14	
1/18/2017	20	
2/10/2017	28	
3/21/2017	20	
4/14/2017	14	
5/23/2017	<5	
6/26/2017	34	
10/17/2017	42	
5/31/2018	22	
11/8/2018	8	
4/22/2019	31	
9/26/2019	29	
4/13/2020	20	
10/21/2020	19	
3/16/2021	25	
10/5/2021	35	
3/15/2022		36
10/5/2022		31
4/20/2023		66
5/24/2023		32
10/30/2023		29

FIGURE E.

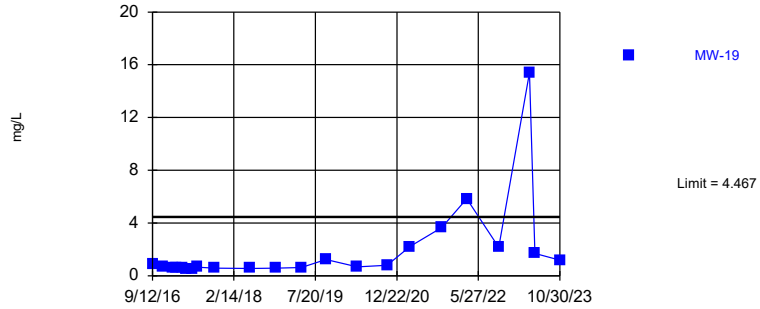
Interwell Prediction Limits - Two-Step - All Results (No Significant)

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:30 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Calcium (mg/L)	MW-19	4.467	n/a	10/30/2023	1.19	No	63	1.31	0.4517	3.175	None	sqrt(x)	0.00188	Param Inter 1 of 2
Chloride (mg/L)	MW-16	15.07	n/a	10/27/2023	10.4	No	78	10.29	2.713	0	None	No	0.00188	Param Inter 1 of 2
Chloride (mg/L)	MW-19	15.07	n/a	10/30/2023	5.88	No	78	10.29	2.713	0	None	No	0.00188	Param Inter 1 of 2
Sulfate (mg/L)	MW-17	7.47	n/a	10/27/2023	3.82	No	78	1.791	0.5338	15.38	Kaplan-Meier	sqrt(x)	0.00188	Param Inter 1 of 2

Within Limit

Prediction Limit
Interwell Parametric

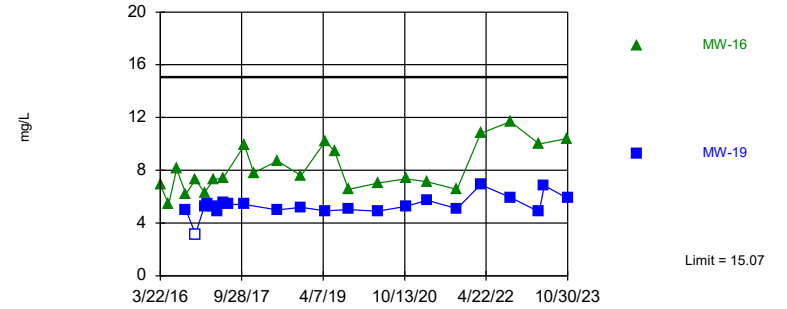


Background Data Summary (based on square root transformation): Mean=1.31, Std. Dev.=0.4517, n=63, 3.175% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9647, critical = 0.947. Kappa = 1.779 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Assumes 3 future values.

Constituent: Calcium Analysis Run 12/1/2023 1:29 PM View: Interwell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Interwell Parametric

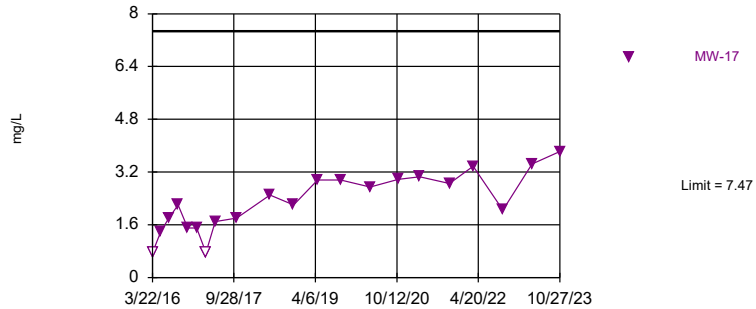


Background Data Summary: Mean=10.29, Std. Dev.=2.713, n=78. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9863, critical = 0.957. Kappa = 1.764 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Comparing 2 points to limit. Assumes 2 future values.

Constituent: Chloride Analysis Run 12/1/2023 1:29 PM View: Interwell
Plant Daniel Client: Southern Company Data: NAMU CCR

Within Limit

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=1.791, Std. Dev.=0.5338, n=78, 15.38% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9601, critical = 0.957. Kappa = 1.764 (c=7, w=4, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.00188. Assumes 3 future values.

Constituent: Sulfate Analysis Run 12/1/2023 1:29 PM View: Interwell
Plant Daniel Client: Southern Company Data: NAMU CCR

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 12/1/2023 1:30 PM View: Interwell
 Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-18 (bg)	MW-14 (bg)	MW-11 (bg)	MW-19
3/22/2016	0.93 (B1)			
3/23/2016		<5.9 (*)	<5.9 (*)	
5/18/2016	0.85	5.5	1.8	
7/12/2016	0.69	5.3	1.9	
9/12/2016	0.86	4.9	2	0.92
11/18/2016	0.41		2	0.68
11/19/2016		4.8		
1/18/2017	0.81	3.8		0.64
1/19/2017			1.8	
2/10/2017				0.58
3/21/2017	0.76			0.56
3/22/2017		3.3	1.8	
4/14/2017				0.51
5/23/2017				0.54
5/24/2017	0.8	3.6	2	
6/26/2017				0.66
10/17/2017	0.69	3.7	2	0.58
5/31/2018	0.75		1.8	0.56
6/1/2018		2.8		
11/7/2018		2.9	2	
11/8/2018	0.78			0.57
4/22/2019	0.531		1.71	0.634
4/23/2019		2.76		
9/26/2019	0.631	2.4		1.24
9/27/2019			1.99	
4/13/2020		2.74	2.03	0.687
4/14/2020	0.627			
10/21/2020				0.806
10/22/2020	0.553	2.17	2.02	
3/16/2021	0.57	2.4	1.74	2.23
10/5/2021	0.43 (J)	1.89	1.87	3.67
3/15/2022		2.59	1.87	5.84
3/16/2022	0.406 (J)			
10/4/2022		2.56	1.3	
10/5/2022	0.285 (J)			2.16
4/19/2023	0.368 (J)	2.63	1.65	
4/20/2023				15.4
5/24/2023				1.7
10/27/2023		2.28	1.42	
10/30/2023	0.427 (J)			1.19

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:30 PM View: Interwell

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-16	MW-18 (bg)	MW-14 (bg)	MW-19
11/16/2006	8.5				
2/5/2007	8.8				
4/12/2007	9.5				
10/17/2007	12.1				
4/17/2008	13.1				
10/24/2008	13.7				
4/21/2009	11.9				
10/26/2009	11				
4/12/2010	12.5				
10/30/2010	10.8				
5/25/2011	10				
5/25/2012	10.9				
5/28/2013	11.4				
5/31/2014	9.2				
5/29/2015	11.5				
3/22/2016		6.9 (B1)	11 (B1)		
3/23/2016	13			8.8 (B1)	
5/18/2016	13	5.4	8.4	7.2	
7/11/2016		8.1			
7/12/2016	13		7.9	7.5	
9/12/2016	13		7.6	8.4	5
9/13/2016		6.2			
11/17/2016		7.3			
11/18/2016	14		8.5		<6.3 (*)
11/19/2016				12	
1/18/2017		6.3	9.2	11	5.3
1/19/2017	13				
2/10/2017					5.4
3/21/2017		7.3	10		5.3
3/22/2017	15			11	
4/14/2017					4.9 (B)
5/23/2017		7.4			5.5
5/24/2017	14		10	10	
6/26/2017					5.4
10/17/2017	15	9.9	8.6	10	5.4
12/19/2017		7.8 (RS)			
5/31/2018	12	8.7	6.9		5
6/1/2018				9.9	
11/7/2018	14			10	
11/8/2018		7.6	8.7		5.2
4/22/2019	13.3	10.2	6.17		4.91
4/23/2019				9.3	
6/25/2019		9.4			
9/26/2019		6.54	6.09	8.35	5.03
9/27/2019	13.4				
4/13/2020	14.2			7.9	4.9
4/14/2020		7.03	6.15		
10/21/2020		7.36			5.25
10/22/2020	17.4		6.89	6.5	
3/16/2021	13.3	7.14	8.18	7.32	5.72
10/5/2021	12.5	6.55	5.72	6.59	5.1
3/15/2022	13.6	10.8		8.36	6.91

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 12/1/2023 1:30 PM View: Interwell
Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-16	MW-18 (bg)	MW-14 (bg)	MW-19
3/16/2022			6.05		
10/4/2022	12			11.2	
10/5/2022		11.7	4.97		5.94
4/19/2023	12.2		5.08	10.2	
4/20/2023		10			4.84
5/24/2023					6.84
10/27/2023	12.1	10.4		9.77	
10/30/2023			11.1		5.88

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 12/1/2023 1:30 PM View: Interwell

Plant Daniel Client: Southern Company Data: NAMU CCR

	MW-11 (bg)	MW-18 (bg)	MW-17	MW-14 (bg)
11/16/2006	5			
2/5/2007	<0.756			
4/12/2007	<0.756			
10/17/2007	5.7			
4/17/2008	7			
10/24/2008	6.6			
4/21/2009	5.2			
10/26/2009	8.3			
4/12/2010	6.8			
10/30/2010	10.8			
5/25/2011	11.5			
5/25/2012	8.2			
5/28/2013	6.9			
5/31/2014	3.5			
5/29/2015	3.3			
3/22/2016		3 (J)	<0.756	
3/23/2016	1.8 (J)			<0.756
5/18/2016	4.1	3.9 (J)	1.4	1.9
7/12/2016	3.8 (J)	3.9 (J)	1.8 (J)	2 (J)
9/12/2016	3.9 (J)	4.5 (J)	2.2 (J)	2 (J)
11/18/2016	5.4	4.2 (J)	1.5 (J)	
11/19/2016				1.7 (J)
1/18/2017		3.8 (J)	1.5 (J)	<0.756
1/19/2017	<0.756			
3/21/2017		<0.756 (*)	<0.756	
3/22/2017	<0.756			<0.756
5/24/2017	2 (J)	3 (J)	1.7 (J)	<0.756
10/17/2017	<0.756	3.4 (J)	1.8 (J)	<0.756
5/31/2018	3 (J)	4.1 (J)	2.5 (J)	
6/1/2018				1.8 (J)
11/7/2018	3.1 (J)			1.8 (J)
11/8/2018		3.3 (J)	2.2 (J)	
4/22/2019	2.22	4.66	2.96	
4/23/2019				1.99
9/26/2019		4.23	2.96	1.95
9/27/2019	2.36			
4/13/2020	2.47		2.75	1.43
4/14/2020		3.96		
10/22/2020	2.01	3.37	2.98	1.76
3/16/2021	2.15	3.18	3.06	2.23
10/5/2021	2.57	3.83	2.85	2.46
3/15/2022	2.88			2.1
3/16/2022		7.04	3.38	
10/4/2022	2.04			<0.756
10/5/2022		6.04	2.05	
4/19/2023	2.85	7.48		1.93
4/20/2023			3.44	
10/27/2023	2.72		3.82	1.53
10/30/2023		7.39		

FIGURE F.

Appendix III Trend Tests - Significant Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:33 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>Alpha</u>	<u>Method</u>
Calcium (mg/L)	MW-14 (bg)	-0.3374	-149	-87	Yes	21	4.762	n/a	0.01	NP
Calcium (mg/L)	MW-18 (bg)	-0.06556	-141	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	MW-19	0.127	107	92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	MW-11 (bg)	0.1671	240	191	Yes	36	0	n/a	0.01	NP
Chloride (mg/L)	MW-18 (bg)	-0.4732	-89	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	MW-11 (bg)	-0.2348	-258	-191	Yes	36	13.89	n/a	0.01	NP
Sulfate (mg/L)	MW-17	0.247	129	87	Yes	21	9.524	n/a	0.01	NP

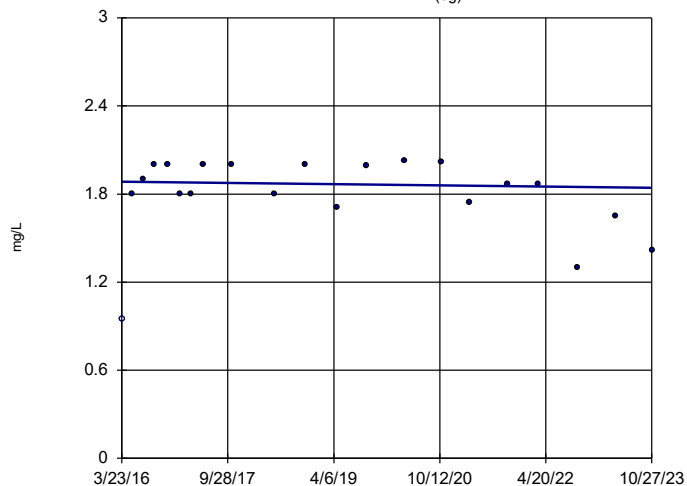
Appendix III Trend Tests - All Results

Plant Daniel Client: Southern Company Data: NAMU CCR Printed 12/1/2023, 1:33 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>Alpha</u>	<u>Method</u>
Calcium (mg/L)	MW-11 (bg)	-0.005507	-27	-87	No	21	4.762	n/a	0.01	NP
Calcium (mg/L)	MW-14 (bg)	-0.3374	-149	-87	Yes	21	4.762	n/a	0.01	NP
Calcium (mg/L)	MW-18 (bg)	-0.06556	-141	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	MW-19	0.127	107	92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	MW-11 (bg)	0.1671	240	191	Yes	36	0	n/a	0.01	NP
Chloride (mg/L)	MW-14 (bg)	-0.08571	-20	-87	No	21	0	n/a	0.01	NP
Chloride (mg/L)	MW-16	0.4398	98	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	MW-18 (bg)	-0.4732	-89	-87	Yes	21	0	n/a	0.01	NP
Chloride (mg/L)	MW-19	0.09374	55	92	No	22	4.545	n/a	0.01	NP
Sulfate (mg/L)	MW-11 (bg)	-0.2348	-258	-191	Yes	36	13.89	n/a	0.01	NP
Sulfate (mg/L)	MW-14 (bg)	0.02996	33	87	No	21	28.57	n/a	0.01	NP
Sulfate (mg/L)	MW-17	0.247	129	87	Yes	21	9.524	n/a	0.01	NP
Sulfate (mg/L)	MW-18 (bg)	0.2831	70	87	No	21	4.762	n/a	0.01	NP

Sen's Slope Estimator

MW-11 (bg)

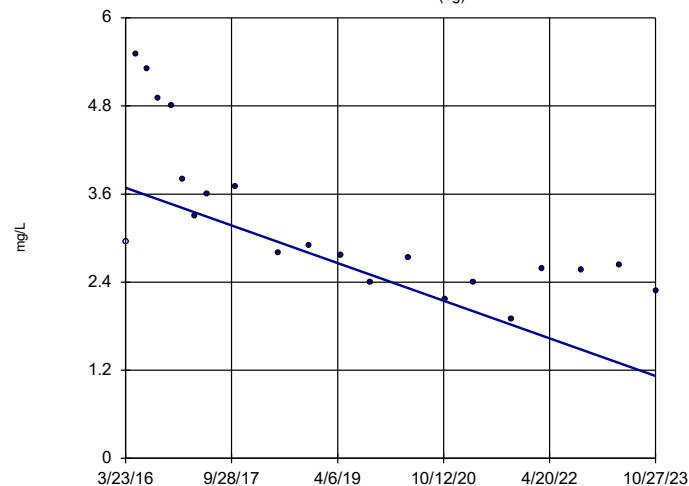


n = 21
 Slope = -0.005507
 units per year.
 Mann-Kendall
 statistic = -27
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 12/1/2023 1:32 PM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-14 (bg)

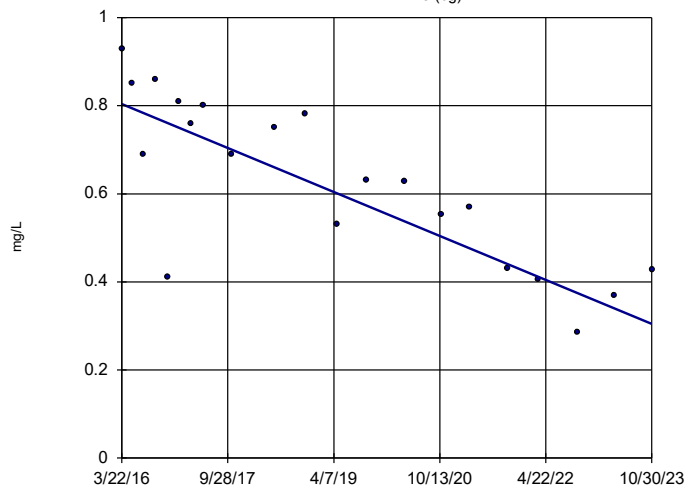


n = 21
 Slope = -0.3374
 units per year.
 Mann-Kendall
 statistic = -149
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 12/1/2023 1:32 PM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-18 (bg)

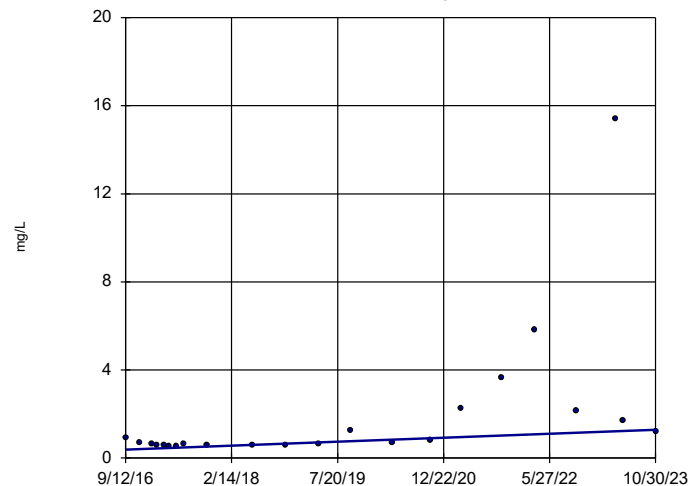


n = 21
 Slope = -0.06556
 units per year.
 Mann-Kendall
 statistic = -141
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 12/1/2023 1:32 PM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-19

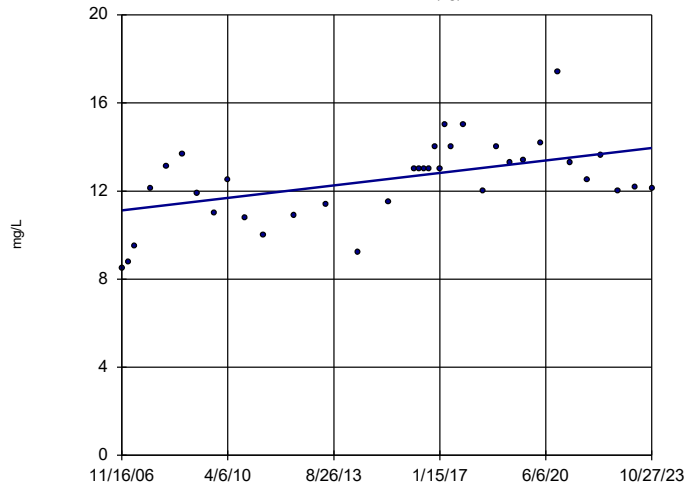


n = 22
 Slope = 0.127
 units per year.
 Mann-Kendall
 statistic = 107
 critical = 92
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 12/1/2023 1:32 PM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-11 (bg)

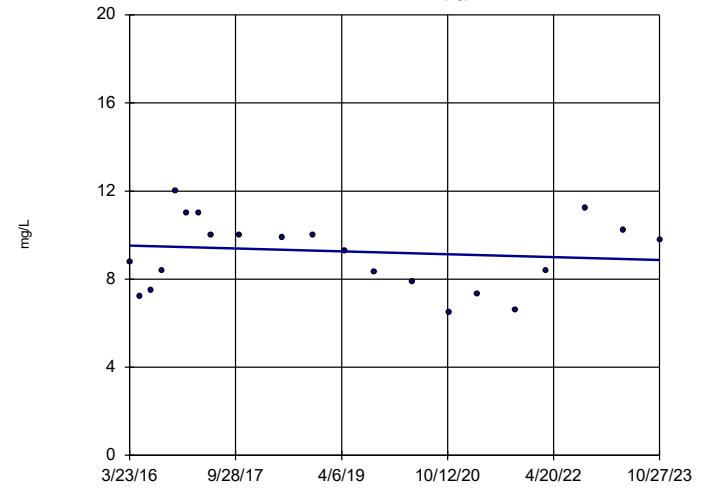


n = 36
 Slope = 0.1671
 units per year.
 Mann-Kendall
 statistic = 240
 critical = 191
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 12/1/2023 1:32 PM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-14 (bg)

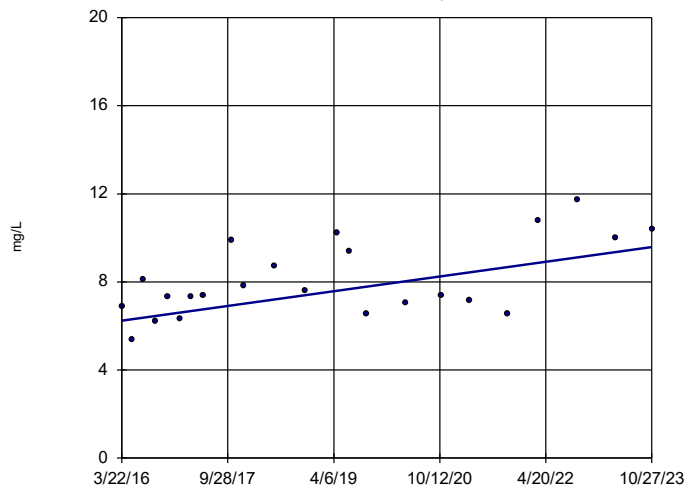


n = 21
 Slope = -0.08571
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 12/1/2023 1:32 PM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-16

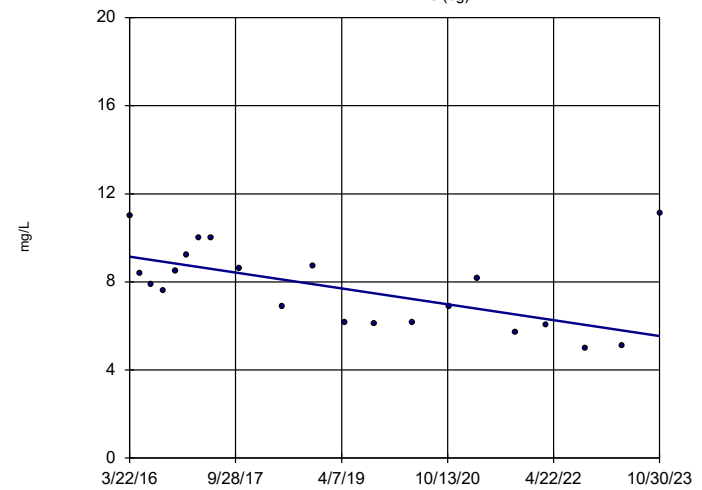


n = 23
 Slope = 0.4398
 units per year.
 Mann-Kendall
 statistic = 98
 critical = 98
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 12/1/2023 1:32 PM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-18 (bg)

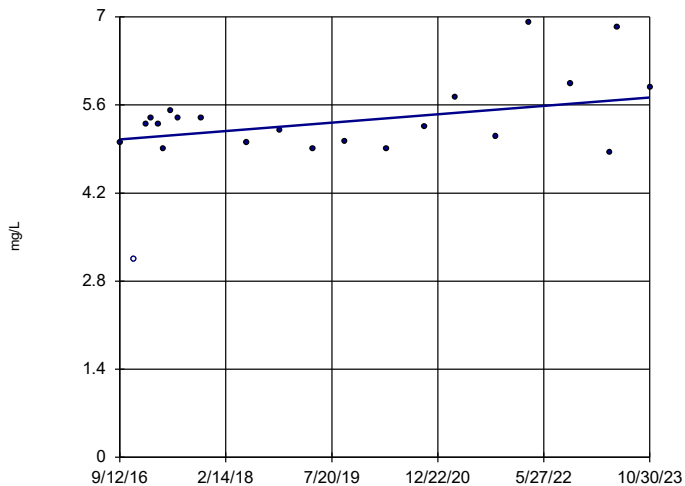


n = 21
 Slope = -0.4732
 units per year.
 Mann-Kendall
 statistic = -89
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 12/1/2023 1:33 PM View: Trend Tests
 Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-19

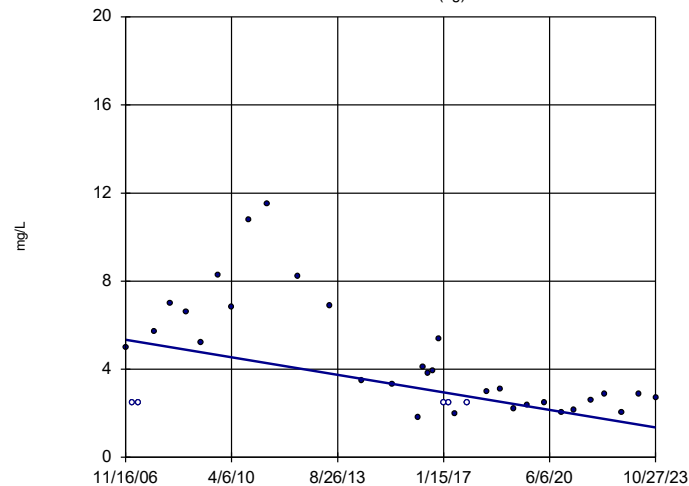


n = 22
Slope = 0.09374
units per year.
Mann-Kendall
statistic = 55
critical = 92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 12/1/2023 1:33 PM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-11 (bg)

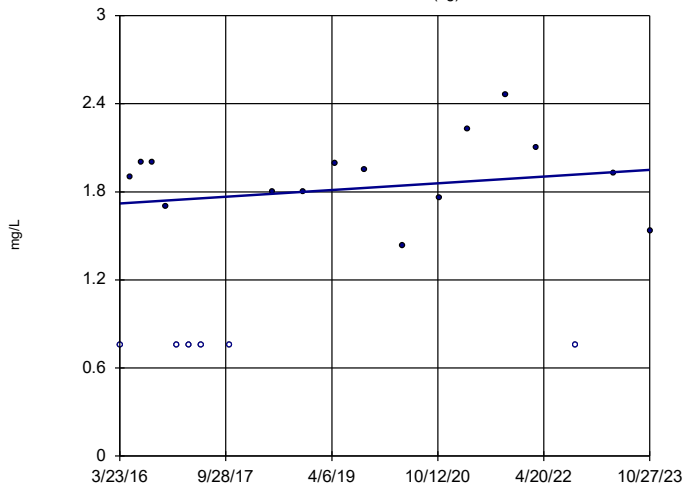


n = 36
Slope = -0.2348
units per year.
Mann-Kendall
statistic = -258
critical = -191
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 12/1/2023 1:33 PM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-14 (bg)

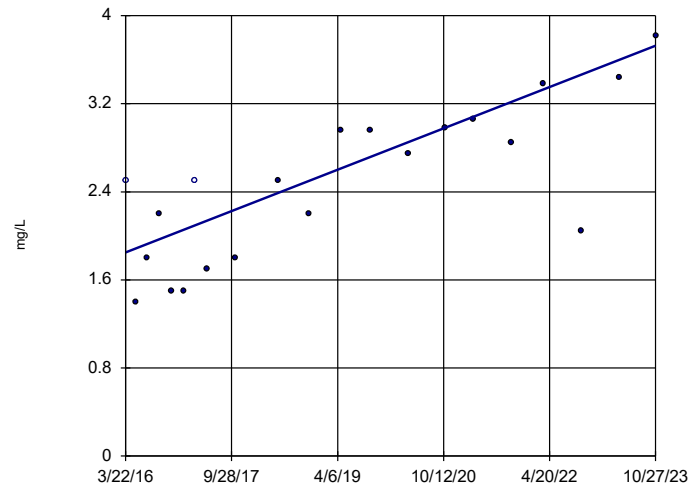


n = 21
Slope = 0.02996
units per year.
Mann-Kendall
statistic = 33
critical = 87
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 12/1/2023 1:33 PM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-17

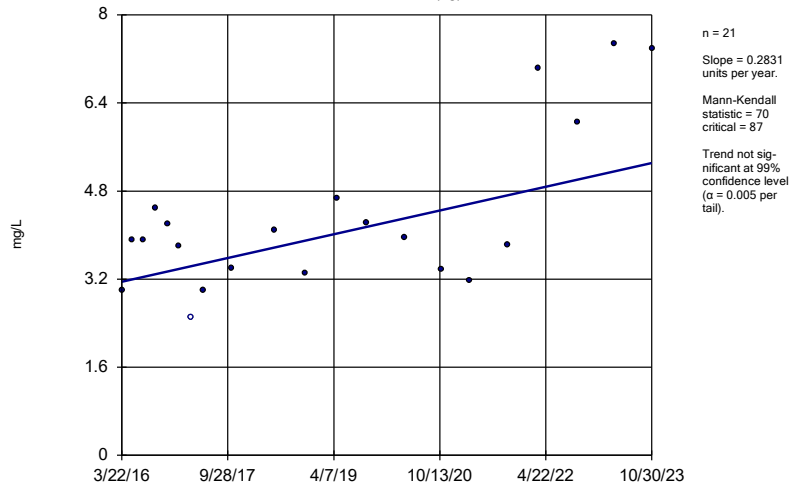


n = 21
Slope = 0.247
units per year.
Mann-Kendall
statistic = 129
critical = 87
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate Analysis Run 12/1/2023 1:33 PM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR

Sen's Slope Estimator

MW-18 (bg)



Constituent: Sulfate Analysis Run 12/1/2023 1:33 PM View: Trend Tests
Plant Daniel Client: Southern Company Data: NAMU CCR