



DOMINION ENERGY SOUTH CAROLINA

WATEREE STATION FGD POND

RICHLAND COUNTY, SOUTH CAROLINA

EPA CCR RULE COMPLIANCE

2022 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

January 31, 2023



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*TRC Environmental Corporation | Dominion Energy South Carolina
Wateree Station FGD Pond
2022 Annual Groundwater Monitoring and Corrective Action Report*

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Executive Summary

Dominion Energy South Carolina (DESC) operates a Flue Gas Desulfurization (FGD) Wastewater Pond (FDG Pond) (Unit) for the management of coal combustion residuals (CCR) at the Wateree Generating Station (Station) located in Eastover, Richland County, South Carolina. The Unit is used to manage wastewater generated from the FGD scrubber system at the Station. Management of the CCR in the Unit is performed pursuant to national criteria established in Title 40 of the Code of Federal Regulations (40 CFR), Part 257 (CCR Rule), effective April 19, 2015, and subsequent revisions to the CCR Rule. Pursuant to the CCR Rule, the Station operator is required to complete an *Annual Groundwater Monitoring and Corrective Action Report* for the Unit by January 31st, annually.

This report documents the status of the CCR groundwater monitoring program for the Unit, summarizes key actions completed, describes issues encountered, actions taken to resolve identified concerns, and planned key activities for the upcoming year.

In accordance with 40 CFR Part 257.90(e)(6), the following information is being provided as an overview of the current status of groundwater monitoring and corrective action for the Unit:

- i. At the start of the current annual reporting period, indicate whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95.*
 - At the start of 2022, the Unit was operating under the detection monitoring program in accordance with §257.94.
- ii. At the end of the current annual reporting period, indicate whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95.*
 - At the end of 2022, the Unit was operating under the detection monitoring program in accordance with §257.94.
- iii. If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III to this part pursuant to §257.94(e).*
 - a. Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase.*
 - In 2022, there were SSIs over background for the following Appendix III constituents at the following wells:
 - Calcium – MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05

- Chloride – MW-FGD-04 and MW-FGD-05
- Sulfate – MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05
- TDS – MW-FGD-05

b. *Provide the date when the assessment program was initiated for the CCR unit.*

- The Unit is in the detection monitoring program and has not initiated assessment monitoring to date.

iv. *If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in Appendix IV to this part pursuant to §257.95(g).*

a. *Identify those constituents listed in Appendix IV to this part and the names of the monitoring wells associated with such an increase.*

- The Unit is in the detection monitoring program and Appendix IV constituents were not evaluated in 2022.

b. *Provide the date when the assessment of corrective measures was initiated for the CCR unit.*

- The Unit has not entered the assessment monitoring program and therefore not applicable.

c. *Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit.*

- The Unit has not entered the assessment monitoring program and therefore not applicable.

d. *Provide the date when the assessment of corrective measures was completed for the CCR unit.*

- The Unit has not entered the assessment monitoring program and therefore not applicable.

v. *Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of the remedy selection.*

- The Unit has not entered the assessment monitoring program and therefore not applicable.

vi. *Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.*

- Remedial activities were not initiated or are not ongoing during this current annual reporting period.

Section 1

Introduction

This *2022 CCR Annual Groundwater Monitoring and Corrective Action Report* (Report) was prepared on behalf of Dominion Energy South Carolina (DESC) for the Flue Gas Desulfurization (FGD) Wastewater Pond (FGD Pond) (Unit) at the Wateree Generating Station (Station) located in Eastover, Richland County, South Carolina. The Unit is used to manage wastewater generated from the FGD scrubber system and includes two forebays (1.10 and 1.15-acres), a primary settling pond, and a secondary settling pond.

The Unit is managed in accordance with the national criteria established by the CCR Rule. DESC installed a groundwater monitoring system at the Unit that is subject to the groundwater monitoring and corrective action requirements provided under 40 CFR §257.90 through §257.98. In accordance with 40 CFR §257.90(e), DESC must prepare an annual report by January 31st that provides information regarding the groundwater monitoring and corrective action program at the Unit. This Report provides the monitoring and corrective action data and data evaluations for the semiannual CCR monitoring compliance events performed in March and September 2022.

1.1 Site Location

The Station is operated by DESC and is located at 142 Wateree Station Road in Richland County, South Carolina (**Figure 1**). The Station is located approximately 5 miles southeast of Eastover, South Carolina. The Unit is located on the western portion of the Station property approximately 800 feet from the generating plant.

1.2 Site History

The Wateree Generating Station is a coal-fired steam electric power generating facility. The facility includes two identical coal-fired generating units. Units 1 and 2, which began operation in 1970 and 1971, respectively. Each unit has a gross generating capacity of 372 megawatts. Both generating units are categorized as base load units.

The Station consists of a former coal ash storage pond (Ash Pond), a polishing pond (previously Ash Pond 2), a flue gas desulfurization pond (Unit), and a Class III Industrial Landfill (Landfill). The Unit was constructed in accordance with construction permit (No. 19263-IW) issued from the South Carolina Department of Health and Environmental Control (SCDHEC) in December 2009 and placed into operation in accordance with an approval issued by SCDHEC in April 2010. The Unit is maintained by periodic dewatering to remove particulate material and disposed of in the onsite Landfill.

The Station has three units regulated under the US EPA CCR Rule: the FGD Pond (Unit), the Ash Pond, and the Landfill. **Figure 1** illustrates the locations of these CCR units. Effluent discharge for the Unit is monitored and permitted under a National Pollutant Discharge System (NPDES) permit (Permit No. SC0002038) issued by SCDHEC.

1.3 Key Actions

Key actions for the Unit to date are as follows:

- Initiated the Detection Monitoring Program (DMP) on May 10, 2016, with the collection of eight (8) baseline/background samples and completed the background monitoring activities on July 24, 2017, pursuant to 40 CFR §257.94(b).
- Conducted the initial DMP compliance sampling event on September 19, 2017, pursuant to 40 CFR §257.94.
- Placed a copy of the FGD Pond’s Groundwater Monitoring Plan (GMP) documenting the design information for the monitoring wells pursuant to 40 CFR §257.91(e)(1) in the Station’s operating record on October 17, 2017, pursuant to 40 CFR §257.105(h)(2).
- Certified the groundwater monitoring system pursuant to 40 CFR §257.91(f) and posted the Certification in the Station’s operating record on October 17, 2017, pursuant to 40 CFR §257.105(h)(3).
- Certified the selection of a statistical method pursuant to 40 CFR §257.93(f)(6) and posted the Certification in the Station’s operating record on October 17, 2017, pursuant to 40 CFR §257.105(h)(4).
- Background concentrations of Appendix III constituents were updated using United States Environmental Protection Agency-approved statistical procedures in August 2021.
- In 2022, DESC completed a successful Alternate Source Demonstration (ASD) per 40 CFR §257.94(e)(2) in response to potential Statistically Significant Increases (SSIs) identified during the statistical evaluation of the data generated from the second semiannual (September 2021) detection monitoring event. The ASD was certified by a South Carolina-registered professional engineer. As required by 40 CFR §257.94(e)(2), a copy of the ASD is included in **Appendix A**. Based on the successful evaluation and the results presented in the ASD, DESC continued with detection monitoring in accordance with 40 CFR §257.94.
- Conducted the first semiannual 2022 detection monitoring between March 15-16, 2022 and completed the sample analysis on March 31, 2022, pursuant to 40 CFR §257.94(b).
- Conducted verification resampling for total boron on June 1, 2022 and completed the sample analysis on June 15, 2022, pursuant to 40 CFR §257.94(b).

- Completed a successful ASD per 40 CFR §257.94(e)(2) for the potential SSIs identified during the first semiannual 2022 detection monitoring event. The ASD was certified by a South Carolina-registered professional engineer. As required by 40 CFR §257.94(e)(2), a copy of the ASD is included in this Report and provided in **Appendix B**. DESC continued with detection monitoring in accordance with 40 CFR §257.94.

Conducted the second semiannual 2022 detection monitoring between September 6-9, 2022 and completed the sample analysis on September 28, 2022, pursuant to 40 CFR §257.94(b). An ASD evaluation of the data will be performed during the first quarter of 2023 per 40 CFR §257.94(e)(2).

- The Unit remained in detection monitoring for the duration of 2022.

1.4 Monitoring Program Concerns

There were no monitoring program concerns identified during 2022.

Section 2

Site Information

2.1 Monitoring Well Network

Groundwater monitoring wells (MW-FGD-01, MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05) were installed in March 2016 at the Unit to serve as the EPA CCR Compliance Monitoring Well Network. Three ASD monitoring wells (AS-FGD-01, AS-FGD-02, and AS-FGD-03) were installed in July 2017 to support an ASD evaluation. The results of the ASD, performed by others, were presented in the April 2018 *Alternate Source Demonstration Report, Wateree Station FGD Pond* and demonstrated the SSIs were not due to a release from the Unit at the Station and no further actions were warranted. Monitoring well AS-FGD-01 was included into the Compliance Monitoring Well Network while wells AS-FGD-02 and AS-FGD-03 serve to support potential ASD evaluations. Additionally, wells MW-AP-01A (background well for the Ash Pond) and MW-BG-73 (background well for the Landfill) were added to the Compliance Monitoring Well Network.

The Compliance Monitoring Well Network currently consists of four upgradient wells (AS-FGD-01, MW-AP-01A, MW-BG-73, and MW-FGD-01) to monitor background groundwater quality entering the surficial aquifer of the Unit and four downgradient monitoring wells (MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05) that serve to monitor groundwater quality downgradient of the Unit. Monitoring wells AS-FGD-02 and AS-FGD-03 are used to support ASD evaluations. The location of the EPA CCR Rule Compliance Monitoring Well Network is presented on **Figure 2**.

2.2 Monitoring Well Installation and Decommissioning Activities

DESC did not decommission any existing wells in the certified groundwater monitoring system during 2022. One (1) observation well (MW-FGD-06) was installed in December 2022 to further refine hydrogeologic conditions in the vicinity of the Unit.

2.3 Groundwater Potentiometric Surface Evaluation

Current and historical static water level data for the Station are summarized in **Table 1**. Per requirements of the CCR Rule 40 CFR 257.93(c), the rate and direction of groundwater flow within the uppermost aquifer beneath the Unit must be determined after each sampling event. Groundwater potentiometric surface maps were prepared using water level data obtained from both semiannual sampling events conducted in March and September 2022. Using the groundwater contours from March (**Figure 3**) and September (**Figure 4**), the average horizontal hydraulic gradient was calculated using the following equation:

$$i = (h^1 - h^2)/S$$

Where:

- i = horizontal hydraulic gradient (unitless)
- h^1 = water elevation in well 1 (feet)
- h^2 = water elevation in well 2 (feet)
- S = horizontal distance between well 1 and well 2 (feet)

The groundwater seepage velocity was calculated using the following formula:

$$V_s = ki/n_e$$

Where:

- V_s = Groundwater seepage velocity (feet/day)
- k = hydraulic conductivity (feet/day)
- i = horizontal hydraulic gradient (unitless)
- n_e = effective porosity (percent)

The result for each semiannual event is presented separately in Sections 2.3.1 and 2.3.2. As presented, the estimated groundwater seepage velocity in the uppermost aquifer beneath the Unit is between 156 to 169 ft/year. Furthermore, the overall interpreted data indicates that the groundwater flow direction and velocity remain consistent with previous calculations for the Unit. The groundwater monitoring network continues to monitor the uppermost aquifer in accordance with the CCR Rule.

2.3.1 First Semiannual 2022 Detection Monitoring Program

The groundwater potentiometric surface map for March 2022 is presented in **Figure 3**. Using an estimated effective porosity value of 24% and estimated average hydraulic conductivity value of 14.76 ft/day, the average rate of groundwater flow for the uppermost aquifer beneath the Unit was calculated to be 168.50 ft/year.

Well 1	Well 2	h ¹ (ft)	h ² (ft)	S (ft)	i	K (ft/day)	n_e	V_s (ft/day)	V_s (ft/yr.)
MW-FGD-01	MW-FGD-05	114.63	107.45	1,235	0.0058	14.76	0.24	0.3546	129.43
AS-FGD-01	MW-FGD-03	109.41	105.27	430	0.0096			0.5872	214.34
MW-FGD-04	AS-FGD-03	106.76	104.28	330	0.0075			0.4584	167.30
AS-FGD-01	MW-FGD-02	109.41	104.66	525	0.0090			0.5518	201.42
MW-LF-11	AS-FGD-01	113.09	109.41	630	0.0058			0.3563	130.04
1) Hydraulic conductivity and effective porosity values from February 2021: Analysis of Groundwater Flow Rate and Direction – FGD Pond Wells (Nautilus 2021).						Average		0.4617	168.50

2.3.2 Second Semiannual 2022 Detection Monitoring Program

The groundwater potentiometric surface map for September 2022 is presented in **Figure 4**. Using an estimated effective porosity value of 24% and estimated average hydraulic conductivity value of 14.76 ft/day, the average rate of groundwater flow for the uppermost aquifer beneath the Unit was calculated to be 156.31 ft/year.

Well 1	Well 2	h ¹ (ft)	h ² (ft)	S (ft)	<i>i</i>	K (ft/day)	n _e	Vs (ft/day)	Vs (ft/yr.)
MW-FGD-01	MW-FGD-05	113.86	107.22	1,235	0.0054	14.76	0.24	0.3279	119.69
AS-FGD-01	MW-FGD-03	109.10	105.21	430	0.0090			0.5518	201.39
MW-FGD-04	AS-FGD-03	106.56	104.34	330	0.0067			0.4103	149.76
AS-FGD-01	MW-FGD-02	109.10	104.64	525	0.0085			0.5181	189.12
MW-LF-11	AS-FGD-01	112.54	109.10	630	0.0055			0.3330	121.56
1) Hydraulic conductivity and effective porosity values from February 2021: Analysis of Groundwater Flow Rate and Direction – FGD Pond Wells (Nautilus 2021).							Average	0.4282	156.31

Section 3

Field Activities

CCR-related groundwater sampling activities that occurred during 2022 are summarized in the following sections.

3.1 Compliance Monitoring Program Sampling Activities

As per 40 CFR §257.94(c), two semiannual DMP events were completed for the constituents and parameters listed in Appendix III of the CCR Rule. Summaries of the 2022 DMP sampling events are presented below.

2022 Monitoring Event	Sample Dates	Final Laboratory Package Receipt Date
First Semiannual Detection Monitoring Program Event	March 15 and 16, 2022 June 1, 2022 (verification sampling for total boron)	March 31, 2022 June 15, 2022 (verification sampling for total boron)
Second Semiannual Detection Monitoring Program Event	September 6 - 9, 2022	September 22, 2022 (revised September 28, 2022)

During each of the DMP sampling events, the compliance monitoring wells were sampled in accordance with the Station's Groundwater Monitoring Program (GWMP).

Samples collected during the semiannual sampling events were submitted to GEL Laboratories (GEL) in Charleston, South Carolina under proper chain-of-custody procedures. GEL is a SCDHEC Environmental Laboratory Certification Program (ELCP) accredited laboratory for analysis of CCR Rule constituents (GEL certification #10120001).

Section 4

Laboratory Analytical Results

Laboratory analytical results from the DMP sampling events conducted in 2022 are summarized in the following sections.

4.1 First Semiannual 2022 Detection Monitoring Program Event

The groundwater samples collected during the first semiannual DMP event were analyzed by GEL for the constituents and parameters listed in Appendix III of the CCR Rule. The laboratory certificates of analysis, chain-of-custody forms, and field notes for the sampling event are presented in **Appendix C**. A summary of the CCR sampling data for the Unit is included in **Table 2**.

4.2 Second Semiannual 2022 Detection Monitoring Program Event

The groundwater sampling collected during the second semiannual sampling event were analyzed by GEL for the constituents and parameters listed in Appendix III of the CCR Rule. The laboratory certificates of analysis, chain-of-custody forms, and field notes for the sampling event are presented in **Appendix D**. A summary of the CCR sampling data for the Unit is included in **Table 3**.

Section 5

Data Quality Validation

Third-party data validation services were provided by Environmental Standards, Inc. for the DMP sampling events. The reviews were performed with guidance from the USEPA data validation guidelines and in accordance with the Station's GWMP. A discussion of the findings is presented below.

5.1 First Semiannual 2022 Compliance Event Findings

The following field QA/QC samples for this event included:

- One blind duplicate sample was collected from the MW-FGD-03 location on March 15, 2022.
- Additional sample volume was collected at MW-FGD-05 on March 15, 2022, to allow for the laboratory to conduct a matrix spike (MS) and matrix spike duplicate (MSD) quality control check.
- A field blank was collected in the area of MW-FGD-03 on March 15, 2022, using laboratory provided deionized water. The field blank was used to assess for potential contaminants from field conditions during sampling activities.

These QA/QC samples were analyzed for the same constituents as the groundwater samples. Based on review of the laboratory-provided QC data and Environmental Standards recommendations, the data for this sampling event were determined to meet the data quality objectives for the project. A copy of the data validation report is included in **Appendix C**.

5.2 Second Semiannual 2022 Compliance Event Findings

The following field QA/QC samples for this event included:

- One blind duplicate sample was collected from AS-FGD-02 location on September 7, 2022.
- Additional sample volume was collected at MW-FGD-04 on September 7, 2022, to allow for the laboratory to conduct a MS/MSD quality control check.
- A field blank was collected in the area of MW-FGD-03 on September 7, 2022, using laboratory provided deionized water. The field blank was used to assess for potential contaminants from field conditions during sampling activities.

These QA/QC samples were analyzed for the same constituents as the groundwater samples. Based on review of the laboratory-provided QC data and Environmental Standards recommendations, the data for this sampling event were determined to meet the data quality objectives for the project. A copy of the data validation report is included in **Appendix D**.

Section 6

Statistical Evaluation of Groundwater Data

Statistical evaluation of the semiannual DMP data was performed in accordance with the statistical method certified by a qualified South Carolina-registered professional engineer. The certified statistical method has been posted to the Unit's operating record. Statistical evaluations completed in 2022 are summarized in the following sections.

6.1 Site-Specific Background Evaluations

Compliance data from each semiannual event was evaluated against site-specific background values as follows.

6.1.1 First Semiannual 2022 Compliance Event

Pursuant to 40 CFR §257.94, TRC evaluated Appendix III constituent detections against site-specific background values that were established for the DMP (**Appendix E**). Based on that evaluation, the following Appendix III SSIs were identified for the first semiannual 2022 event (**Table 2**):

- Calcium (MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05)
- Chloride (MW-FGD-04 and MW-FGD-05)
- Sulfate (MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05)
- TDS (MW-FGD-05)

An ASD and certification were prepared for these SSIs and is attached as **Appendix B**.

6.1.2 Second Semiannual 2022 Compliance Event

Pursuant to 40 CFR §257.94, TRC evaluated Appendix III constituent detections against site-specific background values that were established for the DMP (**Appendix F**). Based on that evaluation, the following Appendix III SSIs were identified for the second semiannual 2022 event (**Table 3**):

- Calcium (MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05)
- Chloride (MW-FGD-05)
- Sulfate (MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05)
- TDS (MW-FGD-05)

An ASD evaluation of the data from the second semiannual 2022 compliance event will be performed during the first quarter of 2023 per 40 CFR §257.94(e)(2).

Section 7

Conclusions

7.1 Findings

The first semiannual 2022 DMP compliance sampling event was conducted on March 15 and 16, 2022, with sample analyses completed on March 31, 2022. Verification sampling for total boron was conducted on June 1, 2022, with sample analysis completed on June 15, 2022. The second semiannual 2022 DMP compliance sampling event was conducted on September 6 - 9, 2022, with sample analyses completed on September 28, 2022. These groundwater sampling and analysis activities were performed in general accordance with the requirements of the Unit's GWMP for the CCR Rule network.

Evaluation of the monitoring results from the first semiannual 2022 event identified an exceedance above the background value for calcium (MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05), chloride (MW-FGD-04 and MW-FGD-05), sulfate (MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05), and TDS (MW-FGD-05). DESC completed a successful ASD for the potential SSIs identified during the first semiannual 2022 detection monitoring event. The ASD was certified by a South Carolina-registered professional engineer and is presented in this Report. Monitoring results from the second semiannual 2022 event identified exceedances above the background value for calcium (MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05), chloride (MW-FGD-05), sulfate (MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05), and TDS (MW-FGD-05). An ASD evaluation is being conducted in accordance with the applicable CCR Rule timeframe.

7.2 Planned Activities

Based on the results from the 2022 monitoring activities, DESC intends to continue with semiannual groundwater monitoring activities in 2023 that are consistent with the provisions in the CCR Rule [Part 257.94] and prepare as ASD to address 2022 second semiannual SSIs.

Section 8

References

- Environmental Protection Agency (EPA). 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.
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- Nautilus 2016. Groundwater Sampling and Analysis Plan, Wateree Station FGD Pond. Eastover, SC: Nautilus Geologic Consulting, PLLC.
- Nautilus 2018. Alternate Source Demonstration Report, Wateree Station FGD Pond. Eastover, SC: Nautilus Geologic Consulting, PLLC.
- Nautilus 2021. Analysis of Groundwater Flow Rate and Direction: September 2020 Monitoring Data, Cope Station: Class III Landfill, Wateree Station: Class III Landfill, FGD Pond, Ash Pond, Williams Station: FGD Pond, Highway 52 Class III Landfill: Nautilus Geologic Consulting, PLLC. February 2021.

Section 9 Signature Page

This 2022 CCR Annual Groundwater Monitoring and Corrective Action Report (Report) has been prepared by a qualified groundwater scientist on behalf of Dominion Energy South Carolina (DESC) for the Wateree Generating Station FGD Pond. This Report satisfied the reporting requirements specified in Title 40 CFR §257.90(e) *et seq.* [Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule; Federal Register Vol. 80, No. 74, 21302-21501 on April 17, 2015, as amended)].

Name: Richard A. Mayer Jr., P.G.

Expiration Date: June 30, 2023

Company: TRC Environmental Corporation

Date: January 31, 2023



(SEAL)

Tables

Table 1
Summary of Historical CCR Static Water Level Data
Dominion Energy South Carolina - Wateree Station FGD Pond
Eastover, Richland County, South Carolina

Monitoring Well ID	Top of Casing Elevation (ft. AMSL)	Date	Depth to Water (feet)	Static Water Level Elevation (ft. AMSL)
MW-FGD-01	139.14	5/11/2016	21.84	117.30
		7/11/2016	23.27	115.87
		9/19/2016	23.97	115.17
		11/15/2016	24.12	115.02
		1/17/2017	22.86	116.28
		3/20/2017	23.29	115.85
		5/22/2017	22.99	116.15
		7/24/2017	23.07	116.07
		9/27/2017	24.16	114.98
		11/1/2017	24.63	114.51
		11/14/2017	24.78	114.36
		3/5/2018	24.97	114.17
		9/10/2018	25.04	114.10
		11/20/2018	23.95	115.19
		3/6/2019	21.91	117.23
		5/1/2019	22.83	116.31
		8/27/2019	24.94	114.20
		11/18/2019	25.77	113.37
		3/10/2020	21.49	117.65
		5/26/2020	23.48	115.66
9/15/2020	23.89	115.25		
10/28/2020	23.32	115.82		
3/8/2021	21.52	117.62		
9/20/2021	24.22	114.92		
3/15/2022	24.51	114.63		
9/6/2022	25.28	113.86		
MW-FGD-02	121.24	5/11/2016	9.52	111.72
		7/12/2016	17.86	103.38
		9/20/2016	15.90	105.34
		11/16/2016	16.10	105.14
		1/18/2017	16.16	105.08
		3/21/2017	16.32	104.92
		5/23/2017	16.11	105.13
		7/26/2017	16.12	105.12
		9/27/2017	16.27	104.97
		11/1/2017	16.42	104.82
		11/14/2017	16.47	104.77
		3/5/2018	16.70	104.54
		9/10/2018	16.69	104.55
		11/21/2018	16.38	104.86
		3/6/2019	16.02	105.22
		5/1/2019	16.23	105.01
		8/28/2019	16.60	104.64
		3/10/2020	15.10	106.14
		5/27/2020	16.21	105.03
		9/15/2020	16.21	105.03
10/27/2020	16.21	105.03		
3/8/2021	15.92	105.32		
9/20/2021	16.31	104.93		
3/15/2022	16.58	104.66		
9/6/2022	16.60	104.64		

Notes:

1) ft AMSL = feet above mean sea level.

Table 1
Summary of Historical CCR Static Water Level Data
Dominion Energy South Carolina - Wateree Station FGD Pond
Eastover, Richland County, South Carolina

Monitoring Well ID	Top of Casing Elevation (ft. AMSL)	Date	Depth to Water (feet)	Static Water Level Elevation (ft. AMSL)
MW-FGD-03	123.29	5/12/2016	11.31	111.98
		7/12/2016	18.30	104.99
		9/20/2016	17.31	105.98
		11/16/2016	17.52	105.77
		1/18/2017	17.52	105.77
		3/21/2017	17.64	105.65
		5/23/2017	17.42	105.87
		7/26/2017	17.48	105.81
		9/27/2017	17.68	105.61
		11/1/2017	17.85	105.44
		11/14/2017	17.90	105.39
		3/5/2018	18.09	105.20
		9/10/2018	18.08	105.21
		11/21/2018	17.81	105.48
		3/6/2019	17.40	105.89
		5/1/2019	17.43	105.86
		8/28/2019	18.07	105.22
		11/19/2019	18.23	105.06
		3/10/2020	17.39	105.90
		9/15/2020	17.54	105.75
10/27/2020	17.53	105.76		
3/8/2021	17.12	106.17		
9/20/2021	17.73	105.56		
3/15/2022	18.02	105.27		
9/6/2022	18.08	105.21		
MW-FGD-04	122.79	5/12/2016	10.25	112.54
		7/12/2016	15.31	107.48
		9/20/2016	15.25	107.54
		11/16/2016	15.51	107.28
		1/18/2017	15.28	107.51
		3/21/2017	15.43	107.36
		5/23/2017	15.11	107.68
		7/26/2017	15.28	107.51
		9/28/2017	15.69	107.10
		11/1/2017	15.90	106.89
		11/14/2017	15.95	106.84
		3/5/2018	16.08	106.71
		9/10/2018	16.03	106.76
		3/6/2019	14.99	107.80
		5/1/2019	15.10	107.69
		8/28/2019	16.10	106.69
		11/19/2019	16.55	106.24
		3/10/2020	14.85	107.94
		5/27/2020	15.50	107.29
		9/15/2020	15.46	107.33
10/28/2020	15.44	107.35		
3/8/2021	14.59	108.20		
9/20/2021	15.72	107.07		
3/15/2022	16.03	106.76		
9/6/2022	16.23	106.56		

Notes:

1) ft AMSL = feet above mean sea level.

Table 1
Summary of Historical CCR Static Water Level Data
Dominion Energy South Carolina - Wateree Station FGD Pond
Eastover, Richland County, South Carolina

Monitoring Well ID	Top of Casing Elevation (ft. AMSL)	Date	Depth to Water (feet)	Static Water Level Elevation (ft. AMSL)
MW-FGD-05	123.35	5/12/2016	10.77	112.58
		7/11/2016	15.03	108.32
		9/19/2016	15.22	108.13
		11/16/2016	15.54	107.81
		1/18/2017	15.01	108.34
		3/21/2017	15.35	108.00
		5/23/2017	14.91	108.44
		7/26/2017	15.14	108.21
		9/28/2017	15.60	107.75
		11/1/2017	15.91	107.44
		11/14/2017	15.96	107.39
		3/5/2018	15.94	107.41
		9/10/2018	15.81	107.54
		11/21/2018	15.28	108.07
		3/6/2019	14.68	108.67
		5/1/2019	14.87	108.48
		8/28/2019	16.11	107.24
		11/19/2019	16.51	106.84
		3/10/2020	14.34	109.01
		9/15/2020	15.18	108.17
3/8/2021	15.10	108.25		
9/20/2021	15.65	107.70		
3/15/2022	15.90	107.45		
9/6/2022	16.13	107.22		
AS-FGD-01	126.29	7/25/2017	15.84	110.45
		9/27/2017	16.31	109.98
		10/11/2017	16.45	109.84
		11/1/2017	16.70	109.59
		11/14/2017	16.73	109.56
		3/5/2018	16.97	109.32
		9/11/2018	16.90	109.39
		11/20/2018	16.47	109.82
		3/6/2019	15.30	110.99
		5/1/2019	15.46	110.83
		8/27/2019	16.84	109.45
		11/19/2019	17.64	108.65
		3/10/2020	15.38	110.91
		5/27/2020	15.97	110.32
		9/15/2020	16.01	110.28
		10/26/2020	15.87	110.42
		3/8/2021	14.85	111.44
9/20/2021	16.36	109.93		
3/15/2022	16.88	109.41		
9/6/2022	17.19	109.10		

Notes:

1) ft AMSL = feet above mean sea level.

Table 1
Summary of Historical CCR Static Water Level Data
Dominion Energy South Carolina - Wateree Station FGD Pond
Eastover, Richland County, South Carolina

Monitoring Well ID	Top of Casing Elevation (ft. AMSL)	Date	Depth to Water (feet)	Static Water Level Elevation (ft. AMSL)
AS-FGD-02	120.43	7/25/2017	15.78	104.65
		9/27/2017	15.91	104.52
		10/11/2017	15.97	104.46
		11/1/2017	16.04	104.39
		11/14/2017	16.05	104.38
		3/6/2018	16.31	104.12
		9/11/2018	16.25	104.18
		3/6/2019	15.80	104.63
		8/28/2019	16.15	104.28
		3/10/2020	15.78	104.65
		5/27/2020	15.96	104.47
		9/15/2020	15.81	104.62
		10/27/2020	15.86	104.57
		3/8/2021	15.60	104.83
		9/20/2021	15.90	104.53
3/15/2022	16.13	104.30		
9/6/2022	16.12	104.31		
AS-FGD-03	119.41	7/25/2017	15.83	103.58
		9/27/2017	14.99	104.42
		10/11/2017	15.04	104.37
		11/1/2017	15.12	104.29
		11/14/2017	15.16	104.25
		3/6/2018	15.39	104.02
		9/11/2018	15.25	104.16
		3/6/2019	14.79	104.62
		8/28/2019	15.21	104.20
		3/10/2020	14.68	104.73
		5/27/2020	14.87	104.54
		9/15/2020	14.81	104.60
		10/26/2020	14.86	104.55
		3/8/2021	14.59	104.82
		9/20/2021	14.98	104.43
3/15/2022	15.13	104.28		
9/6/2022	15.07	104.34		

Notes:

1) ft AMSL = feet above mean sea level.

Table 2
Summary of First Semiannual 2022 Detection Monitoring Program Sampling Event Data
Dominion Energy South Carolina - Wateree Station FGD Pond
Eastover, Richland County, South Carolina

Parameter Name	Units	Background Threshold Values	Background Wells																ASD Support Well			
			AS-FGD-01				MW-AP-01A				MW-BG-73				MW-FGD-01				AS-FGD-02			
			Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL
		Sample ID:	AS-FGD-01				MW-AP-01A				MW-BG-73				MW-FGD-01				AS-FGD-02			
		Sample Date:	3/15/2022**				03/16/2022				03/15/2022				3/15/2022**				03/15/2022			
CCR Appendix III																						
Boron	µg/L	58.5	7.08	J	4.00	15.0	10.9	J	4.00	15.0	9.18	J	5.20	15.0	7.96	J	4.00	15.0	13.1	U	13.10	15.0
Calcium	µg/L	1910	1350		30.0	100	593		30.0	100	304		80.0	200	1490		30.0	100	2320		30.0	100
Chloride	mg/L	10.8	8.47		0.0670	0.200	5.91		0.0670	0.200	2.27		0.0670	0.200	8.55		0.0670	0.200	9.19		0.0670	0.200
Fluoride	mg/L	0.1	0.0330	U	0.0330	0.100	0.0330	U	0.0330	0.100	0.0330	U	0.0330	0.100	0.0330	U	0.0330	0.100	0.0924	J	0.0330	0.100
pH	SU	3.44 - 5.43	4.57		0.01	0.01	4.56		0.01	0.01	4.56		0.1	0.1	4.46		0.01	0.01	4.41		0.01	0.01
Sulfate	mg/L	0.83	0.305	J	0.133	0.400	0.205	J	0.133	0.400	0.377	J	0.133	0.400	0.608		0.133	0.400	7.32		0.133	0.400
Total Dissolved Solids	mg/L	72.2	45.7	J	3.40	14.3	27.1		3.40	14.3	4.29	J	3.40	14.3	60.0	J	3.40	14.3	51.4		3.40	14.3
Field Parameters																						
Conductivity	µS/cm	--	57.48		0.1	0.1	42.50		0.1	0.1	23.30		0.1	0.1	56.02		0.1	0.1	76.54		0.1	0.1
Dissolved Oxygen	mg/L	--	5.59		0.01	0.01	2.54		0.01	0.01	6.13		0.01	0.01	4.14		0.01	0.01	3.89		0.01	0.01
Temperature	C	--	19.93		0.01	0.01	18.21		0.01	0.01	20.48		0.01	0.01	18.88		0.01	0.01	20.16		0.01	0.01
Turbidity	NTU	--	10.4		0.1	0.1	3.22		0.1	0.1	2.41		0.1	0.1	1.66		0.1	0.1	3.02		0.1	0.1
Depth to Water*	ft btoc	--	16.88		0.01	0.01	14.10		0.01	0.01	7.52		0.01	0.01	24.51		0.01	0.01	16.13		0.01	0.01
Groundwater Elevation*	ft msl	--	109.41		0.01	0.01	113.87		0.01	0.01	134.05		0.01	0.01	114.63		0.01	0.01	104.30		0.01	0.01
Oxidation Reduction Potential	millivolts	--	200.2		0.1	0.1	99.8		0.1	0.1	90.2		0.1	0.1	89.2		0.1	0.1	165.3		0.1	0.1

Notes:
MDL = Method Detection Limit
QL = Quantitation Limit
mg/L = Milligram per liter
µg/L = Microgram per liter
µS/cm = MicroSiemen per centimeter
SU = Standard Units
C = Degrees Celsius
NTU = Nephelometric Turbidity Unit
ft btoc = feet below top of casing
ft msl = feet above mean sea level

Qualifiers (Qual)
J = Estimated Results
U = Samples reported below their respective MDL
= Concentration greater than Background Threshold Values
Bold font = Detected constituent
* - Groundwater Elevation data collected on March 15, 2022
** - Verification resample for total boron conducted on June 1, 2022; result of verification resample data used.

Table 2
Summary of First Semiannual 2022 Detection Monitoring Program Sampling Event Data
Dominion Energy South Carolina - Wateree Station FGD Pond
Eastover, Richland County, South Carolina

Parameter Name	Units	Background Threshold Values	ASD Support Well				Downgradient Wells																			
			AS-FGD-03				MW-FGD-02				MW-FGD-03				MW-FGD-03 DUP				MW-FGD-04				MW-FGD-05			
			Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL
		Sample ID:	AS-FGD-03				MW-FGD-02				MW-FGD-03				MW-FGD-03 DUP				MW-FGD-04				MW-FGD-05			
		Sample Date:	03/15/2022				3/15/2022**				3/15/2022**				03/15/2022				3/15/2022**				3/15/2022**			
CCR Appendix III																										
Boron	µg/L	58.5	11.5	U	11.5	15.0	40.4		4.00	15.0	14.6	J	4.00	15.0	15.8	U	15.8	15.8	13.6	J	4.00	15.0	26.0		4.00	15.0
Calcium	µg/L	1910	2010		30.0	100	5900		30.0	100	7790		30.0	100	7320		30.0	100	5890		30.0	100	19200		30.0	100
Chloride	mg/L	10.8	9.08		0.0670	0.200	7.14		0.0670	0.200	7.33		0.0670	0.200	7.37		0.0670	0.200	14.3		0.134	0.400	14.2		0.134	0.400
Fluoride	mg/L	0.1	0.0330	U	0.0330	0.100	0.0644	J	0.0330	0.100	0.0628	J	0.0330	0.100	0.0330	U	0.0330	0.100	0.0752	J	0.0330	0.100	0.0731	J	0.0330	0.100
pH	SU	3.44 - 5.43	4.53		0.01	0.01	4.93		0.01	0.01	5.25		0.01	0.01	5.25		0.01	0.01	4.46		0.01	0.01	5.35		0.01	0.01
Sulfate	mg/L	0.83	2.65		0.133	0.400	8.87		0.133	0.400	12.1		0.133	0.400	12.8		0.133	0.400	4.14		0.133	0.400	21.7		0.266	0.800
Total Dissolved Solids	mg/L	72.2	37.1	J	3.40	14.3	60.0	J	3.40	14.3	61.4	J	3.40	14.3	72.9		3.40	14.3	51.4	J	3.40	14.3	126		3.40	14.3
Field Parameters																										
Conductivity	µS/cm	--	55.34		0.1	0.1	82.18		0.1	0.1	82.43		0.1	0.1	82.43		0.1	0.1	79.11		0.1	0.1	171.17		0.1	0.1
Dissolved Oxygen	mg/L	--	1.77		0.01	0.01	1.88		0.01	0.01	4.54		0.01	0.01	4.54		0.01	0.01	3.22		0.01	0.01	1.39		0.01	0.01
Temperature	C	--	20.30		0.01	0.01	20.22		0.01	0.01	21.69		0.01	0.01	21.69		0.01	0.01	20.08		0.01	0.01	20.98		0.01	0.01
Turbidity	NTU	--	1.48		0.1	0.1	2.11		0.1	0.1	4.67		0.1	0.1	4.67		0.1	0.1	1.43		0.1	0.1	1.71		0.1	0.1
Depth to Water*	ft btoc	--	15.13		0.01	0.01	16.58		0.01	0.01	18.02		0.01	0.01	18.02		0.01	0.01	16.03		0.01	0.01	15.90		0.01	0.01
Groundwater Elevation*	ft msl	--	104.28		0.01	0.01	104.66		0.01	0.01	105.27		0.01	0.01	105.27		0.01	0.01	106.76		0.01	0.01	107.45		0.01	0.01
Oxidation Reduction Potential	millivolts	--	151.9		0.1	0.1	141.6		0.1	0.1	83.2		0.1	0.1	83.2		0.1	0.1	198.6		0.1	0.1	588.8		0.1	0.1

Notes:
MDL = Method Detection Limit
QL = Quantitation Limit
mg/L = Milligram per liter
µg/L = Microgram per liter
µS/cm = MicroSiemen per centimeter
SU = Standard Units
C = Degrees Celsius
NTU = Nephelometric Turbidity Unit
ft btoc = feet below top of casing
ft msl = feet above mean sea level

Qualifiers (Qual)
J = Estimated Results
U = Samples reported below their respective MDL
= Concentration greater than Background Threshold Values
Bold font = Detected constituent
* - Groundwater Elevation data collected on March 15, 2022
** - Verification resample for total boron conducted on June 1, 2022; result of verification resample data used.

Table 3
Summary of Second Semiannual 2022 Detection Monitoring Program Sampling Event Data
Dominion Energy South Carolina - Wateree Station FGD Pond
Eastover, Richland County, South Carolina

Parameter Name	Units	Background Threshold Values	Background Wells																ASD Support Well								
			AS-FGD-01				MW-AP-01A				MW-BG-73				MW-FGD-01				AS-FGD-02				AS-FGD-02 DUP				
			Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	
			09/07/2022				09/08/2022				09/09/2022				09/07/2022				09/07/2022								
CCR Appendix III																											
Boron	µg/L	58.5	8.52	J	4.00	15.0	16.5		4.00	15.0	10.9	J	5.20	15.0	9.79	J	4.00	15.0	15.0		4.00	15.0	15.4		4.00	15.0	
Calcium	µg/L	1910	994		30.0	100	489		30.0	100	280		80.0	200	904		30.0	100	1730		30.0	100	1770		30.0	100	
Chloride	mg/L	10.8	7.32		0.0670	0.200	5.75		0.0670	0.200	2.52		0.0670	0.200	6.09		0.0670	0.200	8.17		0.0670	0.200	8.17		0.0670	0.200	
Fluoride	mg/L	0.1	0.0739	J	0.0330	0.100	0.0652	U	0.0652	0.100	0.0330	U	0.0330	0.100	0.0418	J	0.0330	0.100	0.0754	J	0.0330	0.100	0.0741	J	0.0330	0.100	
pH	SU	3.44 - 5.43	4.44		0.01	0.01	4.19		0.01	0.01	4.13		0.1	0.1	4.30		0.01	0.01	4.39		0.01	0.01	4.39		0.01	0.01	
Sulfate	mg/L	0.83	0.362	U	0.362	0.400	0.307	U	0.307	0.400	0.398	J	0.133	0.400	0.756	U	0.133	0.400	4.57		0.133	0.400	4.41		0.133	0.400	
Total Dissolved Solids	mg/L	72.2	28.0		2.38	10.0	8.00		2.38	10.0	3.40	U	3.40	14.3	8.00	J	2.38	10.0	30.0		2.38	10.0	26.0		2.38	10.0	
Field Parameters																											
Conductivity	µS/cm	--	56.29		0.1	0.1	41.49		0.1	0.1	25.09		0.1	0.1	43.90		0.1	0.1	68.60		0.1	0.1	68.60		0.1	0.1	
Dissolved Oxygen	mg/L	--	4.96		0.01	0.01	2.03		0.01	0.01	5.50		0.01	0.01	4.46		0.01	0.01	3.59		0.01	0.01	3.59		0.01	0.01	
Temperature	C	--	25.78		0.01	0.01	22.48		0.01	0.01	23.07		0.01	0.01	20.66		0.01	0.01	24.33		0.01	0.01	24.33		0.01	0.01	
Turbidity	NTU	--	3.32		0.1	0.1	2.84		0.1	0.1	0.59		0.1	0.1	0.85		0.1	0.1	3.02		0.1	0.1	3.02		0.1	0.1	
Depth to Water*	ft btoc	--	17.19		0.01	0.01	15.01		0.01	0.01	9.72		0.01	0.01	25.28		0.01	0.01	16.12		0.01	0.01	16.12		0.01	0.01	
Groundwater Elevation*	ft msl	--	109.10		0.01	0.01	112.96		0.01	0.01	131.85		0.01	0.01	113.86		0.01	0.01	104.31		0.01	0.01	104.31		0.01	0.01	
Oxidation Reduction Potential	millivolts	--	239.9		0.1	0.1	99.6		0.1	0.1	302.4		0.1	0.1	168.6		0.1	0.1	55.9		0.1	0.1	55.9		0.1	0.1	

Notes:
MDL = Method Detection Limit
QL = Quantitation Limit
mg/L = Milligram per liter
µg/L = Microgram per liter
µS/cm = MicroSiemen per centimeter
SU = Standard Units
C = Degrees Celsius
NTU = Nephelometric Turbidity Unit
ft btoc = feet below top of casing
ft msl = feet above mean sea level

Qualifiers (Qual)
J = Estimated Results
U = Samples reported below their respective MDL
= Concentration greater than Background Threshold Values
Bold font = Detected constituent
* - Groundwater Elevation data collected on September 6, 2022

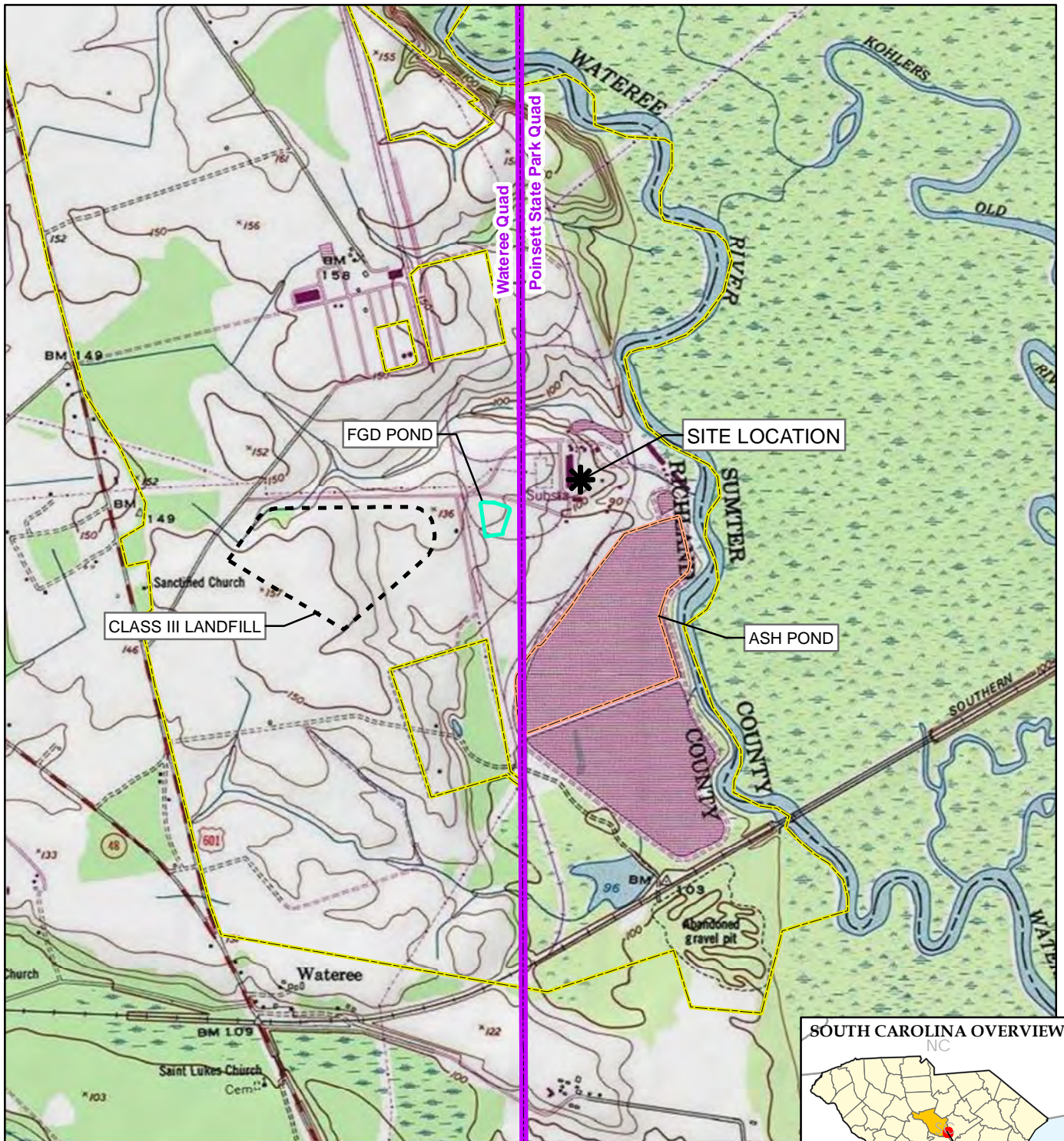
Table 3
Summary of Second Semiannual 2022 Detection Monitoring Program Sampling Event Data
Dominion Energy South Carolina - Wateree Station FGD Pond
Eastover, Richland County, South Carolina

Parameter Name	Units	Background Threshold Values	ASD Support Well				Downgradient Wells															
			AS-FGD-03				MW-FGD-02				MW-FGD-03				MW-FGD-04				MW-FGD-05			
			Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL	Result	Qual	MDL	QL
			Sample ID:				Sample Date:															
			09/07/2022				09/07/2022															
CCR Appendix III																						
Boron	µg/L	58.5	13.7	J	4.00	15.0	37.1		4.00	15.0	13.0	J	4.00	15.0	14.3	J	4.00	15.0	32.5		4.00	15.0
Calcium	µg/L	1910	1570		30.0	100	2300		30.0	100	5710		30.0	100	2170		30.0	100	10600		30.0	100
Chloride	mg/L	10.8	8.90		0.0670	0.200	7.04		0.0670	0.200	6.77		0.0670	0.200	8.27		0.0670	0.200	13.4		0.335	1.00
Fluoride	mg/L	0.1	0.0733	J	0.0330	0.100	0.0993	J	0.0330	0.100	0.0724	J	0.0330	0.100	0.0556	J	0.0330	0.100	0.0793	J	0.0330	0.100
pH	SU	3.44 - 5.43	4.30		0.01	0.01	4.51		0.01	0.01	4.81		0.01	0.01	4.04		0.01	0.01	4.93		0.01	0.01
Sulfate	mg/L	0.83	2.26		0.133	0.400	6.20		0.133	0.400	8.43		0.133	0.400	3.27		0.133	0.400	29.8		0.665	2.00
Total Dissolved Solids	mg/L	72.2	20.0		2.38	10.0	34.0		2.38	10.0	29.0		2.38	10.0	23.0		2.38	10.0	105		2.38	10.0
Field Parameters																						
Conductivity	µS/cm	--	57.66		0.1	0.1	69.52		0.1	0.1	79.44		0.1	0.1	59.27		0.1	0.1	168.18		0.1	0.1
Dissolved Oxygen	mg/L	--	1.78		0.01	0.01	1.95		0.01	0.01	4.06		0.01	0.01	3.65		0.01	0.01	2.31		0.01	0.01
Temperature	C	--	27.30		0.01	0.01	23.99		0.01	0.01	25.90		0.01	0.01	25.68		0.01	0.01	27.11		0.01	0.01
Turbidity	NTU	--	1.89		0.1	0.1	1.99		0.1	0.1	10.64		0.1	0.1	0.86		0.1	0.1	2.56		0.1	0.1
Depth to Water*	ft btoc	--	15.07		0.01	0.01	16.60		0.01	0.01	18.08		0.01	0.01	16.23		0.01	0.01	16.13		0.01	0.01
Groundwater Elevation*	ft msl	--	104.34		0.01	0.01	104.64		0.01	0.01	105.21		0.01	0.01	106.56		0.01	0.01	107.22		0.01	0.01
Oxidation Reduction Potential	millivolts	--	60.6		0.1	0.1	55.9		0.1	0.1	137.6		0.1	0.1	158.7		0.1	0.1	530.1		0.1	0.1








Notes:
MDL = Method Detection Limit
QL = Quantitation Limit
mg/L = Milligram per liter
µg/L = Microgram per liter
µS/cm = MicroSiemen per centimeter
SU = Standard Units
C = Degrees Celsius
NTU = Nephelometric Turbidity Unit
ft btoc = feet below top of casing
ft msl = feet above mean sea level

Qualifiers (Qual)
J = Estimated Results
U = Samples reported below their respective MDL
= Concentration greater than Background Threshold Values
Bold font = Detected constituent
* - Groundwater Elevation data collected on September 6, 2022

Figures



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES (WATEREE & POINSETT STATE PARK).

 <p>1" = 2,000'</p> <p>0 1,000 2,000</p> <p>1:24,000 FEET</p>	<ul style="list-style-type: none">  USGS 24k QUAD BOUNDARY  SITE LOCATION  FGD POND BOUNDARY  CLASS III LANDFILL  ASH POND  PROPERTY BOUNDARY
--	---




50 International Drive, Suite 150
Patewood Plaza Three
Greenville, SC 29615
Phone: 864.281.0030

DOMINION ENERGY SOUTH CAROLINA
WATEREE STATION
142 WATEREE STATION ROAD
EASTOVER, SOUTH CAROLINA 29044






FIGURE 1
SITE LOCATION MAP

DRAWN BY:	J. YONTS
APPROVED BY:	R. MAYER
PROJECT NO:	416559.0007.0000
FILE NO:	Figure1_Wateree_FGD_Loc_Map_CCR.mxd
DATE:	JANUARY 2023

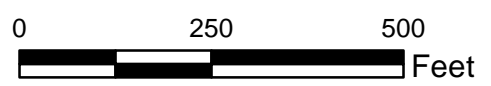
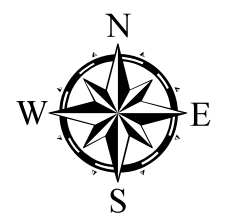
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 Coordinate System: NAD 1983 StatePlane South Carolina FIPS 3900 Feet (Foot US)
 Map Rotation: 0
 TRC - GIS




LEGEND

-  CCR Background Monitoring Well
-  CCR Downgradient Monitoring Well
-  CCR ASD Monitoring Well
-  FGD Pond Boundary
-  Class II Landfill

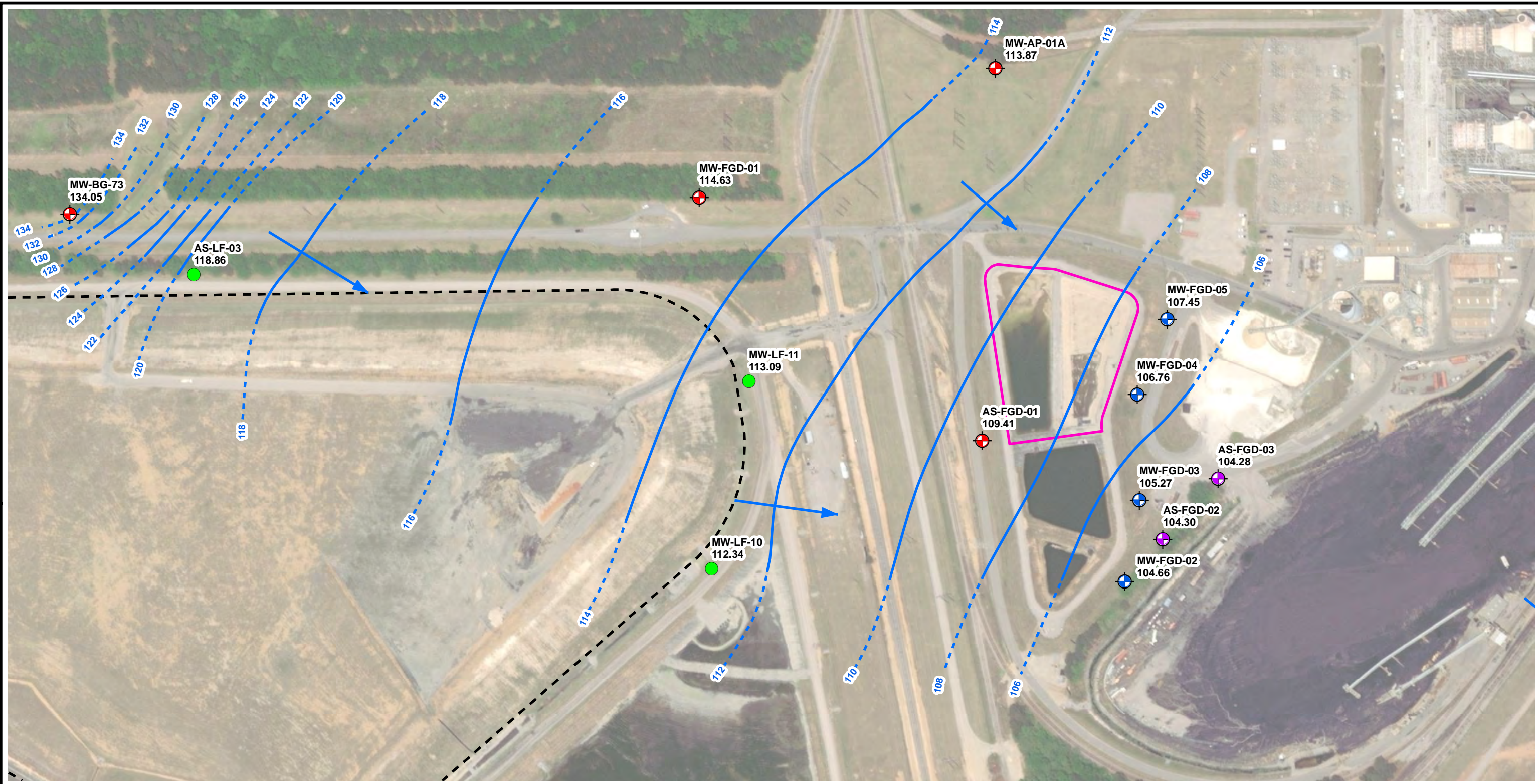
NOTE: Aerial Image from ESRI World Imagery dated April 2021.











1" = 250'
1:3,000

PROJECT:		DESC WATEREE STATION FGD POND EASTOVER, SOUTH CAROLINA
TITLE:		CCR RULE COMPLIANCE MONITORING WELL NETWORK
DRAWN BY:	J. YONTS	PROJ. NO.: 416559.0005.0000
CHECKED BY:	R. MAYER	FIGURE 2
APPROVED BY:	R. MAYER	
DATE:	DECEMBER 2022	
		50 International Drive, Suite 150 Patwood Plaza Three Greenville, SC 29615 Phone: 864.281.0030 www.TRCCompanies.com
FILE NO.:		Figure2_CCR_FGD_Well_Network.mxd

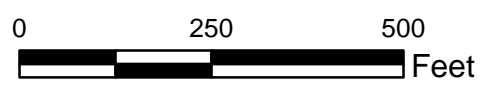
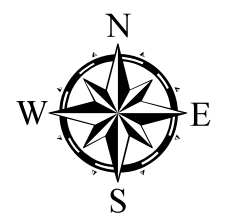
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 Map Rotation: 0
 TRC - GIS




LEGEND

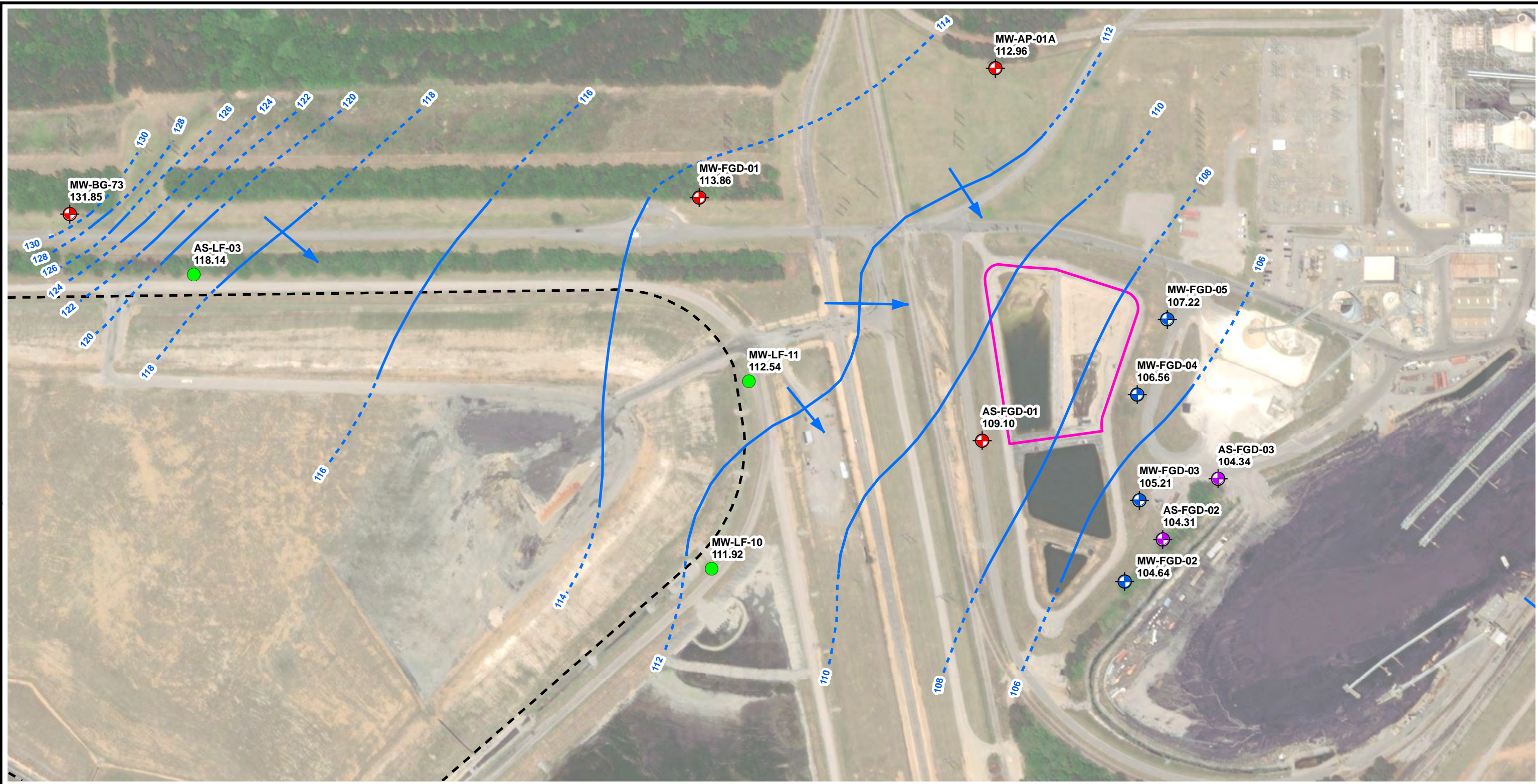
-  CCR Background Monitoring Well
-  CCR Downgradient Monitoring Well
-  CCR ASD Monitoring Well
-  Event Piezometer
-  FGD Pond Boundary
-  Class II Landfill
-  Water Table Elevation in feet above mean sea level (2' Contour Intervals) - Dashed where inferred.
-  Approximate Groundwater Flow Direction
- 113.09** Water Elevation (FT MSL)

NOTE: Aerial Image from ESRI World Imagery dated April 2021.











PROJECT:	
DESC WATEREE STATION CLASS III LANDFILL EASTOVER, SOUTH CAROLINA	
TITLE:	
GROUNDWATER POTENTIOMETRIC SURFACE MAP - MARCH 15, 2022	
DRAWN BY:	J. YONTS
CHECKED BY:	R. MAYER
APPROVED BY:	R. MAYER
DATE:	JANUARY 2023
PROJ. NO.:	416559.0005.0000
FIGURE 3	
	
50 International Drive, Suite 150 Patwood Plaza Three Greenville, SC 29615 Phone: 864.281.0030 www.TRCCompanies.com	
FILE NO.: Figure3_CCR_WT_FGD_Pond_2022_01.mxd	

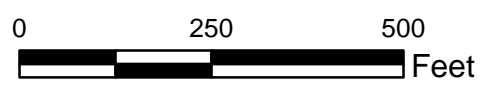
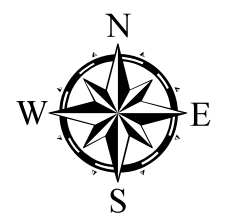
Plot Date: 12/30/2022 00:27:40 AM by RMAYER -- LAYOUT: ANSIB(11"x17")
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 Coordinate System: NAD_1983_StatePlane_SouthCarolina_FIPS_3900_Feet (Foot US)
 Map Rotation: 0
 TRC - GIS




LEGEND

-  CCR Background Monitoring Well
-  CCR Downgradient Monitoring Well
-  CCR ASD Monitoring Well
-  Event Piezometer
-  FGD Pond Boundary
-  Class II Landfill
-  Water Table Elevation in feet above mean sea level (2' Contour Intervals) - Dashed where inferred.
-  Approximate Groundwater Flow Direction
- 111.92** Water Elevation (FT MSL)

NOTE: Aerial Image from ESRI World Imagery dated April 2021.



PROJECT:	
DESC WATEREE STATION CLASS III LANDFILL EASTOVER, SOUTH CAROLINA	
TITLE:	
GROUNDWATER POTENTIOMETRIC SURFACE MAP - SEPTEMBER 6, 2022	
DRAWN BY:	J. YONTS
CHECKED BY:	R. MAYER
APPROVED BY:	R. MAYER
DATE:	DECEMBER 2022
PROJ. NO.:	416559.0005.0000
FIGURE 4	
 50 International Drive, Suite 150 Pawwood Plaza Three Greenville, SC 29615 Phone: 864.281.0030 www.TRCCompanies.com	
FILE NO.:	Figure4_CCR_WT_FGD_Pond_2022_03.mxd

Appendix A

September 2021 Alternate Source Demonstration



DOMINION ENERGY SOUTH CAROLINA

WATEREE STATION FGD POND

RICHLAND COUNTY, SOUTH CAROLINA

EPA CCR RULE COMPLIANCE

ALTERNATE SOURCE DEMONSTRATION REPORT

Second Semiannual 2021 Detection Monitoring Event

April 2022



A handwritten signature in blue ink that reads "Nakia W. Addison".

Nakia W. Addison, P.E.
Senior Engineer

A handwritten signature in blue ink that reads "Richard A. Mayer Jr.".

Richard A. Mayer Jr., P.G.
Project Hydrogeologist

*TRC Environmental Corporation | Dominion Energy South Carolina
Alternate Source Demonstration – Wateree Station FGD Pond*

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\\GREENVILLE-FP1\WPGVL\PJT2\416559\0005 WATEREE\R4165590005-012 WAT_FGD_POND_ASD REPORT_2ND SEMI ANNUAL 2021.DOCX

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Table 1	September 2021 Downgradient Results and Potential SSIs
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Executive Summary

Dominion Energy South Carolina (DESC) completed the most recent semiannual detection monitoring sampling (second semiannual 2021 sampling event) in September 2021 for the Wateree Generating Station (Station) Flue Gas Desulfurization (FGD) Wastewater Pond (FGD Pond) (Unit) pursuant to the *Criteria for Classification of Solid Waste Disposal Facilities and Practices; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule*, 40 CFR Part 257 (CCR Rule). The Unit constitutes a coal combustion residuals (CCR) Unit per the CCR Rule. Per 40 CFR §257.94, the samples were analyzed for the Appendix III detection monitoring parameters. Upon receipt of the laboratory analytical results, statistical analysis was performed and evaluated for potential statistically significant increases (SSI) above background concentrations.

The following SSIs above background concentrations were identified based on direct comparisons made between the statistically derived background threshold values (95 percent upper prediction limit) and the downgradient monitoring results:

- Calcium and sulfate (MW-FGD-02).
- Calcium and sulfate (MW-FGD-03).
- Calcium and sulfate (MW-FGD-04).
- Calcium, chloride, sulfate, and TDS (MW-FGD-05).

The information provided in this report serves as DESC's alternate source demonstration (ASD) prepared in accordance with 40 CFR §257.94(e)(2) and successfully demonstrates that the identified SSIs are not due to a release from the Unit to groundwater, but are due to the following:

- Natural variation in groundwater quality within the area.

Therefore, based on the information provided in this ASD report, DESC will continue to conduct semiannual detection monitoring for Appendix III constituents in accordance with 40 CFR §257.94 at the certified groundwater monitoring well system (Certified Monitoring Well Network) for the CCR Unit.

Section 1

Introduction

1.1 Background

Dominion Energy South Carolina (DESC) operates a Flue Gas Desulfurization (FGD) Wastewater Pond (FDG Pond) (Unit) for the management of coal combustion residuals (CCR) at the Wateree Generating Station (Station). The Unit is located at 142 Wateree Station Road in Eastover, Richland County, South Carolina as shown on **Figure 1**. The Unit is used to manage wastewater generated from the FGD scrubber system and includes two forebays (1.10 and 1.15-acres), a primary settling pond, and a secondary settling pond.

The Unit was constructed in accordance with construction permit (No. 19263-IW) issued from the South Carolina Department of Health and Environmental Control (SCDHEC) in December 2009 and placed into operation in accordance with an approval issued by SCDHEC in April 2010. Effluent discharge for the Unit is monitored and permitted under a National Pollutant Discharge System (NPDES) permit (Permit No. SC0002038) issued by SCDHEC.

The Unit incorporates a liner system comprised of and an 18-inch-thick low permeability compacted soil liner at the base overlain by a geosynthetic clay liner, HDPE geomembrane liner, fabric cushion, and protective cover (fabric formed concrete mat in forebays, soil cover in settling bays) at the surface (Garrett & Moore 2016). The forebays are maintained by periodic dewatering to remove particulate material and to inspect the concrete protective cover.

The Unit is considered an existing surface impoundment that contains CCR for disposal in accordance with the federal *Criteria for Classification of Solid Waste Disposal Facilities and Practices; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule* (CCR Rule), effective October 19, 2015, and subsequent Final Rules promulgated by the United States Environmental Protection Agency (USEPA).

1.2 Groundwater Monitoring and Statistical Analysis

In accordance with 40 CFR §257.90 through §257.94, DESC installed a groundwater monitoring system for the Unit and has collected samples from the Certified Monitoring Well Network for laboratory analysis for CCR constituents and performed statistical analysis of the collected samples. DESC installed a Certified Monitoring Well Network for the CCR Unit in accordance with 40 CFR §257.90 and §257.91. The location of the EPA CCR Rule Compliance Monitoring Well Network is presented on **Figure 2**. The

Certified Monitoring Well Network consists of 8 wells installed into the subsurface to monitor shallow groundwater as follows:

- Four wells were installed as background monitoring wells and include AS-FGD-01, MW-AP-01A, MW-BG-73, and MW-FGD-01.
- Four wells were installed as compliance monitoring wells and include MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05.

Pursuant to 40 CFR §257.91(f), DESC obtained certification by a qualified South Carolina-registered professional engineer (P.E.) stating that the Certified Monitoring Well Network has been designed and constructed to meet the requirements of 40 CFR §257.91 of the CCR Rule (Garrett & Moore 2017).

As discussed above, the Unit is currently being monitored pursuant to the CCR Rule. A groundwater sampling and analysis program including selection of statistical procedures to evaluate groundwater data was prepared per the CCR Rule (Nautilus 2016). Eight quarterly background CCR detection monitoring events were performed from May 2016 through July 2017 in accordance with 40 CFR §257.93(d) and §257.94(b). The eight quarterly detection monitoring background samples were analyzed for Appendix III to Part 257 – Constituents for Detection Monitoring and for Appendix IV to Part 257 – Constituents for Assessment Monitoring.

Following completion of quarterly background detection monitoring in July 2017, DESC implemented semiannual detection monitoring per 40 CFR §257.94(b) for the CCR Unit. The second semiannual (initial) detection monitoring event was performed in September 2017. Subsequent detection monitoring events, with associated verification sampling when appropriate, have been performed on a semiannual basis since September 2017. DESC completed the second 2021 semiannual detection monitoring event in September 2021. Per the CCR Rule, the semiannual detection monitoring event samples were analyzed for Appendix III constituents.

After completion of each semiannual detection monitoring event, the Appendix III data were statistically evaluated to identify potential statistically significant increases (SSIs) for Appendix III constituents above background levels. In accordance with 40 CFR §257.93(f)(6), DESC obtained certification by a qualified South Carolina-registered P.E. stating that the selected statistical method is appropriate for evaluating the groundwater monitoring data for the CCR Unit (SCE&G 2017).

Pursuant to 40 CFR §257.93(h), statistical analysis of the laboratory analytical data was performed to identify potential SSIs for the first semiannual 2021 detection monitoring event. Data from the second semiannual 2021 detection monitoring event is presented in **Table 1**. A total of 10 SSIs were identified for four Appendix III constituents: calcium, chloride, sulfate, and total dissolved solids (TDS).

1.3 Purpose

Pursuant to 40 CFR §257.94(e)(2), DESC may demonstrate that a source other than the CCR Unit caused the SSIs identified or that the SSIs resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The purpose of this report is to provide written documentation of the successful ASD for the SSIs identified for the second semiannual 2021 detection monitoring event, pursuant to 40 CFR §257.94(e)(2) of the CCR Rule.

1.4 Site Hydrogeology

The Station is located within the Catawba-Wateree River Subbasin (Santee River Basin watershed) of the Coastal Plain physiographic province. Aquifers and confining units in the South Carolina portion of the Coastal Plain are composed of crystalline carbonate rocks, sand, clay, silt, and gravel that contain large volumes of high-quality groundwater (SAWSC 2016). The Unit groundwater monitoring wells are within the surficial aquifer of the Black Creek geologic formation. This formation ranges from ground surface to a depth of approximately 350 feet and consists of medium to coarse-grained glauconitic and phosphatic quartz sands interbedded with lenses of lignitic and micaceous clay beds (SCDNR 2009). Groundwater flow beneath the Unit is generally to the southeast as depicted on **Figure 3**. Hydraulic conductivity values in the surficial aquifer at the Unit range from 3.57×10^{-3} cm/s to 1.51×10^{-2} cm/s with an estimated groundwater flow velocities of between 0.12 to 1.18 feet/day (Nautilus 2021a).

1.5 General Groundwater Quality

Regionally, groundwater quality within the Black Creek Aquifer may contain high fluoride values attributed to the presence of fluorapatite from abundant fossilized shark teeth in the formation (SCDHEC 2013). Groundwater is generally alkaline in composition consisting of a sodium bicarbonate water type (SCDHEC 2013). The USEPA has established National Primary Drinking Water Regulations that define a permitted maximum contaminant level (MCL) for specific constituents in drinking water. The primary MCLs are legally enforceable standards that were established to protect public health by limiting the levels of contaminants in drinking water. Additionally, the USEPA has established non-enforceable secondary MCLs for guidelines to assist public water systems in managing their drinking water for aesthetic consideration such as taste, color, and odor. Reported water quality concentrations for select primary and/or secondary drinking water contaminants compared to USEPA MCLs are provided in the table below.

Catawba-Wateree River Subbasin Groundwater Water Quality

Constituent	Concentration Range		USEPA MCL
	Low	High	
Calcium (mg/L)	8	200	None
Chloride (mg/L)	1	36	250 (Secondary)
pH	4.8	7.2	6.5 – 8.5 (Secondary)
Sulfate (mg/L)	1	118	250 (Secondary)
TDS (mg/L)	20	500	500 (Secondary)

Note: mg/L = milligram per liter

As noted in the table above, the natural range of groundwater quality within the Catawba-Wateree River Subbasin approaches the primary MCL established by the USEPA for drinking water with respect to TDS (SCDNR 2009). The natural chloride, sulfate, and pH range of groundwater quality within the Catawba-Wateree River Subbasin is generally less than the secondary drinking water MCL. A primary or secondary drinking water MCL has not been established for calcium however, the natural range of calcium in the Catawba-Wateree River Subbasin is reported to be in the range of 8 mg/L to 200 mg/L (SCDNR 2009).

Section 2

Alternate Source Demonstration

Pursuant to 40 CFR §257.94(e)(2), DESC may demonstrate that a source other than the CCR Unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. As discussed previously, the second semiannual 2021 detection monitoring event was performed in September 2021. Statistical analysis of the second semiannual 2021 detection monitoring data was performed pursuant to 40 CFR §257.93(f) and (g) and in accordance with the Statistical Methods Certification (SCE&G 2017) and the Statistical Analysis Plan (OBG 2017). Based on either increasing trends at 95% confidence levels using Thiel-Sen's trend test and/or interwell prediction limits statistical analyses, the following 10 SSIs were identified:

- Calcium and sulfate (MW-FGD-02).
- Calcium and sulfate (MW-FGD-03).
- Calcium and sulfate (MW-FGD-04).
- Calcium, chloride, sulfate, and TDS (MW-FGD-05).

All other Appendix III constituent concentrations were within their background threshold values at 95% confidence levels using Thiel-Sen's trend and/or interwell prediction limits in all the CCR Rule groundwater monitoring system wells.

A discussion for each of the individual SSIs and associated evidence demonstrating that the SSIs were not caused by a release from the Unit is provided in the subsections below.

2.1 Calcium at MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05

The calcium SSIs identified at MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05 are the result of natural variation in groundwater quality from areas upgradient from the Unit. The following evidence supports this determination:

- Calcium was detected in MW-FGD-02 (2.86 mg/L), MW-FGD-03 (7.07 mg/L), MW-FGD-04 (2.66 mg/L), and MW-FGD-05 (6.84 mg/L) during the September 2021 sampling event. These concentrations exceed the background threshold value of 1.91 mg/L. Reported regional calcium concentrations for groundwater in the Station area range between 8 mg/L to 200 mg/L (SCDNR 2009). The detected calcium concentrations for MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05 fall within the range of natural variation in area groundwater quality.

2.2 Chloride at MW-FGD-05

The chloride SSI identified at MW-FGD-05 is a result of natural variation in groundwater quality from areas upgradient from the Unit. The following evidence supports this determination:

- Chloride was detected in MW-FGD-05 at a concentration of 16.3 mg/L in the September 2021 sample. This concentration exceeds the background threshold value of 10.8 mg/L. Reported regional chloride concentrations for groundwater in the Station area range between 1 mg/L to 36 mg/L (SCDNR 2009). The detected chloride concentration of 16.3 mg/L from September 2021 falls within the range of natural variation in area groundwater quality.

2.3 Sulfate at MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05

The sulfate SSIs identified at MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05 are the result of natural variation in groundwater quality from areas upgradient from the Unit. The following evidence supports this determination:

- Sulfate was detected in MW-FGD-02 (10.9 mg/L), MW-FGD-03 (21.1 mg/L), MW-FGD-04 (3.66 mg/L), and MW-FGD-05 (18.9 mg/L) during the September 2021 sampling event. These concentrations exceed the background threshold value of 0.83 mg/L. Reported regional sulfate concentrations for groundwater in the Station area range between 1 mg/L to 118 mg/L (SCDNR 2009). The detected sulfate concentrations for MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05 fall within the range of natural variation in area groundwater quality.

2.4 TDS at MW-FGD-05

The TDS SSI identified at MW-FGD-05 is a result of natural variation in groundwater quality from areas upgradient from the Unit. The following evidence supports this determination:

- TDS was detected in MW-FGD-05 at a concentration of 77.1 mg/L in the September 2021 sample. This concentration exceeds the background threshold value of 72.2 mg/L. Reported regional TDS concentrations for groundwater in the Station area range between 20 mg/L to 500 mg/L (SCDNR 2009). The detected TDS concentration of 77.1 mg/L from September 2021 falls within the range of natural variation in area groundwater quality.

2.5 Additional Support for ASD

Several constituents are good indicators of coal ash impacts, with lithium being one of them. Total lithium was analyzed during the September 2021 event and was detected at concentrations below 2.0 micrograms per liter ($\mu\text{g/L}$) to a maximum of 3.83 $\mu\text{g/L}$ (laboratory estimated) observed in background well AS-FGD-01. Historically, lithium has been detected at concentrations below 2.0 $\mu\text{g/L}$ to a maximum of 4.2 $\mu\text{g/L}$ observed in downgradient well AS-FGD-02 in November 2017 (Nautilus 2021b). In contrast, a surface water sample collected from the Unit was analyzed for total lithium during the September 2021 event and the detected concentration was 226 $\mu\text{g/L}$. Historical total lithium

concentrations from the Unit have been between 71.1 µg/L to 345 µg/L (Nautilus 2021b). Naturally occurring concentrations of lithium in South Carolina groundwater generally exhibits a range of between less than 5 µg/L to approximately 60 µg/L (Lindsey et al., 2021). The historical levels of lithium detected are within the range of naturally occurring groundwater concentrations and one to two orders of magnitude less than what is detected from the Unit.

Another constituent which is a good indicator of coal ash impacts is boron. Total boron was analyzed during the September 2021 event and was detected at concentrations between 8.43 µg/L to a maximum of 57.1 µg/L observed in downgradient well MW-FGD-02. In contrast, a surface water sample collected from the Unit was analyzed for total boron during the September 2021 event and the detected concentration was 109,000 µg/L. Historical total boron concentrations from the Unit have been between 30,800 µg/L to 193,500 µg/L (Nautilus 2021a). Naturally occurring concentrations of boron in South Carolina groundwater generally exhibits a range of between less than 5 µg/L to approximately 150 µg/L (Lindsey et al., 2021). The historical levels of boron detected are within the range of naturally occurring groundwater concentrations and two to three orders of magnitude less than what is detected from the Unit.

The general absence of lithium and boron above naturally occurring groundwater levels within the Unit's monitoring well network suggests that a release of wastewater from the Unit has not occurred.

Section 3

Conclusions

The information provided in this report serves as the ASD prepared in accordance with 40 CFR §257.94(e)(2) of the CCR Rule and demonstrates that the SSIs determined based on statistical analysis of the second semiannual 2021 detection monitoring event performed in September of 2021 was not due to a release from the Unit to the subsurface.

Based on the information provided in this ASD report, DESC will continue to conduct semiannual detection monitoring in accordance with 40 CFR §257.94 at the Certified Monitoring Well Network for the Unit.

Section 4 Certification

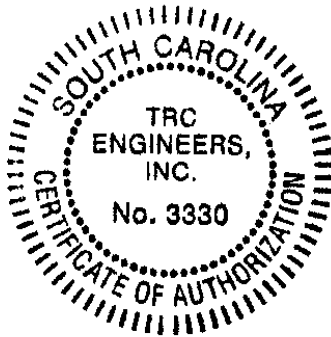
I hereby certify that the alternative source demonstration presented within this document for the DESC Wateree Station FGD Pond CCR Unit has been prepared to meet the requirements of Title 40 CFR §257.94(e)2 of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR §257.94(e) 2.

Name: Nakia W. Addison, P.E.

Expiration Date: June 30, 2024

Company: TRC Engineers, Inc.

Date: April 13, 2022



(SEAL)

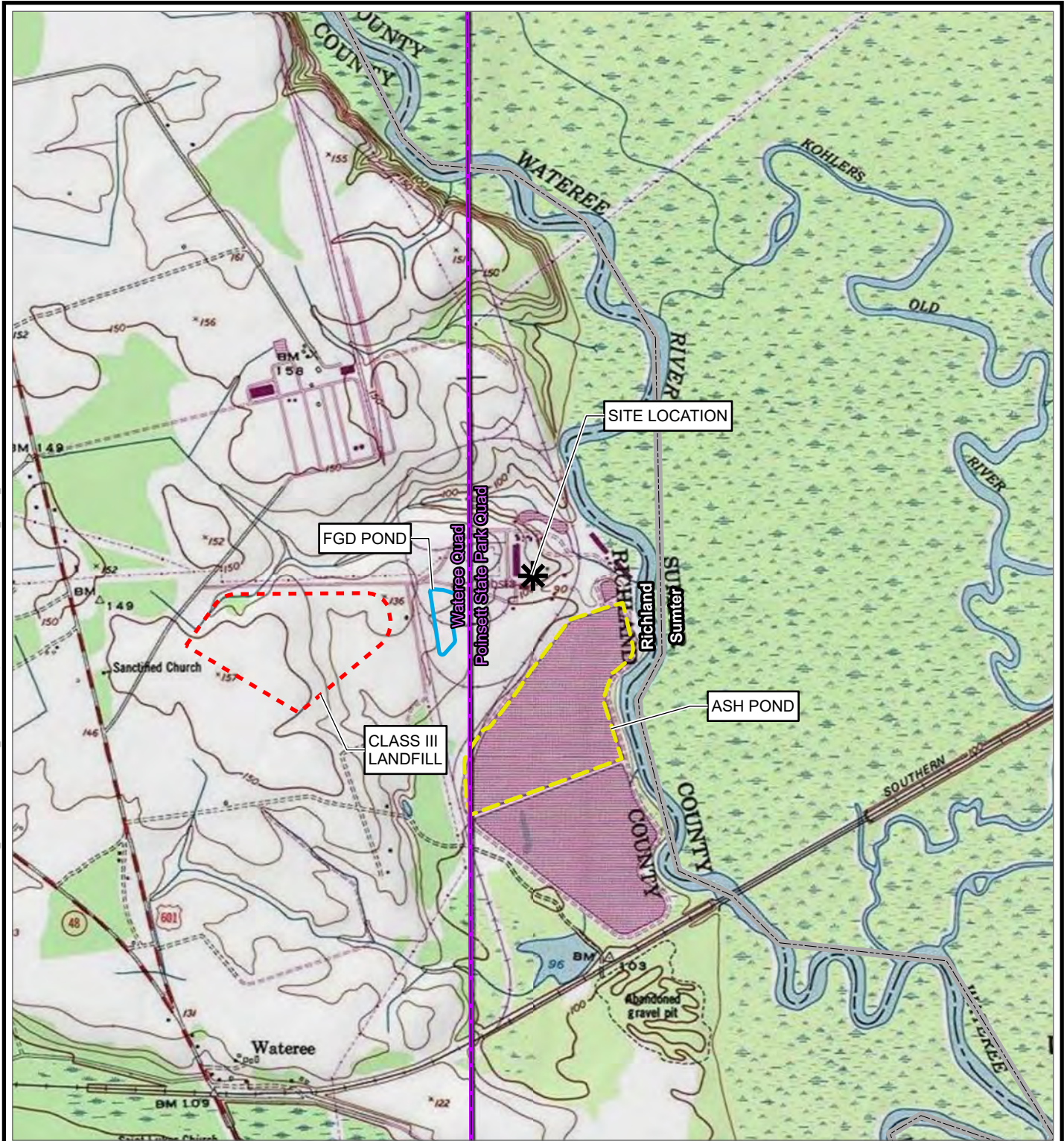
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
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Figures

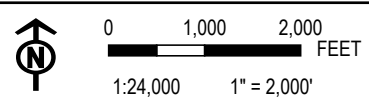
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-  SITE LOCATION
-  ASH POND BOUNDARY
-  CLASS III LANDFILL BOUNDARY
-  FGD POND
-  COUNTY BOUNDARY
-  USGS 24K QUAD BOUNDARY

PROJECT: DOMINION ENERGY SOUTH CAROLINA WATEREE STATION	
142 WATEREE STATION ROAD, EASTOVER, SC 29044	
TITLE: SITE LOCATION MAP	
DRAWN BY: R. BARBER	PROJ. NO.: 416559.0005.0000
CHECKED BY: A. HORRIE	FIGURE 1
APPROVED BY: R. MAYER	
DATE: JANUARY 2022	

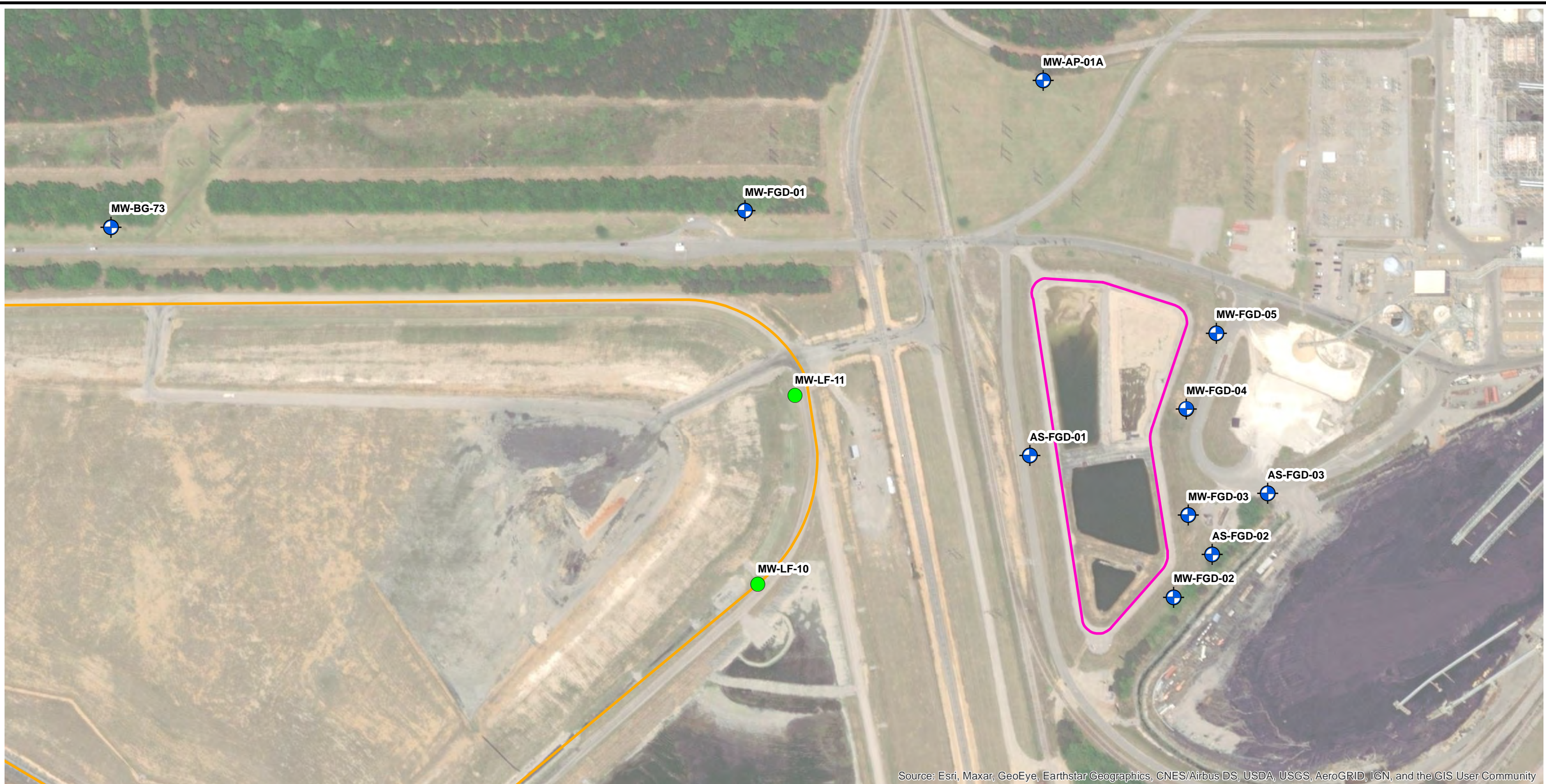
BASE MAP: USGS TOPO MAP
 DATA SOURCES: TRC, USGS 7.5' QUADRANGLES:
 POINSETT STATE PARK (1983) QUAD ID: 33080-G5, SC;
 WATEREE (1983) QUAD ID: 33080-G6, SC








708 HEARTLAND TRAIL
 SUITE 3000
 MADISON, WI 53717
 PHONE: 608.826.3600

FILE: DOMINION_VARIOUS

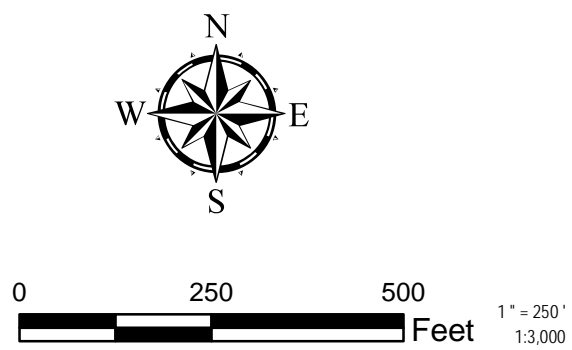
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 Coordinate System: NAD 1983 StatePlane South Carolina FIPS 3900 Feet (Foot US)
 TRC - GIS



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- LEGEND**
-  Monitoring Well
 -  Event Piezometer
 -  FGD Pond
 -  Class III Landfill

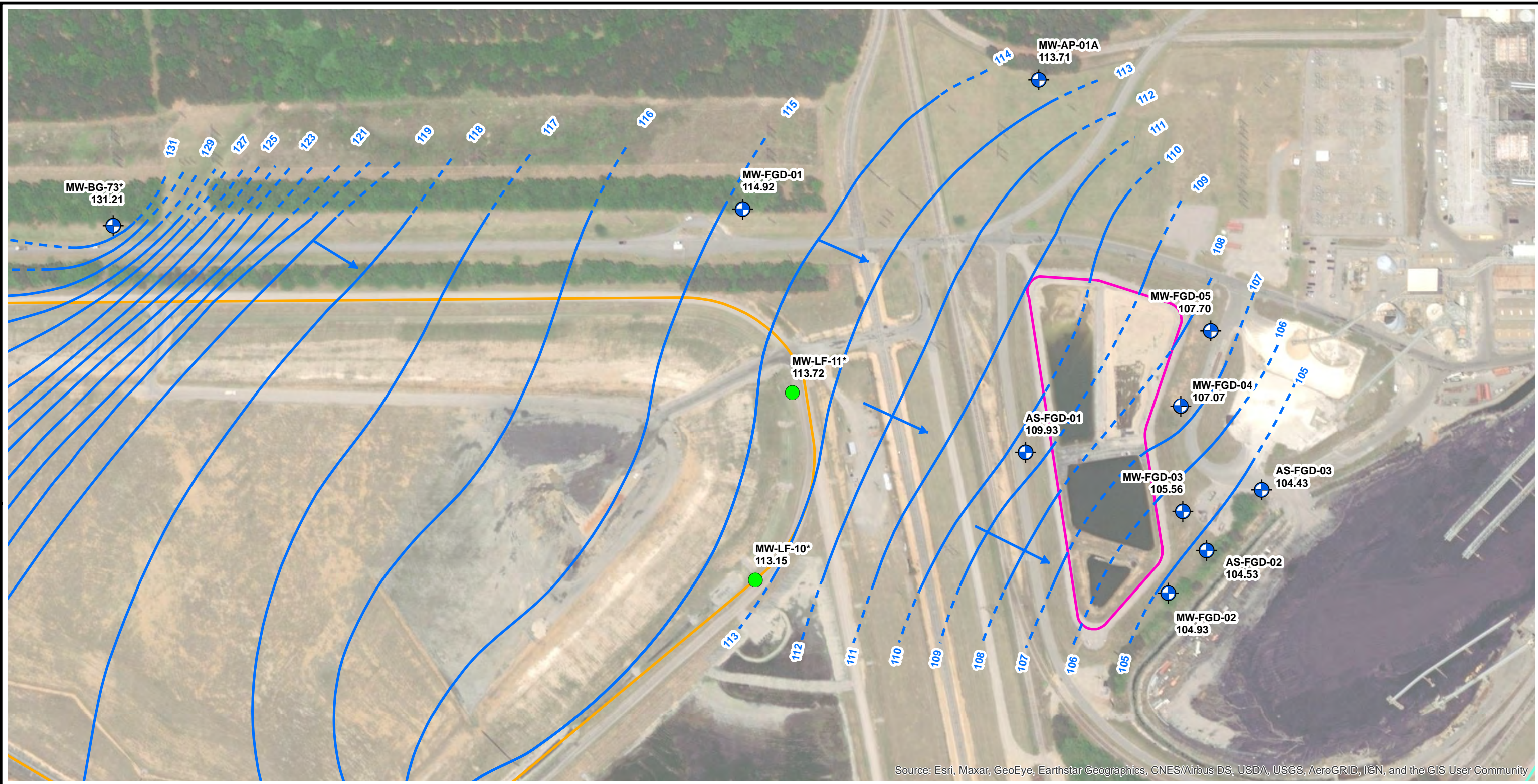
Notes:
 1 - Aerial Image from ESRI World Imagery dated April 2021.



PROJECT:		DESC WATER TREATMENT STATION FGD POND EASTOVER, SOUTH CAROLINA	
TITLE:		CCR RULE COMPLIANCE MONITORING WELL NETWORK	
DRAWN BY:	J. YONITS	PROJ. NO.:	416559.0005.0000
CHECKED BY:	D. SZYNAL	FIGURE 2	
APPROVED BY:	R. MAYER		
DATE:	APRIL 2022		
FILE NO.:		Figure2_CCR_FGD_Well_Network.mxd	










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 TRC - GIS

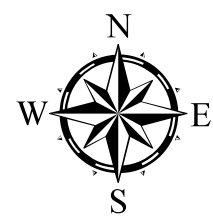



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

LEGEND

-  Monitoring Well
-  Event Piezometer
-  FGD Pond
-  Class III Landfill
-  Water Table Elevation in feet above mean sea level (1' Contour Intervals) - Dashed where inferred.
- 104.93**  Water Elevation (FT MSL)
-  Approximate Groundwater Flow Direction

Notes:
 1 - Aerial Image from ESRI World Imagery dated April 2021.
 2 - *Elevations measured on September 14, 2021.



PROJECT:	
DESC WATER TREATMENT STATION FGD POND EASTOVER, SOUTH CAROLINA	
TITLE:	
GROUNDWATER POTENTIOMETRIC SURFACE MAP SEPTEMBER 20, 2021	
DRAWN BY:	J. YONTS
CHECKED BY:	D. SZYNAL
APPROVED BY:	R. MAYER
DATE:	APRIL 2022
PROJ. NO.:	416559.0005.0000
FIGURE 3	
	
50 International Drive, Suite 150 Patwood Plaza Three Greenville, SC 29615 Phone: 864.281.0030 www.trccompanies.com	
FILE NO.: Figure4_CCR_WT_Sept2021_FGD.mxd	

Tables

Table 1
September 2021 Downgradient Results and Potential SSIs
Dominion Energy South Carolina
Wateree Station FGD Pond

WELL	CONSTITUENT / BTV / RESULT (mg/L except as noted) ^[1]						
	BORON ^[1]	CALCIUM ^[1]	CHLORIDE	FLUORIDE	pH ^[1]	SULFATE	TDS
	58.5	1,910	10.8	DQR [0.1]	3.44 - 5.43	0.83	72.2
BACKGROUND WELLS							
AS-FGD-01	8.43 J	937	8.02	< 0.100	4.54	0.424	22.9
MW-AP-01A	11.7 J	542	6.46	< 0.100	4.43	0.292 J	25.7
MW-BG-73	8.82 J	275	2.52	< 0.100	4.5	< 0.400	12.9 J
MW-FGD-01	9.00 J	1,400	9	< 0.100	4.57	0.883	37.1
DOWNGRAIDENT WELLS							
MW-FGD-02	57.1	2,860	8.48	0.0715 J	4.71	10.9	57.1
MW-FGD-03	15.3	7,070	8.43	0.0341 J	5.27	21.8	70.0
MW-FGD-04	14.7 J	2,660	8.58	0.0331 J	4.52	3.66	38.6
MW-FGD-05	20.7	6,840	16.3	0.0536 J	4.93	18.9	77.1

[1] Boron and calcium concentration expressed in µg/L; pH expressed in standard units (s.u.)

[2] DQR requires the parameter to be detected twice consecutively above the reporting limit to be an SSI

BTV Background threshold value

J Estimated value between the method detection limit and the practical quantitation limit

Appendix B

March 2022 Alternate Source Demonstration



DOMINION ENERGY SOUTH CAROLINA

WATEREE STATION FGD POND

RICHLAND COUNTY, SOUTH CAROLINA

EPA CCR RULE COMPLIANCE

ALTERNATE SOURCE DEMONSTRATION REPORT

First Semiannual 2022 Detection Monitoring Event

September 2022



A handwritten signature in blue ink, reading "Nakia W. Addison".

Nakia W. Addison, P.E.
Senior Engineer

A handwritten signature in blue ink, reading "Richard A. Mayer Jr.".

Richard A. Mayer Jr., P.G.
Project Hydrogeologist

*TRC Environmental Corporation | Dominion Energy South Carolina
Waterree Station FGD Pond
Alternate Source Demonstration*

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Figure 3	Groundwater Potentiometric Surface Map March 15, 2022

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Table 1	March 2022 Downgradient Results and Potential SSIs
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Executive Summary

Dominion Energy South Carolina (DESC) completed the most recent semiannual detection monitoring sampling (first semiannual 2022 sampling event) in March 2022 for the Wateree Generating Station (Station) Flue Gas Desulfurization (FGD) Wastewater Pond (FGD Pond) (Unit) pursuant to the *Criteria for Classification of Solid Waste Disposal Facilities and Practices; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule*, 40 CFR Part 257 (CCR Rule). The Unit constitutes a coal combustion residuals (CCR) Unit per the CCR Rule. Per 40 CFR §257.94, the samples were analyzed for the Appendix III detection monitoring parameters. Upon receipt of the laboratory analytical results, statistical analysis was performed and evaluated for potential statistically significant increases (SSI) above background concentrations.

The following SSIs above background concentrations were identified based on direct comparisons made between the statistically derived background threshold values (95 percent upper prediction limit) and the downgradient monitoring results:

- Calcium and sulfate (MW-FGD-02).
- Calcium and sulfate (MW-FGD-03).
- Calcium, chloride, and sulfate (MW-FGD-04).
- Calcium, chloride, sulfate, and TDS (MW-FGD-05).

The information provided in this report serves as DESC's alternate source demonstration (ASD) prepared in accordance with 40 CFR §257.94(e)(2) and successfully demonstrates that the identified SSIs are not due to a release from the Unit to groundwater, but are due to the following:

- Natural variation in groundwater quality within the area.

Therefore, based on the information provided in this ASD report, DESC will continue to conduct semiannual detection monitoring for Appendix III constituents in accordance with 40 CFR §257.94 at the certified groundwater monitoring well system (Certified Monitoring Well Network) for the Unit.

Section 1

Introduction

1.1 Background

Dominion Energy South Carolina (DESC) operates a Flue Gas Desulfurization (FGD) Wastewater Pond (FDG Pond) (Unit) for the management of coal combustion residuals (CCR) at the Wateree Generating Station (Station). The Unit is located at 142 Wateree Station Road in Eastover, Richland County, South Carolina as shown on **Figure 1**. The Unit is used to manage wastewater generated from the FGD scrubber system and includes two ponds (1.10 and 1.15-acres) which alternate operation based on the need for CCR removal. Both ponds discharge to a downstream pond used for volume control.

The Unit was constructed in accordance with construction permit (No. 19263-IW) issued from the South Carolina Department of Health and Environmental Control (SCDHEC) in December 2009 and placed into operation in accordance with an approval issued by SCDHEC in April 2010. Effluent discharge for the Unit is monitored and permitted under a National Pollutant Discharge System (NPDES) permit (Permit No. SC0002038) issued by SCDHEC.

The Unit incorporates a liner system comprised of and an 18-inch-thick low permeability compacted soil liner at the base overlain by a geosynthetic clay liner, high-density polyethylene (HDPE) geomembrane liner, fabric cushion, and protective cover (fabric formed concrete mat in forebays, soil cover in settling bays) at the surface (Garrett & Moore 2016). The forebays are maintained by periodic dewatering to remove particulate material and to inspect the concrete protective cover.

The Unit is considered an existing surface impoundment that contains CCR for disposal in accordance with the federal *Criteria for Classification of Solid Waste Disposal Facilities and Practices; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule* (CCR Rule), effective October 19, 2015, and subsequent Final Rules promulgated by the United States Environmental Protection Agency (USEPA).

1.2 Groundwater Monitoring and Statistical Analysis

Pursuant to 40 CFR §257.91(f), DESC obtained certification by a qualified South Carolina-registered professional engineer (P.E.) stating that the Certified Monitoring Well Network has been designed and constructed to meet the requirements of 40 CFR §257.91 of the CCR Rule (Garrett & Moore 2017). The location of the EPA CCR Rule Compliance Monitoring Well Network is presented on **Figure 2**. The Certified Monitoring Well Network consists of 8 wells installed into the subsurface to monitor shallow groundwater as follows:

- Four wells were installed as background monitoring wells and include AS-FGD-01, MW-AP-01A, MW-BG-73, and MW-FGD-01.
- Four wells were installed as compliance monitoring wells and include MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05.
- Additionally, monitoring well AS-FGD-02 was installed to support alternate source demonstration activities.

A groundwater sampling and analysis program including selection of statistical procedures to evaluate groundwater data was prepared per the CCR Rule (Nautilus 2016). Eight quarterly background CCR detection monitoring events were performed from May 2016 through July 2017 in accordance with 40 CFR §257.93(d) and §257.94(b). The eight quarterly detection monitoring background samples were analyzed for Appendix III to Part 257 – Constituents for Detection Monitoring and for Appendix IV to Part 257 – Constituents for Assessment Monitoring.

Following completion of quarterly background detection monitoring in July 2017, DESC implemented semiannual detection monitoring per 40 CFR §257.94(b) for the Unit. The second semiannual (initial) detection monitoring event was performed in September 2017. Subsequent detection monitoring events, with associated verification sampling when appropriate, have been performed on a semiannual basis since September 2017. DESC completed the first 2022 semiannual detection monitoring event in March 2022. Per the CCR Rule, the semiannual detection monitoring event samples were analyzed for Appendix III constituents.

After completion of each semiannual detection monitoring event, the Appendix III data was statistically evaluated to identify potential statistically significant increases (SSIs) for Appendix III constituents above background levels. Pursuant to 40 CFR §257.93(h), statistical analysis of the laboratory analytical data was performed to identify potential SSIs for the first semiannual 2022 detection monitoring event. Data from the first semiannual 2022 detection monitoring event is presented in **Table 1**. A total of 11 SSIs were identified for four Appendix III constituents: calcium, chloride, sulfate, and total dissolved solids (TDS).

1.3 Purpose

Pursuant to 40 CFR §257.94(e)(2), DESC may demonstrate that a source other than the Unit caused the SSIs identified or that the SSIs resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. The purpose of this report is to provide written documentation of the successful ASD for the SSIs identified for the first semiannual 2022 detection monitoring event, pursuant to 40 CFR §257.94(e)(2) of the CCR Rule.

1.4 Site Hydrogeology

The Station is located within the Catawba-Wateree River Subbasin (Santee River Basin watershed) of the Coastal Plain physiographic province. Aquifers and confining units in the South Carolina portion of the Coastal Plain are composed of crystalline carbonate rocks, sand, clay, silt, and gravel that contain large volumes of high-quality groundwater (SAWSC 2016). The Unit groundwater monitoring wells are within the surficial aquifer of the Black Creek geologic formation. This formation ranges from ground surface to a depth of approximately 350 feet and consists of medium to coarse-grained glauconitic and phosphatic quartz sands interbedded with lenses of lignitic and micaceous clay beds (SCDNR 2009). Groundwater flow beneath the Unit is generally to the southeast as depicted on **Figure 3**. Hydraulic conductivity values in the surficial aquifer at the Unit range from 3.57×10^{-3} centimeters per second (cm/s) to 1.51×10^{-2} cm/s with an estimated groundwater flow velocities of between 0.12 feet per day (ft/day) to 1.18 feet/day (Nautilus 2021a).

1.5 General Groundwater Quality

Regionally, groundwater quality within the Black Creek Aquifer may contain high fluoride values attributed to the presence of fluorapatite from abundant fossilized shark teeth in the formation (SCDHEC 2013). Groundwater is generally alkaline in composition consisting of a sodium bicarbonate water type (SCDHEC 2013). The USEPA has established National Primary Drinking Water Regulations that define a permitted maximum contaminant level (MCL) for specific constituents in drinking water. The primary MCLs are legally enforceable standards that were established to protect public health by limiting the levels of contaminants in drinking water. Additionally, the USEPA has established non-enforceable secondary MCLs for guidelines to assist public water systems in managing their drinking water for aesthetic consideration such as taste, color, and odor. Reported water quality concentrations for select primary and/or secondary drinking water contaminants compared to USEPA MCLs are provided in the table below.

Catawba-Wateree River Subbasin Groundwater Water Quality

Constituent	Concentration Range		USEPA MCL
	Low	High	
Calcium (mg/L)	8	200	None
Chloride (mg/L)	1	36	250 (Secondary)
pH (s.u)	4.8	7.2	6.5 – 8.5 (Secondary)
Sulfate (mg/L)	1	118	250 (Secondary)
TDS (mg/L)	20	500	500 (Secondary)

Note: mg/L = milligram per liter; s.u. = standard units

As noted in the table above, the natural range of groundwater quality within the Catawba-Wateree River Subbasin approaches the primary MCL established by the USEPA for drinking water with respect to TDS (SCDNR 2009). The natural chloride, sulfate, and pH range of groundwater quality within the Catawba-Wateree River Subbasin is generally less than the secondary drinking water MCL. A primary or secondary drinking water MCL has not been established for calcium however, the natural range of calcium in the Catawba-Wateree River Subbasin is reported to be in the range of 8 mg/L to 200 mg/L (SCDNR 2009).

Section 2

Alternate Source Demonstration

Pursuant to 40 CFR §257.94(e)(2), DESC may demonstrate that a source other than the Unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. As discussed previously, the first semiannual 2022 detection monitoring event was performed in March 2022. Statistical analysis of the first semiannual 2022 detection monitoring data was performed pursuant to 40 CFR §257.93(f) and (g) and in accordance with the Statistical Methods Certification (SCE&G 2017) and the Statistical Analysis Plan (OBG 2017). Based on either increasing trends at 95% confidence levels using Thiel-Sen's trend test and/or interwell prediction limits statistical analyses, the following SSIs were identified:

- Calcium and sulfate (MW-FGD-02).
- Calcium and sulfate (MW-FGD-03).
- Calcium, chloride, and sulfate (MW-FGD-04).
- Calcium, chloride, sulfate, and TDS (MW-FGD-05).

All other Appendix III constituent concentrations were within their background threshold values at 95% confidence levels using Thiel-Sen's trend and/or interwell prediction limits in all the CCR Rule groundwater monitoring system wells.

A discussion for each of the individual SSIs and associated evidence demonstrating that the SSIs were not caused by a release from the Unit is provided in the subsections below.

2.1 Calcium at MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05

The calcium SSIs identified at MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05 are the result of natural variation in groundwater quality from areas upgradient from the Unit. The following evidence supports this determination:

- Calcium was detected in MW-FGD-02 (5.90 mg/L), MW-FGD-03 (7.79 mg/L), MW-FGD-04 (5.89 mg/L), and MW-FGD-05 (19.2 mg/L) during the March 2022 sampling event. These concentrations exceed the background threshold value of 1.91 mg/L. Reported regional calcium concentrations for groundwater in the Station area range between 8 mg/L to 200 mg/L (SCDNR 2009). The detected calcium concentrations for MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05 fall within the range of natural variation in area groundwater quality.

2.2 Chloride at MW-FGD-04 and MW-FGD-05

The chloride SSIs identified at MW-FGD-04 and MW-FGD-05 are result of natural variation in groundwater quality from areas upgradient from the Unit. The following evidence supports this determination:

- Chloride was detected in MW-FGD-04 (14.3 mg/L) and MW-FGD-05 (14.2 mg/L) in the March 2022 sample above the background threshold value of 10.8 mg/L. Reported regional chloride concentrations for groundwater in the Station area range between 1 mg/L to 36 mg/L (SCDNR 2009). The detected chloride concentrations for MW-FGD-04 and MW-FGD-05 from March 2022 falls within the range of natural variation in area groundwater quality.

2.3 Sulfate at MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05

The sulfate SSIs identified at MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05 are the result of natural variation in groundwater quality from areas upgradient from the Unit. The following evidence supports this determination:

- Sulfate was detected in MW-FGD-02 (8.87 mg/L), MW-FGD-03 (12.1 mg/L), MW-FGD-04 (4.14 mg/L), and MW-FGD-05 (21.7 mg/L) during the March 2022 sampling event. These concentrations exceed the background threshold value of 0.83 mg/L. Reported regional sulfate concentrations for groundwater in the Station area range between 1 mg/L to 118 mg/L (SCDNR 2009). The detected sulfate concentrations for MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05 fall within the range of natural variation in area groundwater quality.

2.4 TDS at MW-FGD-05

The TDS SSI identified at MW-FGD-05 is a result of natural variation in groundwater quality from areas upgradient from the Unit. The following evidence supports this determination:

- TDS was detected in MW-FGD-05 at a concentration of 126 mg/L in the March 2022 sample. This concentration exceeds the background threshold value of 72.2 mg/L. Reported regional TDS concentrations for groundwater in the Station area range between 20 mg/L to 500 mg/L (SCDNR 2009). The detected TDS concentration of 126 mg/L from March 2022 falls within the range of natural variation in area groundwater quality.

2.5 Additional Support for ASD

Several constituents are good indicators of coal ash impacts, with lithium being one of them. Total lithium was analyzed during the March 2022 event and was detected at concentrations below 2.0 micrograms per liter ($\mu\text{g/L}$) to a maximum of 4.61 $\mu\text{g/L}$ (laboratory estimated) observed in background well AS-FGD-01. Historically, lithium has been detected at concentrations below 2.0 $\mu\text{g/L}$ to a maximum of 4.2 $\mu\text{g/L}$ observed in downgradient well AS-FGD-02 in November 2017 (Nautilus 2021b).

In contrast, a surface water sample collected from the Unit was analyzed for total lithium during the

TRC Environmental Corporation | Dominion Energy South Carolina

Wateree Station FGD Pond

Alternate Source Demonstration

March 2022 event and the detected concentration was 123 µg/L. Historical total lithium concentrations from the Unit have been between 71.1 µg/L to 345 µg/L (Nautilus 2021b). Naturally occurring concentrations of lithium in South Carolina groundwater generally exhibits a range of between less than 5 µg/L to approximately 60 µg/L (Lindsey et al., 2021). The historical levels of lithium detected are within the range of naturally occurring groundwater concentrations and one to two orders of magnitude less than what is detected from the Unit.

Another constituent which is a good indicator of coal ash impacts is boron. Total boron was analyzed during the March 2022 event and was detected at concentrations between 7.08 µg/L (laboratory estimated) to a maximum of 40.4 µg/L observed in downgradient well MW-FGD-02. In contrast, a surface water sample collected from the Unit was analyzed for total boron during the March 2022 event and the detected concentration was 59,700 µg/L. Historical total boron concentrations from the Unit have been between 30,800 µg/L to 193,500 µg/L (Nautilus 2021a). Naturally occurring concentrations of boron in South Carolina groundwater generally exhibits a range of between less than 5 µg/L to approximately 150 µg/L (Lindsey et al., 2021). The historical levels of boron detected are within the range of naturally occurring groundwater concentrations and two to three orders of magnitude less than what is detected from the Unit.

The general absence of lithium and boron above naturally occurring groundwater levels within the Unit's monitoring well network suggests that a release of wastewater from the Unit has not occurred.

Section 3

Conclusions

The information provided in this report serves as the ASD prepared in accordance with 40 CFR §257.94(e)(2) of the CCR Rule and demonstrates that the SSIs determined based on statistical analysis of the first semiannual 2022 detection monitoring event performed in March of 2022 was not due to a release from the Unit to the subsurface.

Based on the information provided in this ASD report, DESC will continue to conduct semiannual detection monitoring in accordance with 40 CFR §257.94 at the Certified Monitoring Well Network for the Unit.

Section 4 Certification

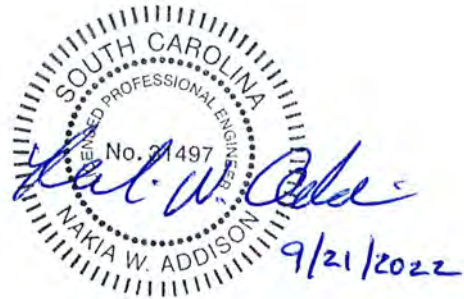
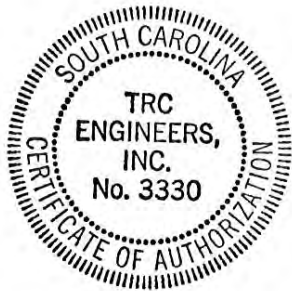
I hereby certify that the alternative source demonstration presented within this document for the DESC Wateree Station FGD Pond CCR Unit has been prepared to meet the requirements of Title 40 CFR §257.94(e)2 of the Federal CCR Rule. This document is accurate and has been prepared in accordance with good engineering practices, including the consideration of applicable industry standards, and with the requirements of Title 40 CFR §257.94(e) 2.

Name: Nakia W. Addison, P.E.

Expiration Date: June 30, 2024

Company: TRC Engineers, Inc.

Date: September 21, 2022



(SEAL)

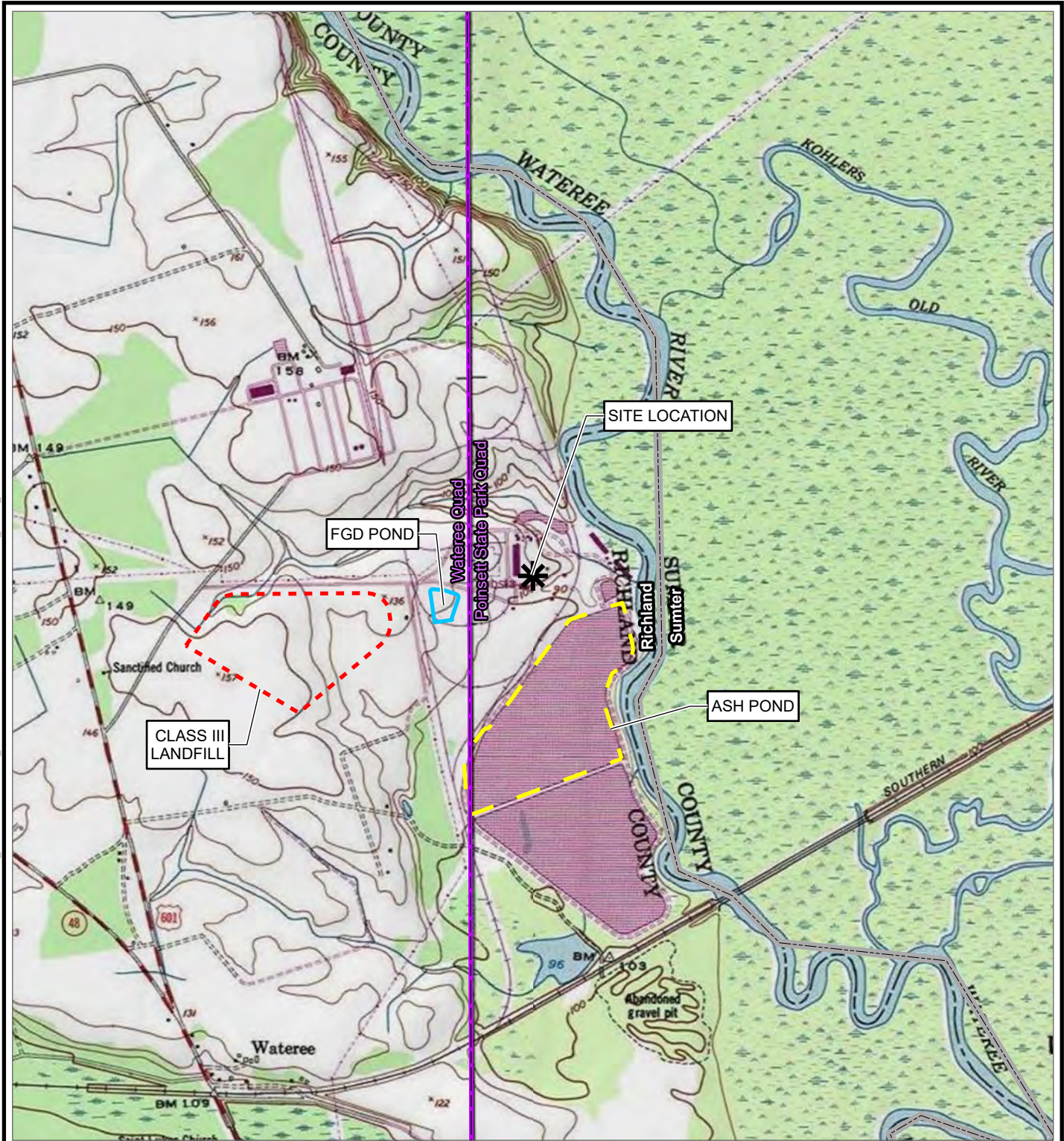
Section 5







References

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Figures

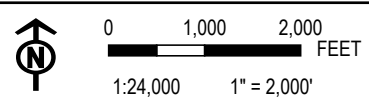
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-  SITE LOCATION
-  ASH POND BOUNDARY
-  CLASS III LANDFILL BOUNDARY
-  FGD POND BOUNDARY
-  COUNTY BOUNDARY
-  USGS 24K QUAD BOUNDARY

PROJECT: DOMINION ENERGY SOUTH CAROLINA WATEREE STATION	
142 WATEREE STATION ROAD, EASTOVER, SC 29044	
TITLE: SITE LOCATION MAP	
DRAWN BY: R. BARBER	PROJ. NO.: 416559.0005.0000
CHECKED BY: A. HORRIE	FIGURE 1
APPROVED BY: R. MAYER	
DATE: AUGUST 2022	

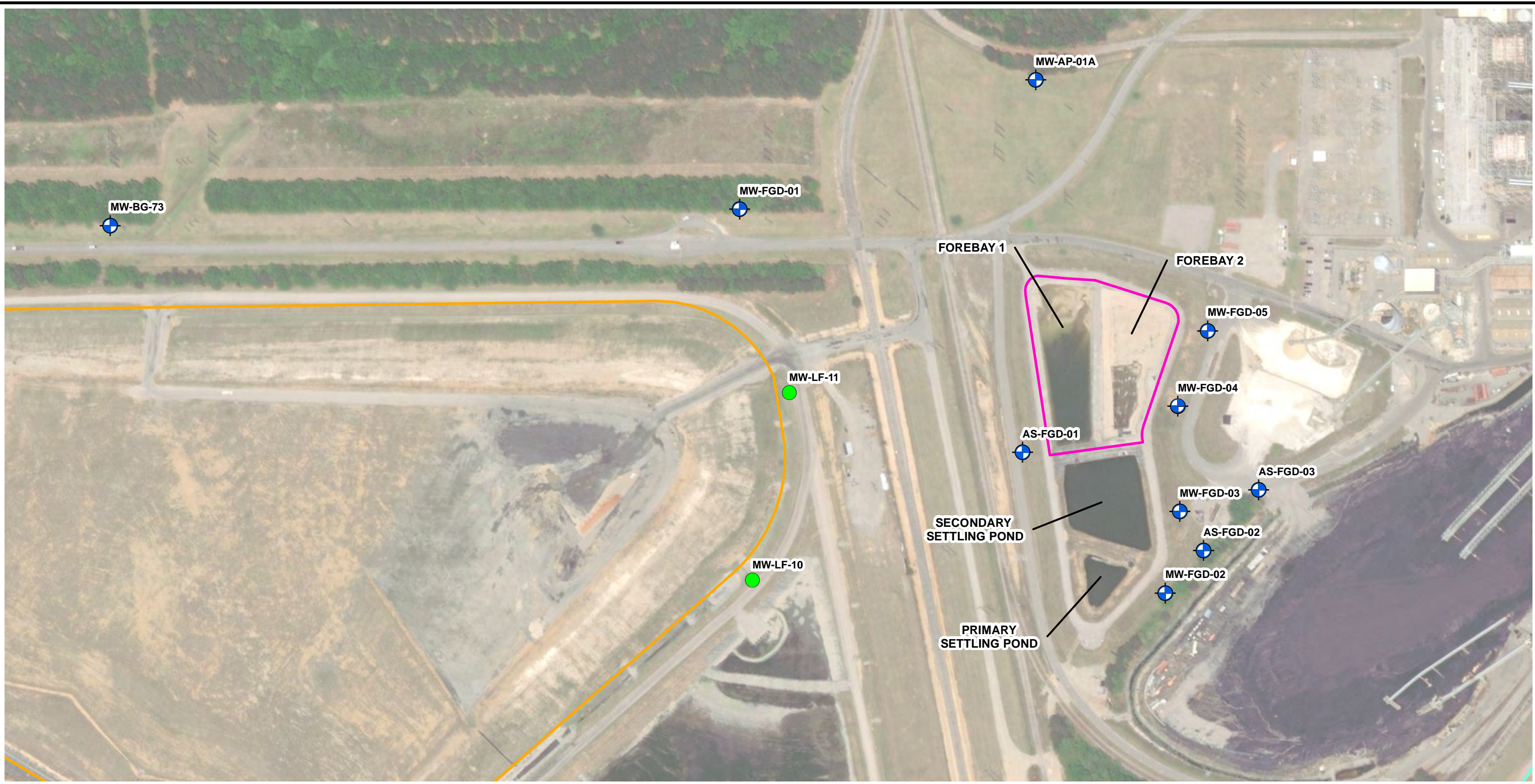
BASE MAP: USGS TOPO MAP
 DATA SOURCES: TRC, USGS 7.5' QUADRANGLES:
 POINSETT STATE PARK (1983) QUAD ID: 33080-G5, SC;
 WATEREE (1983) QUAD ID: 33080-G6, SC







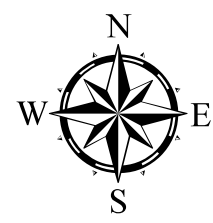

708 HEARTLAND TRAIL
 SUITE 3000
 MADISON, WI 53717
 PHONE: 608.826.3600

FILE: DOMINION_VARIOUS


Plot Date: 9/23/2022 10:58:33 AM by JYONTS -- LAYOUT: ANSIB(11"x17")
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 Coordinate System: NAD 1983 StatePlane South Carolina FIPS 3900 Feet (Foot US)
 TRC - GIS



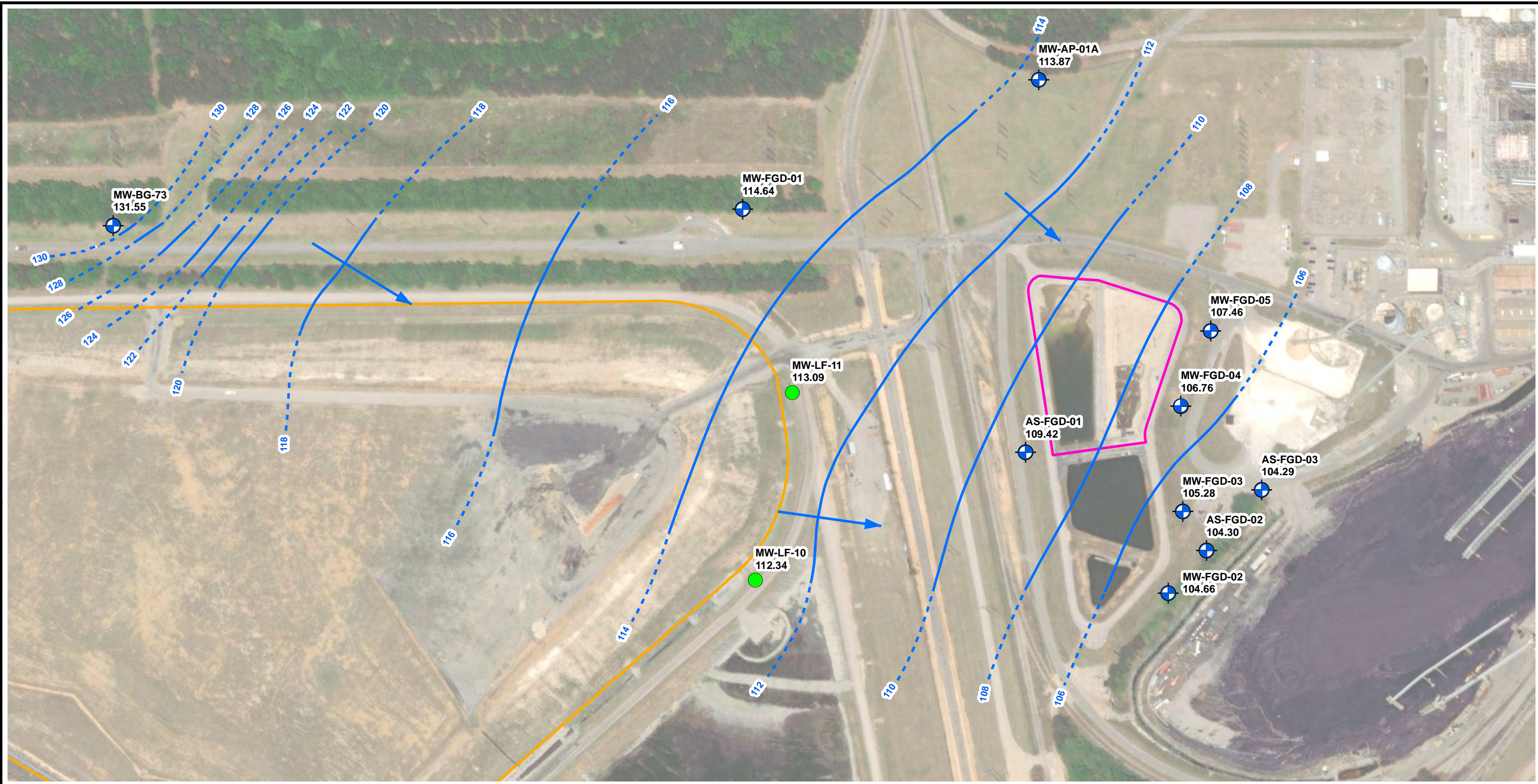
- LEGEND**
-  Monitoring Well
 -  Event Piezometer
 -  FGD Pond
 -  Class III Landfill



Notes:
 1 - Aerial Image from ESRI World Imagery dated April 2021.

PROJECT:		DESC WATER TREATMENT STATION FGD POND EASTOVER, SOUTH CAROLINA	
TITLE:		CCR RULE COMPLIANCE MONITORING WELL NETWORK	
DRAWN BY:	J. YONTS	PROJ. NO.:	416559.0005.0000
CHECKED BY:	D. SZYNAL	FIGURE 2	
APPROVED BY:	R. MAYER		
DATE:	SEPTEMBER 2022		
		<i>50 International Drive, Suite 150 Patwood Plaza Three Greenville, SC 29615 Phone: 864.281.0030 www.trccompanies.com</i>	
		FILE NO.: Figure2_CCR_FGD_Well_Network.mxd	

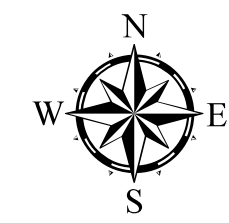
TRC - GIS
 Coordinate System: NAD 1983 StatePlane South Carolina FIPS 3900 Feet (Foot US)
 Plot Date: 9/23/2022 11:01:26 AM by JYONTS -- LAYOUT: ANSIB(11"x17")
 Path: S:\1-PROJECTS\Dominion\South Carolina\Water\SCIFGD_Pond\2022\Figures3_CCR_Map\601\Fig3.mxd



LEGEND

- Monitoring Well
- Event Piezometer
- Class III Landfill
- FGD Pond
- Water Table Elevation in feet above mean sea level (2' Contour Intervals) - Dashed where inferred.
- 110.36** Water Elevation (FT MSL)
- Approximate Groundwater Flow Direction

Notes:
 1 - Aerial Image from ESRI World Imagery dated April 2021.



PROJECT:	
DESC WATEREE STATION FGD POND EASTOVER, SOUTH CAROLINA	
TITLE:	
GROUNDWATER POTENTIOMETRIC SURFACE MAP - MARCH 15, 2022	
DRAWN BY:	J. YONTS
CHECKED BY:	D. SZYNAL
APPROVED BY:	L. CLARK
DATE:	SEPTEMBER 2022
PROJ. NO.:	416559.0005.0000
FIGURE 3	
50 International Drive, Suite 150 Patwood Plaza Three Greenville, SC 29615 Phone: 864.281.0030 www.TRCCompanies.com	
FILE NO.:	Figure3_CCR_WT_FGD_Pond_2022_01.mxd

Tables

Table 1
March 2022 Downgradient Results and Potential SSIs
Dominion Energy South Carolina
Wateree Station FGD Pond

WELL	CONSTITUENT / BTV / RESULT (mg/L except as noted) ^[1]						
	BORON ^[1]	CALCIUM ^[1]	CHLORIDE	FLUORIDE	pH ^[1]	SULFATE	TDS
	58.5	1,910	10.8	DQR [0.1] ^[2]	3.44 - 5.43	0.83	72.2
BACKGROUND WELLS							
AS-FGD-01	7.08 J ^[3]	1,350	8.47	0.0330 U	4.57	0.305 J	45.7 J
MW-AP-01A	10.9 J	593	5.91	0.0330 U	4.56	0.205 J	27.1
MW-BG-73	9.18 J	304	2.27	0.0330 U	4.56	0.377 J	4.29 J
MW-FGD-01	7.96 J ^[3]	1,490	8.55	0.0330 U	4.46	0.608	60.0 J
DOWNGRADE WELLS							
MW-FGD-02	40.4 ^[3]	5,900	7.14	0.0644 J	4.93	8.87	60.0 J
MW-FGD-03	14.6 J ^[3]	7,790	7.33	0.0628 J	5.25	12.1	61.4
MW-FGD-04	13.6 J ^[3]	5,890	14.3	0.0752 J	4.46	4.14	51.4 J
MW-FGD-05	26.0 ^[3]	19,200	14.2	0.0731 J	5.35	21.7	126

[1] Boron and calcium concentration expressed in µg/L; pH expressed in standard units (s.u.).

[2] Double Quantification Rule (DQR) requires the parameter to be detected twice consecutively above the reporting limit to be an SSI.

[3] Verification resample conducted on 6/1/2022; result of verification resample data used.

U The analyte was not detected above the level of the sample reporting limit.

Appendix C
First Semiannual Detection Monitoring Program
Event Field Data Sheets, Laboratory Reports, and
Data Validation Forms

Date(s) Measured: 3-15-22

Well ID	Well Diameter (inches)	Well Total Depth (ft BTOC)	Well Completion	Screen length (ft)	Depth to Water (ft below TOC)	Pump Type
MW-FGD-01	2	30.10	Stickup	10	24.51	Peristaltic
MW-FGD-02	2	21.21	Stickup	10	16.58	Peristaltic
MW-FGD-03	2	20.93	Stickup	10	18.02	Peristaltic
MW-FGD-04	2	21.35	Stickup	10	16.03	Peristaltic
MW-FGD-05	2	19.20	Stickup	10	15.90	Peristaltic
AS-FGD-01	2	25.87	Stickup	10	16.88	Peristaltic
AS-FGD-02	2	25.45	Stickup	10	16.13	Peristaltic
AS-FGD-03	2	26.36	Stickup	10	16.13	Peristaltic
MW-AP-DIA	2	23.82	stickup	10	14.10	Peri
MW-BG-73	2	23.38	Stickup	10	7.52	Peristaltic
AS-LF-03	2	38.07	Stickup	10	27.30	Water level
MW-LF-11	2	30.25	Stickup	10	22.17	Water level
MW-LF-10	2	27.40	Stickup	10	19.19	Water level



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>JMB</u>	DATE: <u>3/15/2022</u>
	BY: <u>RAM</u>	DATE: <u>3-21-22</u>

SAMPLE ID: MW-FGD-01	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1728</u>	DATE: <u>3/15/2022</u>	SAMPLE	TIME: <u>1800</u>	DATE: <u>3/15/2022</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.46</u> SU	CONDUCTIVITY: <u>56.02</u> umhos/cm	
			ORP: <u>89.2</u> mV	DO: <u>4.14</u> mg/L	
DEPTH TO WATER: <u>24.48</u> T/ PVC			TURBIDITY: <u>1.66</u> NTU		
DEPTH TO BOTTOM: 30.10 T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>0.9</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>18.88</u> °C OTHER: _____		
VOLUME REMOVED: <u>0.6</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u> ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1730	115	4.51	60.97	95.9	4.11	1.76	20.30	24.49	INITIAL
1745	|	4.46	57.89	90.9	4.03	2.02	18.95	24.50	|
1750	|	4.45	57.27	89.6	4.04	1.64	18.92	24.50	|
1755	|	4.45	56.43	89.7	4.12	1.72	18.90	24.50	|
1800	|	4.46	56.02	89.2	4.14	1.66	18.88	24.50	|
						1.78	—	24.50	0.6

post

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>JMB</u>	DATE: <u>3/15/2022</u> BY: <u>RAM</u> DATE: <u>3-21-22</u>

SAMPLE ID: MW-FGD-02	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1613</u>	DATE: <u>3/15/2022</u>	SAMPLE	TIME: <u>1648</u>	DATE: <u>3/15/2022</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.93</u> SU	CONDUCTIVITY: <u>82.18</u> umhos/cm	
DEPTH TO WATER: <u>16.57</u> T/ PVC			ORP: <u>141.6</u> mV	DO: <u>1.88</u> mg/L	
DEPTH TO BOTTOM: 21.21 T/ PVC			TURBIDITY: <u>2.11</u> NTU		
WELL VOLUME: <u>0.8</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>20.22</u> °C OTHER: _____		
VOLUME REMOVED: <u>0.7</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u> ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1615	125	4.96	79.06	102.3	2.12	12.4	21.77	16.62	INITIAL
1630		4.94	81.49	119.5	1.88	1.66	20.26	16.63	
1635		4.94	81.48	125.3	1.91	2.00	20.21	16.63	
1640		4.94	81.98	132.1	1.88	2.08	20.12	16.63	
1645		4.93	82.55	138.0	1.84	2.22	20.18	16.63	
1648		4.93	82.18	141.6	1.88	2.11	20.22	16.63	
post 1700						1.88		16.63	0.7

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>JMB</u>	DATE: <u>3/15/2022</u> BY: <u>LAM</u> DATE: <u>3-21-22</u>

SAMPLE ID: MW-FGD-03	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1421</u>	DATE: <u>3/15/2022</u>	SAMPLE	TIME: <u>1520</u>	DATE: <u>3/15/2022</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>5.25</u> SU	CONDUCTIVITY: <u>82.43</u> umhos/cm	
DEPTH TO WATER: <u>18.03</u> T/ PVC			ORP: <u>83.2</u> mV	DO: <u>4.54</u> mg/L	
DEPTH TO BOTTOM: 20.93 T/ PVC			TURBIDITY: <u>4.67</u> NTU	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	
WELL VOLUME: <u>0.5</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>21.09</u> °C	OTHER: _____	
VOLUME REMOVED: <u>1.1</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u>	ODOR: <u>none</u>	
COLOR: <u>cloudy</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____	FILTRATE ODOR: _____	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- <u>WAT-CCR-FGD-22102</u>		
			COMMENTS: <u>FBLK-WAT-CCR-FGD-22102 collected @ 1526</u>		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1424	80	5.12	86.36	89.8	5.85	84	22.25	18.36	INITIAL
1435	80	5.04	93.83	87.4	5.26	15.6	21.82	18.68	}
1440	80	5.11	89.81	85.6	5.14	15.2	21.99	18.80	
1445	80	5.14	85.38	84.8	5.05	8.19	21.91	18.87	
1450	70	5.15	80.35	84.3	4.54	8.04	21.90	18.91	
1455		5.18	80.94	83.3	4.51	6.27	22.00	18.94	
1500		5.19	79.93	83.5	4.54	6.06	22.13	18.97	
1505		5.23	81.23	83.9	4.28	5.34	21.91	19.02	
1510		5.21	80.15	83.7	4.10	4.92	21.69	19.03	
1515		5.25	82.30	83.0	4.42	4.55	21.69	19.04	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>BJM</u>	DATE: <u>3.15.22</u>
	BY: <u>RAM</u>	DATE: <u>3.21.22</u>

SAMPLE ID: MW-FGD-04	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1540</u>	DATE: <u>3.15.22</u>	SAMPLE	TIME: <u>1640</u>	DATE: <u>3.15.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.46</u> SU CONDUCTIVITY: <u>79.11</u> umhos/cm		
			ORP: <u>198.6</u> mV DO: <u>3.22</u> mg/L		
DEPTH TO WATER: <u>16.05</u> T/ PVC			TURBIDITY: <u>1.43</u> NTU		
DEPTH TO BOTTOM: 21.35 T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>0.8</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>20.08</u> °C OTHER: _____		
VOLUME REMOVED: <u>2.9</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u> ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS: <u>Post turb: 0.69</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1545	200	4.51	54.84	288.0	3.70	10.78	22.68	16.13	INITIAL
1550	|	4.46	62.41	241.1	3.69	8.01	20.90	|	↓
1555		4.46	63.54	316.8	3.60	6.98	20.31		
1600		4.45	66.47	266.7	3.45	6.71	20.07		
1605		4.46	66.71	238.6	3.43	5.97	20.13		
1610		4.45	77.66	222.7	3.22	3.38	20.15		
1615		4.46	73.05	213.9	3.35	3.92	20.22		
1620		4.47	75.53	211.0	3.27	3.49	20.21		
1625		4.46	75.00	205.9	3.27	2.98	20.26		
1630		4.46	79.24	202.3	3.20	2.44	20.09		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>BJM</u> DATE: <u>3-15-22</u>	BY: <u>RAM</u> DATE: <u>3-21-22</u>

SAMPLE ID: MW-FGD-05	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> VVW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1420</u>	DATE: <u>3-15-22</u>	SAMPLE	TIME: <u>1455</u>	DATE: <u>3-15-22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>5.35</u> SU	CONDUCTIVITY: <u>171.17</u> umhos/cm	
			ORP: <u>588.8</u> mV	DO: <u>1.39</u> mg/L	
DEPTH TO WATER: <u>15.92</u> T/ PVC			TURBIDITY: <u>1.71</u> NTU		
DEPTH TO BOTTOM: <u>19.20</u> T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>0.5</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>20.98</u> °C OTHER: _____		
VOLUME REMOVED: <u>1.4</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			COLOR: <u>Clear</u> ODOR: <u>none</u>		
COLOR: <u>Clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input checked="" type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS: <u>Post turb: 1.32</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1425	175	5.52	199.96	554.9	1.27	28.8	22.07	15.98	INITIAL
1430	|	5.49	194.39	572.9	1.42	16.1	20.63	16.15	↓
1435	|	5.32	164.61	603.9	1.42	6.75	20.83	16.30	
1440	|	5.32	164.20	604.6	1.47	4.26	20.70	16.33	
1445	|	5.33	168.00	598.1	1.41	4.18	20.53	16.37	
1450	|	5.35	169.15	589.5	1.35	3.05	20.82	16.43	
1455	|	5.35	171.17	588.8	1.39	1.71	20.98	16.47		1.4

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
1	250 mL	PLASTIC	B	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/>	<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/>	<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/>	<input checked="" type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/>	<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/>	<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/>	<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/>	<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/>	<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>BJM</u>	DATE: <u>3.15.22</u>
	BY: <u>RAM</u>	DATE: <u>3.21.22</u>

SAMPLE ID: AS-FGD-01	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1705</u>	DATE: <u>3.15.22</u>	SAMPLE	TIME: <u>1745</u>	DATE: <u>3.15.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.57</u> SU	CONDUCTIVITY: <u>5748</u> umhos/cm	
			ORP: <u>200.2</u> mV	DO: <u>5.59</u> mg/L	
DEPTH TO WATER: <u>16.86</u> T/ PVC			TURBIDITY: <u>10.4</u> NTU		
DEPTH TO BOTTOM: 25.87 T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>1.4</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>19.93</u> °C OTHER: _____		
VOLUME REMOVED: <u>1.2</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u> ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MSMSD <input type="checkbox"/> DUP- _____		
COMMENTS: <u>Post turb: 7.21</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1710	150	4.60	56.34	234.4	5.58	12.41	20.50	16.95	INITIAL
1715	|	4.58	44.80	208.5	5.59	14.10	20.09	|	|
1720	|	4.58	56.89	203.1	5.57	13.90	20.02	|	|
1725	|	4.57	57.36	202.1	5.62	12.1	19.97	|	|
1730	|	4.58	57.30	211.5	5.80	12.2	19.95	|	|
1735	|	4.57	57.63	201.4	5.56	10.9	19.88	|	|
1740	|	4.56	57.71	200.8	5.54	10.9	19.88	|	|
1745	|	4.57	57.48	200.2	5.59	10.4	19.93	|	1.2

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>AGM</u>	DATE: <u>3-15-22</u>
	BY: <u>RAV</u>	DATE: <u>3-2-27</u>

SAMPLE ID: AS-FGD-02	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1610</u>	DATE: <u>3-15-22</u>	SAMPLE	TIME: <u>1645</u>	DATE: <u>3-15-22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER	PH: <u>4.41</u> SU	CONDUCTIVITY: <u>76.54</u> umhos/cm	ORP: <u>165.3</u> mV	DO: <u>3.89</u> mg/L	
DEPTH TO WATER: <u>16.17</u> T/ PVC	TURBIDITY: <u>3.02</u> NTU		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: 25.45 T/ PVC	WELL VOLUME: <u>1.6</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: <u>20.16</u> °C	OTHER: _____		
VOLUME REMOVED: <u>1.2</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: <u>clear</u>	ODOR: <u>none</u>	FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
COLOR: <u>clear</u> ODOR: <u>none</u>	TURBIDITY		FILTRATE COLOR: _____	FILTRATE ODOR: _____	
<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-	DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			
COMMENTS: <u>Post turb. 2.85</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1615	120	4.51	76.97	176.1	4.05	5.23	21.49	16.24	INITIAL
1620	↓	4.44	79.62	172.1	3.65	6.79	20.23	16.30	↓
1625		4.44	79.77	171.4	3.71	7.76	20.15	16.31	
1630		4.44	79.03	169.2	3.72	2.99	20.04		
1635		4.43	78.42	166.0	3.82	3.13	19.99		
1640		4.42	77.36	166.0	3.80	3.25	20.04		
1645		4.41	76.54	165.3	3.89	3.02	20.16	<u>1.2</u>	
								<u>1.2</u>	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED: <u>3-15-22</u>	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>AGM</u> DATE: <u>AGM</u>	BY: <u>RAM</u> DATE: <u>3-21-22</u>

SAMPLE ID: AS-FGD-03	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1515</u>	DATE: <u>3-15-22</u>	SAMPLE	TIME: <u>1550</u>	DATE: <u>3-15-22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.53</u> SU	CONDUCTIVITY: <u>55.34</u> umhos/cm	
DEPTH TO WATER: <u>15.20</u> T/ PVC			ORP: <u>151.9</u> mV	DO: <u>1.77</u> mg/L	
DEPTH TO BOTTOM: 26.36 T/ PVC			TURBIDITY: <u>1.48</u> NTU		
WELL VOLUME: <u>1.9</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>20.30</u> °C OTHER: _____		
VOLUME REMOVED: <u>1.7</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u> ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS: <u>Post turb: 1.36</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1520	210	4.58	47.45	153.5	2.41	2.08	28.59	15.29	INITIAL
1525	}	4.50	54.92	156.6	1.79	2.71	21.39	15.23	}
1530		4.51	55.52	155.4	1.78	2.71	20.71	15.23	
1535		4.52	55.32	154.4	1.77	2.24	20.59		
1540		4.51	55.33	153.6	1.77	1.43	20.48		
1545		4.52	55.43	152.7	1.77	1.70	20.45		
1550		4.53	55.34	151.9	1.77	1.48	20.30		1.7

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station LF-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.2.2	BY: <u>JMB</u>	DATE: <u>3/15/2022</u>
	BY: <u>LAM</u>	DATE: <u>3-21-22</u>

SAMPLE ID: MW-BG-73	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1232</u>	DATE: <u>3/15/2022</u>	SAMPLE	TIME: <u>1305</u>	DATE: <u>3/15/2022</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.56</u> SU	CONDUCTIVITY: <u>23.30</u> umhos/cm	
			ORP: <u>90.2</u> mV	DO: <u>6.13</u> mg/L	
DEPTH TO WATER: <u>7.50</u> T/ PVC			TURBIDITY: <u>2.41</u> NTU		
DEPTH TO BOTTOM: <u>23.38</u> T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>2.7</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>20.48</u> °C OTHER: _____		
VOLUME REMOVED: <u>0.8</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u> ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS: _____					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1234	130	4.63	22.83	82.1	6.14	2.19	22.05	7.57	INITIAL
1250	|	4.57	23.29	84.5	6.20	1.82	20.33	7.60	|
1255	|	4.56	23.21	86.3	6.16	2.70	20.32	7.60	|
1300	|	4.56	23.10	89.1	6.12	2.06	20.55	|	|
1305	|	4.56	23.30	90.2	6.13	2.41	20.48	|	|
post 1315	|	—————				2.49	—————	|	0.8

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station AP-NPDES		PREPARED		CHECKED	
PROJECT NUMBER: 416559.0005.0000.6.2		BY: JMB	DATE: 3/16/2022	BY: LAM	DATE: 3-21-22
SAMPLE ID: MW-1A / MW-01A-AP		WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER			
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER					
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER					
PURGING	TIME: 1307	DATE: 3/16/2022	SAMPLE	TIME: 1340	DATE: 3/16/2022
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER		PH: 4.56 SU		CONDUCTIVITY: 42.50 umhos/cm	
		ORP: 99.8 mV		DO: 2.54 mg/L	
DEPTH TO WATER: 14.07 T/ PVC		TURBIDITY: 3.22 NTU			
DEPTH TO BOTTOM: 23.82 T/ PVC		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			
WELL VOLUME: 1.7 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS		TEMPERATURE: 18.21 °C		OTHER:	
VOLUME REMOVED: 0.8 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS		COLOR: clear		ODOR: none	
COLOR: clear		ODOR: none		FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		FILTRATE COLOR:		FILTRATE ODOR:	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER		QC SAMPLE: <input checked="" type="checkbox"/> MS/MSD CCR <input type="checkbox"/> DUP-			
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1311	140	4.58	43.22	116.6	2.47	4.84	18.00	14.09	INITIAL
1325	|	4.57	42.67	108.6	2.43	4.88	18.30	14.09	|
1330	|	4.58	42.37	101.9	2.46	4.69	18.26	14.09	|
1335	|	4.58	42.51	100.2	2.51	4.24	18.26	14.09	|
1340	|	4.56	42.50	99.8	2.54	3.22	18.21	14.09	|
post 1437	—————					2.16	—————	14.09	0.8

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 5 TEMP.: +/-

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
1	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	AMBER	C	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Wateree Station	MODEL: <u>AquaTroll</u>	SAMPLER: JB / BM / AM
PROJECT NO.: 416559.0005.0000	SERIAL #: <u>728550</u>	DATE: <u>3-15-22</u>

PH CALIBRATION CHECK

pH 7		pH 4 / 10		CAL. RANGE	TIME
(LOT #): <u>21010066</u>	(EXP. DATE): <u>8/22</u>	(LOT #): <u>Autocal</u>	(EXP. DATE):		
PRE-CAL. READING / STANDARD		PRE-CAL. READING / STANDARD			
<u>6.83</u> / <u>7.00</u>		<u>4.25</u> / <u>4.00</u>		<input type="checkbox"/> WITHIN RANGE	<u>0850/0900</u>
<u>7.00</u> / <u>7.00</u>		<u>4.01</u> / <u>4.00</u>		<input type="checkbox"/> WITHIN RANGE	<u>0855/0905</u>
/		/		<input type="checkbox"/> WITHIN RANGE	
/		/		<input type="checkbox"/> WITHIN RANGE	

Post

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING		TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
(LOT #): <u>Autocal</u>	(EXP. DATE):			
PRE-CAL. READING / STANDARD				
<u>4.32</u> / <u>4.49</u>		<u>12.69</u>	<input type="checkbox"/> WITHIN RANGE	<u>0855</u>
<u>4.49</u> / <u>4.49</u>		<u>12.82</u>	<input type="checkbox"/> WITHIN RANGE	<u>0905</u>
/			<input type="checkbox"/> WITHIN RANGE	
/			<input type="checkbox"/> WITHIN RANGE	

Post

ORP CALIBRATION CHECK

CAL. READING		TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
(LOT #): <u>21140143</u>	(EXP. DATE): <u>4/23</u>			
PRE-CAL. READING / STANDARD				
<u>246</u> / <u>228</u>		<u>13.26</u>	<input type="checkbox"/> WITHIN RANGE	<u>0915</u>
<u>228</u> / <u>228</u>		<u>13.28</u>	<input type="checkbox"/> WITHIN RANGE	<u>0920</u>
/			<input type="checkbox"/> WITHIN RANGE	
/			<input type="checkbox"/> WITHIN RANGE	

Post

D.O. CALIBRATION CHECK

CALIBRATION READING		CAL. RANGE	TIME
(mg/L)			
Baro: 13 <u>770</u> mmHg		<input type="checkbox"/> WITHIN RANGE	<u>0910</u>
Temp: <u>13°</u>		<input type="checkbox"/> WITHIN RANGE	
Calc: <u>10.7</u>		<input type="checkbox"/> WITHIN RANGE	
Actual: <u>10.65</u>		<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)				CAL. RANGE	TIME
(LOT #):	(EXP. DATE):	(LOT #):	(EXP. DATE):		
PRE-CAL. READING / STANDARD		POST-CAL. READING / STANDARD			
<u>3.07</u> / <u>0</u>		<u>0</u> / <u>0</u>		<input type="checkbox"/> WITHIN RANGE	<u>0900</u>
<u>2.28</u> / <u>1</u>		<u>1</u> / <u>1</u>		<input type="checkbox"/> WITHIN RANGE	
<u>8.29</u> / <u>10</u>		<u>1</u> / <u>10</u>		<input type="checkbox"/> WITHIN RANGE	
/		/		<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION	<input type="checkbox"/> STANDARD SOLUTION (S)
(LOT #): <u>21070193</u>	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE): <u>8/22</u>	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

Lamotte Turbidimeter s/n 2949-0913

PROBLEMS ENCOUNTERED

NONE

CORRECTIVE ACTIONS

NONE

SIGNED [Signature] DATE 3-15-22

CHECKED BY [Signature] DATE 3/21/22



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Wateree Station	MODEL: <u>Aqua Troll 400</u>	SAMPLER: <u>(RM)</u> JB / BM / AM
PROJECT NO.: 416559.0005.0000	SERIAL #: <u>851425</u>	DATE: <u>3-15-2022</u>

PH CALIBRATION CHECK

pH 7		pH 4 / 10		CAL. RANGE	TIME
(LOT #):	(EXP. DATE):	(LOT #):	(EXP. DATE):		
PRE-CAL. READING / STANDARD		PRE-CAL. READING / STANDARD			
<u>7.04 / 7.00</u>		<u>3.94 / 4.00</u>		<input checked="" type="checkbox"/> WITHIN RANGE	<u>0825</u>
<u>/</u>		<u>10.01 / 10.00</u>		<input checked="" type="checkbox"/> WITHIN RANGE	<u>0830</u>
<u>/</u>		<u>/</u>		<input type="checkbox"/> WITHIN RANGE	
<u>/</u>		<u>/</u>		<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING		TEMPERATURE	CAL. RANGE	TIME
(LOT #):	(EXP. DATE):	(*CELSIUS)		
PRE-CAL. READING / STANDARD				
<u>4730 / 4490</u>		<u>10.68</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>0823</u>
<u>/</u>			<input type="checkbox"/> WITHIN RANGE	
<u>/</u>			<input type="checkbox"/> WITHIN RANGE	
<u>/</u>			<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING		TEMPERATURE	CAL. RANGE	TIME
(LOT #):	(EXP. DATE):	(*CELSIUS)		
PRE-CAL. READING / STANDARD				
<u>245 / 228</u>		<u>11.89</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>0831</u>
<u>/</u>			<input type="checkbox"/> WITHIN RANGE	
<u>/</u>			<input type="checkbox"/> WITHIN RANGE	
<u>/</u>			<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING		CAL. RANGE	TIME
(mg/L)			
<u>Temp = 12.64°C 10.87</u> <u>Baro = 769.04 mm Hg</u> <u>Calc = 11.2 mg/L</u> <u>Act = 11.3 mg/L</u>		<input checked="" type="checkbox"/> WITHIN RANGE	<u>0819</u>
		<input type="checkbox"/> WITHIN RANGE	
		<input type="checkbox"/> WITHIN RANGE	
		<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #):	(EXP. DATE):		
PRE-CAL. READING / STANDARD			
POST-CAL. READING / STANDARD			
<u>0.13 / 0.00</u>		<input checked="" type="checkbox"/> WITHIN RANGE	<u>0820</u>
<u>0.88 / 1.00</u>		<input checked="" type="checkbox"/> WITHIN RANGE	<u>0821</u>
<u>8.91 / 10.00</u>		<input checked="" type="checkbox"/> WITHIN RANGE	<u>0821</u>
<u>/</u>		<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION	<input type="checkbox"/> STANDARD SOLUTION (S)
(LOT #):	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE):	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

<u>NONE</u>

<u>NONE</u>

SIGNED [Signature] DATE 3-15-22

CHECKED BY [Signature] DATE 3/21/22



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Wateree Station	MODEL: Aquatrol	SAMPLER: JB / BM / <u>AM</u>
PROJECT NO.: 416559.0005.0000	SERIAL #: 851425	DATE: 3-16-22

PH CALIBRATION CHECK

pH 7 (LOT #): 21010066 (EXP. DATE): 08/22	pH 4 / 10 (LOT #): 21080189 (EXP. DATE): 06/2022	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD	PRE-CAL. READING / STANDARD		
7.06 / 7.00	4.14 / 4.00	<input type="checkbox"/> WITHIN RANGE	853
7.00 / 7.00	3.99 / 4.00	<input type="checkbox"/> WITHIN RANGE	856
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

Post

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): 21470032 (EXP. DATE): 09/2022	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
4.58 / 4.49	18.13	<input type="checkbox"/> WITHIN RANGE	0858
4.49 / 4.49	18.25	<input type="checkbox"/> WITHIN RANGE	0900
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

Post

ORP CALIBRATION CHECK

CAL. READING (LOT #): 21140143 (EXP. DATE): 04/23	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
233 / 228	17.96	<input type="checkbox"/> WITHIN RANGE	0904
228 / 228	18.01	<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

Post

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
Temp: 18°C Baro: 761 mmHg Actual: 9.53 Calc: 9.4	<input type="checkbox"/> WITHIN RANGE	0901
	<input type="checkbox"/> WITHIN RANGE	
	<input type="checkbox"/> WITHIN RANGE	
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): 1837-3919 (EXP. DATE):	(LOT #): / (EXP. DATE):		
PRE-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
0.72 / 0	0 / 0	<input type="checkbox"/> WITHIN RANGE	0910
1.19 / 1	1.01 / 1	<input type="checkbox"/> WITHIN RANGE	
9.55 / 10	10.08 / 10	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): 21070191 (EXP. DATE): 08/22	<input type="checkbox"/> STANDARD SOLUTION (S)
LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

PROBLEMS ENCOUNTERED

NON E

CORRECTIVE ACTIONS

NON E

SIGNED: [Signature] DATE: 3-16-22

CHECKED BY: [Signature] DATE: 3/21/22



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Wateree Station	MODEL: Aquatroll	SAMPLER: JB / BM / AM
PROJECT NO.: 416559.0005.0000	SERIAL #: 728550	DATE: 3-16-22

PH CALIBRATION CHECK

pH 7		pH 4 10		CAL. RANGE	TIME
(LOT #): 21010066	(EXP. DATE): 8/22	(LOT #): AC	(EXP. DATE): AC		
PRE-CAL. READING / STANDARD	PRE-CAL. READING / STANDARD				
6.71 / 7.00	4.24 / 4.00	<input type="checkbox"/> WITHIN RANGE	0850 / 0900		
7.00 / 7.00	4.01 / 4.00	<input type="checkbox"/> WITHIN RANGE	0855 / 0905		
/	/	<input type="checkbox"/> WITHIN RANGE			
/	/	<input type="checkbox"/> WITHIN RANGE			

Post

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #): AC	(°CELSIUS)		
PRE-CAL. READING / STANDARD			
4.65 / 4.49	18.21	<input type="checkbox"/> WITHIN RANGE	0900
4.49 / 4.49	18.11	<input type="checkbox"/> WITHIN RANGE	0905
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING	TEMPERATURE	CAL. RANGE	TIME
(LOT #): 21140143	(°CELSIUS)		
PRE-CAL. READING / STANDARD			
217 / 228	18.57	<input type="checkbox"/> WITHIN RANGE	0915
228 / 228	18.57	<input type="checkbox"/> WITHIN RANGE	0920
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

Post

D.O. CALIBRATION CHECK

CALIBRATION READING	CAL. RANGE	TIME
(mg/L)		
Baro: 762 mmHg	<input type="checkbox"/> WITHIN RANGE	0910
Temp: 18	<input type="checkbox"/> WITHIN RANGE	
Calc: 9.4	<input type="checkbox"/> WITHIN RANGE	
Actual: 9.5	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #):	(LOT #):		
PRE-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
5.10 / 0	0.06 / 0	<input type="checkbox"/> WITHIN RANGE	
3.56 / 1	1.02 / 1	<input type="checkbox"/> WITHIN RANGE	
13.08 / 10	11.1 / 10	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION	<input type="checkbox"/> STANDARD SOLUTION (S)
(LOT #): 21070193	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE): 8/22	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/>	
<input type="checkbox"/>	
	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

Lgmette 2020NE S/N 2949-0413

PROBLEMS ENCOUNTERED

NONE

CORRECTIVE ACTIONS

NONE

SIGNED: *[Signature]* DATE: 3-16-22

CHECKED BY: *[Signature]* DATE: 3/21/22



March 31, 2022

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, Virginia 23219

Re: CCR Groundwater Monitoring - Level 1 Package
Work Order: 573581

Dear Kelly Hicks:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 17, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 1648.

Sincerely,

Meredith Boddiford
Project Manager

Purchase Order: 50149867
Enclosures



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Case Narrative

**Receipt Narrative
for
Dominion Energy (50149867)
SDG: 573581**

March 31, 2022

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on March 17, 2022 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

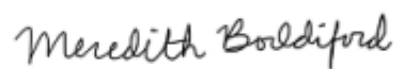
Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
573581001	MW-FGD-01-2022Q1
573581002	MW-FGD-02-2022Q1
573581003	MW-FGD-03-2022Q1
573581004	MW-FGD-04-2022Q1
573581005	MW-FGD-05-2022Q1
573581006	AS-FGD-01-2022Q1
573581007	AS-FGD-02-2022Q1
573581008	DU-WAT-CCR-FGD-22102
573581009	AS-FGD-03-2022Q1
573581010	FGD-Pond B-2022Q1
573581011	FBLK-WAT-CCR-FGD-22103

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

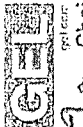
The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: General Chemistry and Metals.

A handwritten signature in black ink that reads "Meredith Boddiford". The script is cursive and fluid.

Meredith Boddiford
Project Manager

Chain of Custody and Supporting Documentation

Project # 416559 0003 0000 4 2
 GEL Quote #
 CCC Number 01 2021341
 PO Number PO 50149867



Laboratories LLC
 Chemistry / Radiochemistry / Radiobiology / Facility Services
 Chain of Custody and Analytical Request
 GEL Project Manager: Taylor Cannon

573581

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 768-1178

Client Name: Dominion Energy Phone # 803-258-1528
 Project/Site Name: Waterce Station FGD CCR 2022Q1 Fax #
 Address: Waterce, South Carolina
 Collected By: B. Medlin / J. Bradley Send Results To: A.Reed@dominenergy.com

Sample ID: *M15/mso*

* For computers - indicate start and stop date/time

Sample ID	Date Collected (mm-dd-yy)	Time Collected (Military)	QC Code (1)	Field Filtered (2)	Sample Matrix (3)	Should this sample be considered:	Total number of containers	Preservative Type (6)	Comments
M15-FGD-01-2022Q1	3-15-22	1800	N	N	GW	Radioactive (4) Yes, please supply isotopic info) (5) Known or possible hazards	3		EPA 200.8 - B, Ca
M15-FGD-02-2022Q1	3-15-22	1648	N	N	GW		3		
M15-FGD-03-2022Q1	3-15-22	1520	N	N	GW		3		
M15-FGD-04-2022Q1	3-15-22	1640	N	N	GW		3		
M15-FGD-05-2022Q1	3-15-22	1455	N	N	GW		6	2	2
M15-FGD-01-2022Q1	3-15-22	1745	N	N	GW		3	1	1
M15-FGD-02-2022Q1	3-15-22	1645	N	N	GW		3	1	1
M15-FGD-03-2022Q1	3-15-22	1550	N	N	GW		3	1	1

Chain of Custody Signatures

Received by (signed)	Date	Time
<i>[Signature]</i>	3-17-22	
<i>[Signature]</i>	3-17-22	1834

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

1) Chain of Custody Number - Client Determined
 2) QC Codes: N - Normal Sample, TH - Trip Blank, ED - field Duplicate, MS - Matrix Spike Sample, MSD - Matrix Spike Duplicate Sample, G - Grab, C - Composite
 3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or a N - for no sample was not field filtered
 4) Matrix Codes: DW - Drinking Water, GW - Groundwater, NW - Surface Water, WW - Waste Water, W - Water, ML - Misc Liquid, SO - Soil, SD - Sediment, SL - Sludge, SS - Solid Waste, O - Oil, F - Filter, P - Wipe, V - Vial, E - Fuel, N - Nasal
 5) Sample Analysis Requested: Analytical method requested (i.e., 4200B, 601007776A) and number of containers provided for each (i.e., 3260B - 1, 601007776A - 1)
 6) Preservative Type: BA - Hydrochloric Acid, SI - Nitric Acid, SF - Sodium Hydroxide, SA - Sulfonic Acid, AA - Acetic Acid, BX - Hexane, ST - Sodium Thiosulfate. If no preservative is added - leave field blank
 7) KNOWN OR POSSIBLE HAZARDS
 Characteristic Hazards: [Listed Waste] [Other] FI = Flammable/ignitable CO = Corrosive RE = Reactive
 RCRA Metals: As = Arsenic Hg = Mercury Ba = Barium Se = Selenium Cd = Cadmium Ag = Silver Cr = Chromium Mn = Misc. RCRA metals Pb = Lead
 Listed Waste: LW = Listed Waste (F, K, P, and U-listed wastes) Waste code(s):
 TSCA Regulated PCB = Polychlorinated biphenyls
 Description: (i.e., High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Other: (i.e., Other / Unknown)
 Please provide any additional details below regarding handling and/or disposal concerns (i.e., Origin of sample(s), type of site collected from, cell matrices, etc.)

For Lab Receiving Use Only: Custody Seal intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:
 TAT Requested: Norm: Rush: _____ Specify:
 For Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:

MB

SAMPLE RECEIPT & REVIEW FORM

Client: <u>DMNH</u>		SDG/AR/COC/Work Order: <u>573581</u>
Received By: <u>[Signature]</u>		Date Received: <u>3-17-22</u> <u>JR-22</u>
Enter one tracking number per line below.		IR temperature gun # <u>1000</u> Daily Calibration performed <u>Y/N</u>
Enter courier if applicable and no tracking available.		Uncorrected temperature readings are to the 0.1 degree with final recorded temperatures rounded to the 0.5 degree. Provide individual container details when a cooler requiring 0 <= 6°C is identified as out of specification.
<u>Cooler #1</u>	Uncorrected Temp: <u>1.0</u>	IR Correction Factor: +/- <u>0</u> Final Recorded Temp: <u>2.0</u> Within 0.0-6.0C: <u>Y/N</u>
<u>Cooler #2</u>	Uncorrected Temp: <u>1.30</u>	IR Correction Factor: +/- <u>0</u> Final Recorded Temp: <u>1.0</u> Within 0.0-6.0C: <u>Y/N</u>
<u>Cooler #3</u>	Uncorrected Temp: <u>0.10</u>	IR Correction Factor: +/- <u>0</u> Final Recorded Temp: <u>0.0</u> Within 0.0-6.0C: <u>Y/N</u>
<u>Cooler #4</u>	Uncorrected Temp: <u>0.40</u>	IR Correction Factor: +/- <u>0</u> Final Recorded Temp: <u>0.0</u> Within 0.0-6.0C: <u>Y/N</u>
<u>Cooler #5</u>	Uncorrected Temp: <u>3.40</u>	IR Correction Factor: +/- <u>0</u> Final Recorded Temp: <u>3.0</u> Within 0.0-6.0C: <u>Y/N</u>
<u>Cooler #6</u>	Uncorrected Temp: <u>4.00</u>	IR Correction Factor: +/- <u>0</u> Final Recorded Temp: <u>4.0</u> Within 0.0-6.0C: <u>Y/N</u>
Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____ If UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Maximum Net Counts Observed ⁹ (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/Hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
4 Samples requiring cold preservation were unpacked directly into cold storage	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Uncorrected Temp: _____ Correction Factor: +/- _____ Final Recorded Temp: _____ Within 0.0-6.0C: Y/N
5 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lat#: If Yes, are Encures or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
6 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
7 Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
8 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
9 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
10 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
11 Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

PM (or PMA) review: Initials Am Date 3/23/22 Page 1 of 1

Laboratory Certifications

List of current GEL Certifications as of 31 March 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Metals Analysis

Case Narrative

Metals
Technical Case Narrative
Dominion Energy
SDG #: 573581

Product: Determination of Metals by ICP-MS

Analytical Method: EPA 200.8 SC_NPDES

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2242917

Preparation Method: EPA 200.2

Preparation Procedure: GL-MA-E-016 REV# 18

Preparation Batch: 2242916

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
573581001	MW-FGD-01-2022Q1
573581002	MW-FGD-02-2022Q1
573581003	MW-FGD-03-2022Q1
573581004	MW-FGD-04-2022Q1
573581005	MW-FGD-05-2022Q1
573581006	AS-FGD-01-2022Q1
573581007	AS-FGD-02-2022Q1
573581008	DU-WAT-CCR-FGD-22102
573581009	AS-FGD-03-2022Q1
1205044485	Method Blank (MB)ICP-MS
1205044486	Laboratory Control Sample (LCS)
1205044521	573581005(MW-FGD-05-2022Q1L) Serial Dilution (SD)
1205044519	573581005(MW-FGD-05-2022Q1D) Sample Duplicate (DUP)
1205044520	573581005(MW-FGD-05-2022Q1S) Matrix Spike (MS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement

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

Quality Control (QC) Information

Serial Dilution % Difference Statement

The serial dilution is used to assess matrix suppression or enhancement. Raw element concentrations 25x the

IDL/MDL for CVAA, 50X the IDL/MDL for ICP and 100X the IDL/MDL for ICP-MS analyses are applicable for serial dilution assessment. Not all the applicable analytes were within the established acceptance criteria. Matrix suppression may be suspected. The data has been qualified.

Sample	Analyte	Value
1205044521 (MW-FGD-05-2022Q1SDILT)	Calcium	14.9 *(0%-10%)

Miscellaneous Information

Additional Comments

All method-driven specifications are followed for these analyses except where client-specific SOW requirements are required to be met.

Certification Statement

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

GEL LABORATORIES LLC

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

Qualifier Definition Report for

DMNN001 Dominion Energy (50149867)

Client SDG: 573581 GEL Work Order: 573581

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Edmund Frampton

Date: 31 MAR 2022

Title: Group Leader

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 573581

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:573581001

BASIS: As Received

DATE COLLECTED 15-MAR-22

CLIENT ID: MW-FGD-01-2022Q1

LEVEL: Low

DATE RECEIVED 17-MAR-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	9.07	ug/L	J	4.00	15.0	15.0	1	MS	PRB	03/30/22 14:58	220330-1	2242917
7440-70-2	Calcium	1490	ug/L	E	30.0	100	100	1	MS	PRB	03/30/22 14:58	220330-1	2242917

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2242917	2242916	EPA 200.2	50	mL	50	mL	03/18/22	LG2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 573581

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:573581002

BASIS: As Received

DATE COLLECTED 15-MAR-22

CLIENT ID: MW-FGD-02-2022Q1

LEVEL: Low

DATE RECEIVED 17-MAR-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	61.6	ug/L		4.00	15.0	15.0	1	MS	PRB	03/30/22 15:01	220330-1	2242917
7440-70-2	Calcium	5900	ug/L	E	30.0	100	100	1	MS	PRB	03/30/22 15:01	220330-1	2242917

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2242917	2242916	EPA 200.2	50	mL	50	mL	03/18/22	LG2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 573581

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:573581003

BASIS: As Received

DATE COLLECTED 15-MAR-22

CLIENT ID: MW-FGD-03-2022Q1

LEVEL: Low

DATE RECEIVED 17-MAR-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	16.5	ug/L		4.00	15.0	15.0	1	MS	PRB	03/30/22 15:04	220330-1	2242917
7440-70-2	Calcium	7790	ug/L	E	30.0	100	100	1	MS	PRB	03/30/22 15:04	220330-1	2242917

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2242917	2242916	EPA 200.2	50	mL	50	mL	03/18/22	LG2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 573581

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:573581004

BASIS: As Received

DATE COLLECTED 15-MAR-22

CLIENT ID: MW-FGD-04-2022Q1

LEVEL: Low

DATE RECEIVED 17-MAR-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	13.8	ug/L	J	4.00	15.0	15.0	1	MS	PRB	03/30/22 15:07	220330-1	2242917
7440-70-2	Calcium	5890	ug/L	E	30.0	100	100	1	MS	PRB	03/30/22 15:07	220330-1	2242917

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2242917	2242916	EPA 200.2	50	mL	50	mL	03/18/22	LG2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 573581

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:573581005

BASIS: As Received

DATE COLLECTED 15-MAR-22

CLIENT ID: MW-FGD-05-2022Q1

LEVEL: Low

DATE RECEIVED 17-MAR-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	23.4	ug/L		4.00	15.0	15.0	1	MS	PRB	03/30/22 15:16	220330-1	2242917
7440-70-2	Calcium	19200	ug/L	E	30.0	100	100	1	MS	PRB	03/30/22 15:16	220330-1	2242917

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2242917	2242916	EPA 200.2	50	mL	50	mL	03/18/22	LG2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 573581

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:573581006

BASIS: As Received

DATE COLLECTED 15-MAR-22

CLIENT ID: AS-FGD-01-2022Q1

LEVEL: Low

DATE RECEIVED 17-MAR-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	7.62	ug/L	J	4.00	15.0	15.0	1	MS	PRB	03/30/22 15:37	220330-1	2242917
7440-70-2	Calcium	1350	ug/L	E	30.0	100	100	1	MS	PRB	03/30/22 15:37	220330-1	2242917

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2242917	2242916	EPA 200.2	50	mL	50	mL	03/18/22	LG2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 573581

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:573581007

BASIS: As Received

DATE COLLECTED 15-MAR-22

CLIENT ID: AS-FGD-02-2022Q1

LEVEL: Low

DATE RECEIVED 17-MAR-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	13.1	ug/L	J	4.00	15.0	15.0	1	MS	PRB	03/30/22 15:40	220330-1	2242917
7440-70-2	Calcium	2320	ug/L	E	30.0	100	100	1	MS	PRB	03/30/22 15:40	220330-1	2242917

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2242917	2242916	EPA 200.2	50	mL	50	mL	03/18/22	LG2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 573581

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:573581009

BASIS: As Received

DATE COLLECTED 15-MAR-22

CLIENT ID: AS-FGD-03-2022Q1

LEVEL: Low

DATE RECEIVED 17-MAR-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	11.5	ug/L	J	4.00	15.0	15.0	1	MS	PRB	03/30/22 15:47	220330-1	2242917
7440-70-2	Calcium	2010	ug/L	E	30.0	100	100	1	MS	PRB	03/30/22 15:47	220330-1	2242917

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2242917	2242916	EPA 200.2	50	mL	50	mL	03/18/22	LG2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 573581

Contract: DMNN00101

Lab Code: GEL

Instrument ID: ICPMS15

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01	Boron	101	ug/L	100	ug/L	100.7	90.0 – 110.0	MS	30-MAR-22 14:22	220330-1
	Calcium	5030	ug/L	5000	ug/L	100.5	90.0 – 110.0	MS	30-MAR-22 14:22	220330-1
CCV01	Boron	98.8	ug/L	100	ug/L	98.8	90.0 – 110.0	MS	30-MAR-22 14:37	220330-1
	Calcium	5030	ug/L	5000	ug/L	100.6	90.0 – 110.0	MS	30-MAR-22 14:37	220330-1
CCV02	Boron	100	ug/L	100	ug/L	100	90.0 – 110.0	MS	30-MAR-22 14:46	220330-1
	Calcium	5010	ug/L	5000	ug/L	100.2	90.0 – 110.0	MS	30-MAR-22 14:46	220330-1
CCV03	Boron	97.8	ug/L	100	ug/L	97.8	90.0 – 110.0	MS	30-MAR-22 15:10	220330-1
	Calcium	4950	ug/L	5000	ug/L	99.1	90.0 – 110.0	MS	30-MAR-22 15:10	220330-1
CCV04	Boron	101	ug/L	100	ug/L	100.7	90.0 – 110.0	MS	30-MAR-22 15:31	220330-1
	Calcium	4960	ug/L	5000	ug/L	99.3	90.0 – 110.0	MS	30-MAR-22 15:31	220330-1
CCV05	Boron	101	ug/L	100	ug/L	100.8	90.0 – 110.0	MS	30-MAR-22 15:59	220330-1
	Calcium	4950	ug/L	5000	ug/L	99.1	90.0 – 110.0	MS	30-MAR-22 15:59	220330-1

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS
-2b-
CRDL Standard for ICP & ICPMS

SDG No: 573581

Contract: DMNN00101

Lab Code: GEL

Instrument ID: ICPMS15

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01	Boron	14.4	ug/L	15	ug/L	96	70.0 – 130.0	MS	30-MAR-22 14:28	220330-1
	Calcium	240	ug/L	200	ug/L	120.2	70.0 – 130.0	MS	30-MAR-22 14:28	220330-1
CRDL02	Boron	14.6	ug/L	15	ug/L	97.4	70.0 – 130.0	MS	30-MAR-22 15:50	220330-1
	Calcium	245	ug/L	200	ug/L	122.4	70.0 – 130.0	MS	30-MAR-22 15:50	220330-1

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 573581

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run</u>
ICB01	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	30-MAR-22 14:25	220330-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	30-MAR-22 14:25	220330-1
CCB01	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	30-MAR-22 14:40	220330-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	30-MAR-22 14:40	220330-1
CCB02	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	30-MAR-22 14:49	220330-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	30-MAR-22 14:49	220330-1
CCB03	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	30-MAR-22 15:13	220330-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	30-MAR-22 15:13	220330-1
CCB04	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	30-MAR-22 15:34	220330-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	30-MAR-22 15:34	220330-1
CCB05	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	30-MAR-22 16:02	220330-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	30-MAR-22 16:02	220330-1

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 573581
Contract: DMNN00101
Matrix: GW

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M*</u>	<u>MDL</u>	<u>RDL</u>
1205044485	Boron	4.00	ug/L	+/-7.5	U	MS	4.00	15.0
	Calcium	30.0	ug/L	+/-50	U	MS	30.0	100

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-4-
Interference Check Sample

SDG No: 573581

Contract: DMNN00101

Lab Code: GEL

Instrument: ICPMS15

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Boron	1.27	ug/L					30-MAR-22 14:31	220330-1
	Calcium	95500	ug/L	100000	ug/L	95.5	80.0 - 120.0	30-MAR-22 14:31	220330-1
ICSAB01									
	Boron	19.0	ug/L	20	ug/L	95.1	80.0 - 120.0	30-MAR-22 14:34	220330-1
	Calcium	96200	ug/L	100000	ug/L	96.2	80.0 - 120.0	30-MAR-22 14:34	220330-1
ICSA02									
	Boron	1.01	ug/L					30-MAR-22 15:53	220330-1
	Calcium	94700	ug/L	100000	ug/L	94.7	80.0 - 120.0	30-MAR-22 15:53	220330-1
ICSAB02									
	Boron	18.9	ug/L	20	ug/L	94.3	80.0 - 120.0	30-MAR-22 15:56	220330-1
	Calcium	95300	ug/L	100000	ug/L	95.3	80.0 - 120.0	30-MAR-22 15:56	220330-1

METALS

-5a-

Matrix Spike Summary

SDG NO. 573581 Client ID: MW-FGD-05-2022Q1S

Contract: DMNN00101 Level: Low

Matrix: GROUND WATER % Solids:

Sample ID: 573581005 Spike ID: 1205044520

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M*</u>
Calcium	ug/L		21700		19200		2000	123	N/A	MS
Boron	ug/L	75-125	136		23.4		100	113		MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

Metals
-6-
Duplicate Sample Summary

SDG No.: 573581

Lab Code: GEL

Contract: DMNN00101

Client ID: MW-FGD-05-2022Q1D

Matrix: GROUND WATER

Level: Low

Sample ID: 573581005

Duplicate ID: 1205044519

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M*
Boron	ug/L	+/-30	23.4		24.9		6.05		MS
Calcium	ug/L	+/-20%	19200		20000		4.04		MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 573581

Contract: DMNN00101

Aqueous LCS Source: Enviromental Express

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M*</u>
1205044486	Boron	ug/L	100	100		100	85-115	MS
	Calcium	ug/L	2000	2290		115	85-115	MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 573581 Client ID: MW-FGD-05-2022Q1L

Contract: DMNN00101

Matrix: LIQUID Level: Low

Sample ID: 573581005 Serial Dilution ID: 1205044521

<u>Analyte</u>	<u>Initial Value</u> ug/L	<u>C</u>	<u>Serial Value</u> ug/L	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M*</u>
Boron	23.4		27.4	B	16.95			MS
Calcium	19200		22100		14.926	E	10	MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 573581

Method Type: MS

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	2242916						
1205044485	MB for batch 2242917	MB	G	18-MAR-22	50mL	50mL	
1205044486	LCS for batch 2242917	LCS	G	18-MAR-22	50mL	50mL	
1205044520	MW-FGD-05-2022Q1S	MS	G	18-MAR-22	50mL	50mL	
1205044519	MW-FGD-05-2022Q1D	DUP	G	18-MAR-22	50mL	50mL	
573581001	MW-FGD-01-2022Q1	SAMPLE	G	18-MAR-22	50mL	50mL	
573581002	MW-FGD-02-2022Q1	SAMPLE	G	18-MAR-22	50mL	50mL	
573581003	MW-FGD-03-2022Q1	SAMPLE	G	18-MAR-22	50mL	50mL	
573581004	MW-FGD-04-2022Q1	SAMPLE	G	18-MAR-22	50mL	50mL	
573581005	MW-FGD-05-2022Q1	SAMPLE	G	18-MAR-22	50mL	50mL	
573581006	AS-FGD-01-2022Q1	SAMPLE	G	18-MAR-22	50mL	50mL	
573581007	AS-FGD-02-2022Q1	SAMPLE	G	18-MAR-22	50mL	50mL	
573581008	DU-WAT-CCR-FGD-22102	SAMPLE	G	18-MAR-22	50mL	50mL	
573581009	AS-FGD-03-2022Q1	SAMPLE	G	18-MAR-22	50mL	50mL	

General Chem Analysis

Case Narrative

**General Chemistry
Technical Case Narrative
Dominion Energy
SDG #: 573581**

Product: Ion Chromatography
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2242886

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
573581001	MW-FGD-01-2022Q1
573581002	MW-FGD-02-2022Q1
573581003	MW-FGD-03-2022Q1
573581004	MW-FGD-04-2022Q1
573581005	MW-FGD-05-2022Q1
573581006	AS-FGD-01-2022Q1
573581007	AS-FGD-02-2022Q1
573581008	DU-WAT-CCR-FGD-22102
573581009	AS-FGD-03-2022Q1
573581010	FGD-Pond B-2022Q1
573581011	FBLK-WAT-CCR-FGD-22103
1205044433	Method Blank (MB)
1205044434	Laboratory Control Sample (LCS)
1205044435	573561001(MW-AP-01A-2022Q1) Sample Duplicate (DUP)
1205044436	573561001(MW-AP-01A-2022Q1) Post Spike (PS)
1205044437	573581005(MW-FGD-05-2022Q1) Sample Duplicate (DUP)
1205044438	573581005(MW-FGD-05-2022Q1) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

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

Analyte	Sample	Value
Chloride	1205044436 (MW-AP-01A-2022Q1PS)	113* (90%-110%)
	1205044438 (MW-FGD-05-2022Q1PS)	119* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205044437 (MW-FGD-05-2022Q1DUP), 1205044438 (MW-FGD-05-2022Q1PS), 573581004 (MW-FGD-04-2022Q1), 573581005 (MW-FGD-05-2022Q1) and 573581010 (FGD-Pond B-2022Q1) were diluted because target analyte concentrations exceeded the calibration range. The following sample 573581010 (FGD-Pond B-2022Q1) in this sample group was diluted due to matrix interference. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	573581		
	004	005	010
Chloride	2X	2X	2000X
Fluoride	1X	1X	10X
Sulfate	1X	2X	2000X

Miscellaneous Information

Additional Comments

All method-driven specifications are followed for these analyses except where client-specific SOW requirements are required to be met.

Product: Solids, Total Dissolved
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 19
Analytical Batch: 2243645

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
573581001	MW-FGD-01-2022Q1
573581002	MW-FGD-02-2022Q1
573581003	MW-FGD-03-2022Q1
573581004	MW-FGD-04-2022Q1
573581005	MW-FGD-05-2022Q1
573581006	AS-FGD-01-2022Q1
573581007	AS-FGD-02-2022Q1
573581008	DU-WAT-CCR-FGD-22102
573581009	AS-FGD-03-2022Q1
573581010	FGD-Pond B-2022Q1
573581011	FBLK-WAT-CCR-FGD-22103
1205046142	Method Blank (MB)
1205046143	Laboratory Control Sample (LCS)
1205046144	573439001(NonSDG) Sample Duplicate (DUP)
1205046145	573549001(NonSDG) Sample Duplicate (DUP)
1205046146	573581005(MW-FGD-05-2022Q1) Sample Duplicate (DUP)

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

Data Summary:

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

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205046144 (Non SDG 573439001DUP)	6.29* (0%-5%)

Miscellaneous Information

Additional Comments

All method-driven specifications are followed for these analyses except where client-specific SOW requirements are required to be met.

Certification Statement

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

GEL LABORATORIES LLC

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

Qualifier Definition Report for

DMNN001 Dominion Energy (50149867)

Client SDG: 573581 GEL Work Order: 573581

The Qualifiers in this report are defined as follows:

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

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature:



Name: Aubrey Kingsbury

Date: 30 MAR 2022

Title: Team Leader

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: MW-FGD-01-2022Q1
Sample ID: 573581001
Matrix: GW
Collect Date: 15-MAR-22 18:00
Receive Date: 17-MAR-22
Collector: Client

Project: DMNN00101
Client ID: DMNN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.55	0.0670	0.200	mg/L		1	JLD1	03/18/22	0235	2242886	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		0.608	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		60.0	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	MW-FGD-02-2022Q1	Project:	DMNN00101
Sample ID:	573581002	Client ID:	DMNN001
Matrix:	GW		
Collect Date:	15-MAR-22 16:48		
Receive Date:	17-MAR-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.14	0.0670	0.200	mg/L		1	JLD1	03/18/22	0306	2242886	1
Fluoride	J	0.0644	0.0330	0.100	mg/L		1					
Sulfate		8.87	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		60.0	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	MW-FGD-03-2022Q1	Project:	DMNN00101
Sample ID:	573581003	Client ID:	DMNN001
Matrix:	GW		
Collect Date:	15-MAR-22 15:20		
Receive Date:	17-MAR-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.33	0.0670	0.200	mg/L		1	JLD1	03/18/22	0337	2242886	1
Fluoride	J	0.0628	0.0330	0.100	mg/L		1					
Sulfate		12.1	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		61.4	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219
Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: MW-FGD-04-2022Q1 Project: DMNN00101
Sample ID: 573581004 Client ID: DMNN001
Matrix: GW
Collect Date: 15-MAR-22 16:40
Receive Date: 17-MAR-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0752	0.0330	0.100	mg/L		1	JLD1	03/18/22	0407	2242886	1
Sulfate		4.14	0.133	0.400	mg/L		1					
Chloride		14.3	0.134	0.400	mg/L		2	JLD1	03/18/22	1525	2242886	2
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		51.4	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SM 2540C	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	MW-FGD-05-2022Q1	Project:	DMNN00101
Sample ID:	573581005	Client ID:	DMNN001
Matrix:	GW		
Collect Date:	15-MAR-22 14:55		
Receive Date:	17-MAR-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0731	0.0330	0.100	mg/L		1	JLD1	03/18/22	0438	2242886	1
Chloride		14.2	0.134	0.400	mg/L		2	JLD1	03/18/22	1556	2242886	2
Sulfate		21.7	0.266	0.800	mg/L		2					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		126	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: AS-FGD-01-2022Q1

Project: DMNN00101

Sample ID: 573581006

Client ID: DMNN001

Matrix: GW

Collect Date: 15-MAR-22 17:45

Receive Date: 17-MAR-22

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.47	0.0670	0.200	mg/L		1	JLD1	03/18/22	0743	2242886	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	J	0.305	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		45.7	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: AS-FGD-02-2022Q1

Project: DMNN00101

Sample ID: 573581007

Client ID: DMNN001

Matrix: GW

Collect Date: 15-MAR-22 16:45

Receive Date: 17-MAR-22

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.19	0.0670	0.200	mg/L		1	JLD1	03/18/22	0814	2242886	1
Fluoride	J	0.0924	0.0330	0.100	mg/L		1					
Sulfate		7.32	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		51.4	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: DU-WAT-CCR-FGD-22102 Project: DMNN00101
Sample ID: 573581008 Client ID: DMNN001
Matrix: GW
Collect Date: 15-MAR-22 12:00
Receive Date: 17-MAR-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.37	0.0670	0.200	mg/L		1	JLD1	03/18/22	0845	2242886	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		12.8	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		72.9	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	AS-FGD-03-2022Q1	Project:	DMNN00101
Sample ID:	573581009	Client ID:	DMNN001
Matrix:	GW		
Collect Date:	15-MAR-22 15:50		
Receive Date:	17-MAR-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		9.08	0.0670	0.200	mg/L		1	JLD1	03/18/22	0916	2242886	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate		2.65	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		37.1	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
 Address : 120 Tredegar Street
 Richmond, Virginia 23219
 Contact: Kelly Hicks
 Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: FGD-Pond B-2022Q1	Project: DMNN00101
Sample ID: 573581010	Client ID: DMNN001
Matrix: WW	
Collect Date: 15-MAR-22 17:30	
Receive Date: 17-MAR-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride		8.00	0.330	1.00	mg/L		10	JLD1	03/18/22	1800	2242886	1
Chloride		5670	134	400	mg/L		2000	JLD1	03/18/22	1831	2242886	2
Sulfate		1420	266	800	mg/L		2000					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		14000	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: March 30, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	FBLK-WAT-CCR-FGD-22103	Project:	DMNN00101
Sample ID:	573581011	Client ID:	DMNN001
Matrix:	AQ		
Collect Date:	15-MAR-22 15:26		
Receive Date:	17-MAR-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride	U	ND	0.0670	0.200	mg/L		1	JLD1	03/18/22	1729	2242886	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids	J	12.9	3.40	14.3	mg/L			KLP1	03/21/22	1427	2243645	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: March 30, 2022

Page 1 of 3

Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, Virginia

Contact: Kelly Hicks

Workorder: 573581

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2242886										
QC1205044435	573561001	DUP									
Chloride		5.91		5.90	mg/L	0.198		(0%-20%)	JLD1	03/17/22	20:25
Fluoride	U	ND	U	ND	mg/L	N/A					
Sulfate	J	0.205	J	0.194	mg/L	5.57 ^		(+/-8)			
QC1205044437	573581005	DUP									
Chloride		14.2		14.2	mg/L	0.0803		(0%-20%)		03/18/22	16:27
Fluoride	J	0.0731	J	0.0737	mg/L	0.817 ^		(+/-2)		03/18/22	05:09
Sulfate		21.7		21.5	mg/L	0.935		(0%-20%)		03/18/22	16:27
QC1205044434	LCS										
Chloride	5.00			4.89	mg/L		97.9	(90%-110%)		03/17/22	18:52
Fluoride	2.50			2.35	mg/L		94	(90%-110%)			
Sulfate	10.0			9.89	mg/L		98.9	(90%-110%)			
QC1205044433	MB										
Chloride			U	ND	mg/L					03/17/22	18:22
Fluoride			U	ND	mg/L						
Sulfate			U	ND	mg/L						
QC1205044436	573561001	PS									
Chloride	5.00	5.91		11.6	mg/L		113 *	(90%-110%)		03/18/22	22:48

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QC Summary

Workorder: 573581

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2242886										
Fluoride	2.50	U	ND	2.53	mg/L		101	(90%-110%)	JLD1	03/18/22	22:48
Sulfate	10.0	J	0.205	10.2	mg/L		99.5	(90%-110%)			
QC1205044438	573581005 PS										
Chloride	5.00		7.11	13.1	mg/L		119*	(90%-110%)		03/18/22	16:58
Fluoride	2.50	J	0.0731	2.54	mg/L		98.8	(90%-110%)		03/18/22	05:40
Sulfate	10.0		10.8	21.7	mg/L		108	(90%-110%)		03/18/22	16:58
Solids Analysis											
Batch	2243645										
QC1205046144	573439001 DUP										
Total Dissolved Solids			117	110	mg/L	6.29*		(0%-5%)	KLP1	03/21/22	14:27
QC1205046145	573549001 DUP										
Total Dissolved Solids			204	213	mg/L	4.11		(0%-5%)		03/21/22	14:27
QC1205046146	573581005 DUP										
Total Dissolved Solids			126	121	mg/L	3.47		(0%-5%)		03/21/22	14:27
QC1205046143	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		03/21/22	14:27
QC1205046142	MB										
Total Dissolved Solids			U	ND	mg/L					03/21/22	14:27

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.

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QC Summary

Workorder: 573581

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
E											
H											
J											
J											
N/A											
N1											
ND											
NJ											
Q											
R											
R											
U											
X											
Z											
^											
d											
e											
h											

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

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

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

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

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

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 573245

CONTRACT: DMNN00101

METHOD TYPE: SW846

SAMPLE ID: 573245014

BASIS: As Received

DATE COLLECTED 15-MAR-22

CLIENT ID: MW-BG-73-2022Q1

LEVEL: Low

DATE RECEIVED 15-MAR-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	9.18	ug/L	J	5.20	15.0	15.0	1	MS	SKJ	03/29/22 12:23	220329-1	2245781
7440-70-2	Calcium	304	ug/L		80.0	200	200	1	MS	SKJ	03/29/22 12:23	220329-1	2245781

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
------------------	------------	-------------	------------------	-------	----------------	-------	------	---------

2245781	2245780	SW846 3005A	50	mL	50	mL	03/25/22	RG1
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***Analytical Methods:**

MS SW846 3005A/6020B

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 25, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	MW-BG-73-2022Q1	Project:	DMNN00101
Sample ID:	573245014	Client ID:	DMNN001
Matrix:	GW		
Collect Date:	15-MAR-22 13:05		
Receive Date:	15-MAR-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.27	0.0670	0.200	mg/L		1	JLD1	03/15/22	2229	2241672	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	J	0.377	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids	J	4.29	3.40	14.3	mg/L			KLP1	03/21/22	1248	2243637	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 573561

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID: 573561001

BASIS: As Received

DATE COLLECTED 16-MAR-22

CLIENT ID: MW-AP-01A-2022Q1

LEVEL: Low

DATE RECEIVED 17-MAR-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-36-0	Antimony	0.600	ug/L	U	0.600	2.00	2.00	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7440-38-2	Arsenic	1.66	ug/L	U	1.66	5.00	5.00	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7440-39-3	Barium	59.4	ug/L		0.500	2.00	2.00	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7440-41-7	Beryllium	0.245	ug/L	J	0.200	0.500	0.500	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7440-42-8	Boron	10.9	ug/L	J	4.00	15.0	15.0	1	MS	PRB	03/24/22 15:12	220324-2	2242905
7440-43-9	Cadmium	0.0300	ug/L	U	0.0300	0.100	0.100	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7440-70-2	Calcium	593	ug/L		30.0	100	100	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7440-47-3	Chromium	1.00	ug/L	U	1.00	3.00	3.00	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7440-48-4	Cobalt	0.523	ug/L	J	0.100	1.00	1.00	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7439-92-1	Lead	1.13	ug/L	J	0.500	2.00	2.00	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7439-93-2	Lithium	2.00	ug/L	U	2.00	10.0	10.0	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7439-97-6	Mercury	0.0670	ug/L	U	0.0670	0.200	0.200	1	AV	MTMI	03/25/22 10:09	032522W2-4	2245050
7439-98-7	Molybdenum	0.167	ug/L	U	0.167	0.500	0.500	1	MS	PRB	03/25/22 10:39	220325-3	2242905
7782-49-2	Selenium	1.50	ug/L	U	1.50	5.00	5.00	1	MS	PRB	03/23/22 21:54	220323-1	2242905
7440-28-0	Thallium	0.165	ug/L	J	0.125	0.500	0.500	1	MS	PRB	03/24/22 15:12	220324-2	2242905

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2242905	2242904	EPA 200.2	50	mL	50	mL	03/18/22	LG2
2245050	2245049	EPA 245.1/245.2 Prep	20	mL	20	mL	03/24/22	AXS5

***Analytical Methods:**

MS EPA 200.8 SC_NPDES
AV EPA 245.1/245.2

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: March 28, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: MW-AP-01A-2022Q1
Sample ID: 573561001
Matrix: GW
Collect Date: 16-MAR-22 13:40
Receive Date: 17-MAR-22
Collector: Client

Project: DMNN00101
Client ID: DMNN001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.91	0.0670	0.200	mg/L		1	JLD1	03/17/22	1954	2242886	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	J	0.205	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		27.1	3.40	14.3	mg/L			KLP1	03/23/22	1453	2244611	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit



This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

**Wateree Power Station Groundwater Sampling
Samples Collected between: 3/14/2022 and 3/18/2022**

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

573581

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Sample	Location	Sample Type	Method	Anayte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
MW-FGD-01-2022Q1	MW-FGD-01	N	EPA 200.8	Boron	T		U	BF	9.07	15.0		ug/L
MW-FGD-01-2022Q1	MW-FGD-01	N	SM 2540C	Total Dissolved Solids	N	60.0	J	BF	3.40	14.3		mg/L
MW-FGD-02-2022Q1	MW-FGD-02	N	EPA 200.8	Boron	T		U	BF	61.6	61.6		ug/L
MW-FGD-02-2022Q1	MW-FGD-02	N	EPA 300.0	Fluoride	N	0.0644	J	RL	0.0330	0.100		mg/L
MW-FGD-02-2022Q1	MW-FGD-02	N	SM 2540C	Total Dissolved Solids	N	60.0	J	BF	3.40	14.3		mg/L
MW-FGD-03-2022Q1	MW-FGD-03	N	EPA 200.8	Boron	T		U	BF	16.5	16.5		ug/L
MW-FGD-03-2022Q1	MW-FGD-03	N	EPA 300.0	Fluoride	N	0.0628	J	RL	0.0330	0.100		mg/L
MW-FGD-03-2022Q1	MW-FGD-03	N	SM 2540C	Total Dissolved Solids	N	61.4	J	BF	3.40	14.3		mg/L
MW-FGD-04-2022Q1	MW-FGD-04	N	EPA 200.8	Boron	T		U	BF	13.8	15.0		ug/L
MW-FGD-04-2022Q1	MW-FGD-04	N	EPA 300.0	Fluoride	N	0.0752	J	RL	0.0330	0.100		mg/L
MW-FGD-04-2022Q1	MW-FGD-04	N	SM 2540C	Total Dissolved Solids	N	51.4	J	BF	3.40	14.3		mg/L
MW-FGD-05-2022Q1	MW-FGD-05	N	EPA 200.8	Boron	T		U	BF	23.4	23.4		ug/L
MW-FGD-05-2022Q1	MW-FGD-05	N	EPA 300.0	Fluoride	N	0.0731	J	RL	0.0330	0.100		mg/L
AS-FGD-01-2022Q1	AS-FGD-01	N	EPA 200.8	Boron	T		U	BF	7.62	15.0		ug/L
AS-FGD-01-2022Q1	AS-FGD-01	N	EPA 300.0	Sulfate	N	0.305	J	RL	0.133	0.400		mg/L
AS-FGD-01-2022Q1	AS-FGD-01	N	SM 2540C	Total Dissolved Solids	N	45.7	J	BF	3.40	14.3		mg/L
AS-FGD-02-2022Q1	AS-FGD-02	N	EPA 200.8	Boron	T		U	BF	13.1	15.0		ug/L
AS-FGD-02-2022Q1	AS-FGD-02	N	EPA 300.0	Fluoride	N	0.0924	J	RL	0.0330	0.100		mg/L
AS-FGD-02-2022Q1	AS-FGD-02	N	SM 2540C	Total Dissolved Solids	N	51.4	J	BF	3.40	14.3		mg/L
DU-WAT-CCR-FGD-22102	MW-FGD-03	FD	EPA 200.8	Boron	T		U	BF	15.8	15.8		ug/L
AS-FGD-03-2022Q1	AS-FGD-03	N	EPA 200.8	Boron	T		U	BF	11.5	15.0		ug/L
AS-FGD-03-2022Q1	AS-FGD-03	N	SM 2540C	Total Dissolved Solids	N	37.1	J	BF	3.40	14.3		mg/L
FBLK-WAT-CCR-FGD-22103	Field Blank	FB	SM 2540C	Total Dissolved Solids	N	12.9	J	RL	3.40	14.3		mg/L

Data Qualifiers	
U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.
H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results
T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Lab Sample ID	573581001
Sys Sample Code	MW-FGD-01-2022Q1
Sample Name	MW-FGD-01-2022Q1
Sample Date	3/15/2022 6:00:00 PM
Location	WAT-MW-FGD-01 / MW-FGD-01
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U	BF		9.07	9.07	15.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	1490				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	8.55				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.0330	0.0330	0.100	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	0.608				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	60.0	J	BF		3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573581002
Sys Sample Code	MW-FGD-02-2022Q1
Sample Name	MW-FGD-02-2022Q1
Sample Date	3/15/2022 4:48:00 PM
Location	WAT-MW-FGD-02 / MW-FGD-02
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U	BF		61.6	61.6	61.6	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	5900				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	7.14				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0644	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	8.87				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	60.0	J	BF		3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573581003
Sys Sample Code	MW-FGD-03-2022Q1
Sample Name	MW-FGD-03-2022Q1
Sample Date	3/15/2022 3:20:00 PM
Location	WAT-MW-FGD-03 / MW-FGD-03
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U	BF		16.5	16.5	16.5	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	7790				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	7.33				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0628	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	12.1				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	61.4	J	BF		3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573581004
Sys Sample Code	MW-FGD-04-2022Q1
Sample Name	MW-FGD-04-2022Q1
Sample Date	3/15/2022 4:40:00 PM
Location	WAT-MW-FGD-04 / MW-FGD-04
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U	BF		13.8	13.8	15.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	5890				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	14.3				0.134	0.134	0.400	Y	Yes	2	NA
EPA 300.0	Fluoride	16984-48-8	N	mg/L	0.0752	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	4.14				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	51.4	J	BF		3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573581005
Sys Sample Code	MW-FGD-05-2022Q1
Sample Name	MW-FGD-05-2022Q1
Sample Date	3/15/2022 2:55:00 PM
Location	WAT-MW-FGD-05 / MW-FGD-05
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U	BF		23.4	23.4	23.4	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	19200				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	14.2				0.134	0.134	0.400	Y	Yes	2	NA
	Sulfate	14808-79-8	N	mg/L	21.7				0.266	0.266	0.800	Y	Yes	2	NA
EPA 300.0	Fluoride	16984-48-8	N	mg/L	0.0731	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	126				3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573581006
Sys Sample Code	AS-FGD-01-2022Q1
Sample Name	AS-FGD-01-2022Q1
Sample Date	3/15/2022 5:45:00 PM
Location	WAT-AS-FGD-01 / AS-FGD-01
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U	BF		7.62	7.62	15.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	1350				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	8.47				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.0330	0.0330	0.100	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	0.305	J	RL		0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	45.7	J	BF		3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573581007
Sys Sample Code	AS-FGD-02-2022Q1
Sample Name	AS-FGD-02-2022Q1
Sample Date	3/15/2022 4:45:00 PM
Location	WAT-AS-FGD-02 / AS-FGD-02
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U	BF		13.1	13.1	15.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	2320				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	9.19				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0924	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	7.32				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	51.4	J	BF		3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573581008
Sys Sample Code	DU-WAT-CCR-FGD-22102
Sample Name	DU-WAT-CCR-FGD-22102
Sample Date	3/15/2022 12:00:00 PM
Location	WAT-MW-FGD-03 / MW-FGD-03
Sample Type	FD
Matrix	GW
Parent Sample	MW-FGD-03-2022Q1

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U	BF		15.8	15.8	15.8	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	7320				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	7.37				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.0330	0.0330	0.100	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	12.8				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	72.9				3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573581009
Sys Sample Code	AS-FGD-03-2022Q1
Sample Name	AS-FGD-03-2022Q1
Sample Date	3/15/2022 3:50:00 PM
Location	WAT-AS-FGD-03 / AS-FGD-03
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U	BF		11.5	11.5	15.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	2010				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	9.08				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.0330	0.0330	0.100	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	2.65				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	37.1	J	BF		3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573581010
Sys Sample Code	FGD-POND B-2022Q1
Sample Name	FGD-POND B-2022Q1
Sample Date	3/15/2022 5:30:00 PM
Location	FGD POND B / FGD POND B
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 300.0	Chloride	16887-00-6	N	mg/L	5670				134	134	400	Y	Yes	200	NA
	Fluoride	16984-48-8	N	mg/L	8.00				0.330	0.330	1.00	Y	Yes	10	NA
	Sulfate	14808-79-8	N	mg/L	1420				266	266	800	Y	Yes	200	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	14000				3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573581011
Sys Sample Code	FBLK-WAT-CCR-FGD-22103
Sample Name	FBLK-WAT-CCR-FGD-22103
Sample Date	3/15/2022 3:26:00 PM
Location	WAT-CCRFGD-FB / Field Blank
Sample Type	FB
Matrix	AQ
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 300.0	Chloride	16887-00-6	N	mg/L		U			0.0670	0.0670	0.200	N	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.0330	0.0330	0.100	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.133	0.133	0.400	N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	12.9	J	RL		3.40	3.40	14.3	Y	Yes	1	NA

Lab Sample ID	573245014
Sys Sample Code	MW-BG-73-2022Q1
Sample Name	MW-BG-73-2022Q1
Sample Date	3/15/2022 1:05:00 PM
Location	WAT-MW-BG-73 / MW-BG-73
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 300.0	Chloride	16887-00-6	N	mg/L	2.27				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.0330	0.0330	0.100	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	0.377	J	RL		0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	4.29	J	RL		3.40	3.40	14.3	Y	Yes	1	NA
SW-846 6020B	Boron	7440-42-8	T	ug/L	9.18	J	RL		5.20	5.20	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	304				80.0	80.0	200	Y	Yes	1	NA

Lab Sample ID	573561001
Sys Sample Code	MW-AP-01A-2022Q1
Sample Name	MW-AP-01A-2022Q1
Sample Date	3/16/2022 1:40:00 PM
Location	WAT-MW-01A / MW-01A
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Radium-226+228 Sum	RA226/228	N	pCi/L	4.47			1.71				Y	Yes	1	NA
EPA 200.8	Antimony	7440-36-0	T	ug/L		U			0.600	0.600	2.00	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			1.66	1.66	5.00	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	59.4				0.500	0.500	2.00	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.245	J	RL		0.200	0.200	0.500	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	10.9	J	RL		4.00	4.00	15.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.0300	0.0300	0.100	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	593				30.0	30.0	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.00	1.00	3.00	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.523	J	RL		0.100	0.100	1.00	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	1.13	J	RL		0.500	0.500	2.00	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			2.00	2.00	10.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.167	0.167	0.500	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			1.50	1.50	5.00	N	Yes	1	NA
Thallium	7440-28-0	T	ug/L	0.165	J	RL		0.125	0.125	0.500	Y	Yes	1	NA	
EPA 245.1	Mercury	7439-97-6	T	ug/L		U			0.0670	0.0670	0.200	N	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	5.91				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.0330	0.0330	0.100	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	0.205	J	RL		0.133	0.133	0.400	Y	Yes	1	NA
EPA 903.1	Radium-226	13982-63-3	N	pCi/L	1.47			0.599	0.607	0.607	1.00	Y	Yes	1	NA
EPA 904.0	Radium-228	15262-20-1	N	pCi/L	3.01			1.60	1.91	1.91	3.00	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	27.1				3.40	3.40	14.3	Y	Yes	1	NA



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>JMB</u>	DATE: <u>6-1-2022</u>
	BY: <u>JAY</u>	DATE: <u>6/6/22</u>

SAMPLE ID: MW-FGD-01	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1556</u>	DATE: <u>6-1-2022</u>	SAMPLE	TIME: <u>1640</u>	DATE: <u>6-1-2022</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER	PH: <u>4.23</u> SU	CONDUCTIVITY: <u>45.01</u> umhos/cm	ORP: <u>213.0</u> mV	DO: <u>4.61</u> mg/L	
DEPTH TO WATER: <u>24.10</u> T/ PVC	TURBIDITY: <u>0.62</u> NTU		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: 30.10 T/ PVC	WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: <u>21.73</u> °C	OTHER: _____		
VOLUME REMOVED: <u>0.9</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: <u>clear</u>	ODOR: <u>none</u>	FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
COLOR: <u>clear</u>	ODOR: <u>none</u>	FILTRATE COLOR: _____	FILTRATE ODOR: _____		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-			
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS:				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1559	115	4.12	46.92	228.2	4.79	3.04	26.64	24.11	INITIAL
1615		4.23	48.79	217.2	4.57	1.50	21.50	24.11	
1620		4.24	48.07	215.5	4.62	1.21	21.27	24.11	
1625		4.24	47.22	213.9	4.59	1.15	21.63	24.11	
1630		4.24	45.92	212.8	4.59	0.71	21.86	24.11	
1635		4.23	45.78	212.8	4.59	0.70	21.86	24.11	
1640		4.23	45.01	213.0	4.61	0.62	21.73	24.11	
post 1704						0.11		24.11	0.9

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

PH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	2 L	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>AGM</u>	DATE: <u>6.1.22</u>
	BY: <u>JAY</u>	DATE: <u>6/6/22</u>

SAMPLE ID: MW-FGD-02	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1043</u>	DATE: <u>6.1.22</u>	SAMPLE	TIME: <u>1115</u>	DATE: <u>6.1.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.80</u> SU	CONDUCTIVITY: <u>82.96</u> umhos/cm	
			ORP: <u>243.3</u> mV	DO: <u>2.33</u> mg/L	
DEPTH TO WATER: <u>16.49</u> T/ PVC			TURBIDITY: <u>1.72</u> NTU		
DEPTH TO BOTTOM: 21.21 T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>0.8</u> LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>22.42</u> °C OTHER: _____		
VOLUME REMOVED: _____ LITERS <input type="checkbox"/> <input checked="" type="checkbox"/> GALLONS			COLOR: <u>Clear</u> ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- <u>2220</u>		
COMMENTS: <u>Post turb: 1.22</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1045	125	4.84	89.65	164.6	2.44	2.93	26.49	16.57	INITIAL
1050	}	4.77	82.71	204.8	2.37	2.31	22.45	16.53	
1055		4.79	82.26	218.4	2.32	1.92	22.62		
1100		4.80	82.30	224.2	2.35	1.55	22.77		
1105		4.79	83.36	235.1	2.28	1.56	22.62		
1110		4.79	82.76	239.8	2.30	1.60	22.67		
1115		4.80	82.96	243.3	2.33	1.72	22.42		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
1	2 L	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>KEM</u>	DATE: <u>6-1-22</u> BY: <u>JAY</u> DATE: <u>6/6/22</u>

SAMPLE ID: MW-FGD-03	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1216</u>	DATE: <u>6-1-22</u>	SAMPLE	TIME: <u>1335</u>	DATE: <u>6-1-22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER	PH: <u>5.18</u> SU	CONDUCTIVITY: <u>120.52</u> umhos/cm	ORP: <u>212.5</u> mV	DO: <u>4.56</u> mg/L	
DEPTH TO WATER: <u>17.86</u> T/ PVC	TURBIDITY: <u>4.78</u> NTU				
DEPTH TO BOTTOM: <u>20.93</u> T/ PVC	<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY				
WELL VOLUME: <u>0.5</u> LITERS <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: _____ °C		OTHER: _____		
VOLUME REMOVED: _____ LITERS <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: <u>clear</u>		ODOR: <u>none</u>		
COLOR: <u>hazy</u>	ODOR: <u>none</u>		FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____		FILTRATE ODOR: _____
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS: <u>Post turb: 3.23</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1220	65	4.96	183.19	208.1	4.91	133	28.96	18.01	INITIAL
1225	}	4.89	238.72	216.8	5.13	71.6	26.17	18.14	
1230		4.89	239.62	212.8	4.98	54.0	26.36	18.32	
1315		5.16	123.65	208.8	4.57	7.47	26.79	18.90	
1320		5.16	123.11	207.8	4.45	6.11	27.28	18.93	
1325		5.18	118.25	208.9	4.58	4.89	27.56	18.94	
1330		5.19	117.77	212.3	4.52	4.15	27.88	18.95	
1335		5.18	120.52	212.5	4.56	4.78	27.70	18.96	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES . A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	2 L	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>JMB</u>	DATE: <u>6-1-2022</u> BY: <u>JAY</u> DATE: <u>6/6/22</u>

SAMPLE ID: MW-FGD-04	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1318</u>	DATE: <u>6-1-2022</u>	SAMPLE	TIME: <u>1415</u>	DATE: <u>6-1-2022</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.01</u> SU	CONDUCTIVITY: <u>83.51</u> umhos/cm	
			ORP: <u>181.0</u> mV	DO: <u>2.96</u> mg/L	
DEPTH TO WATER: <u>15.75</u> T/ PVC			TURBIDITY: <u>0.04</u> NTU		
DEPTH TO BOTTOM: 21.35 T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>22.48</u> °C		OTHER: _____
VOLUME REMOVED: <u>4.8</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u>		ODOR: <u>none</u>
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____		FILTRATE ODOR: _____
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS: _____					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1338	250	4.51	73.92	135.2	3.05	2.31	24.51	15.84	INITIAL
1345		4.22	80.41	152.7	3.07	1.79	23.07	15.84	
1350		4.15	79.63	160.6	3.09	1.25	23.08	15.84	
1355		4.09	78.66	167.4	3.05	0.19	22.75	15.84	
1400		4.07	76.56	171.8	3.10	0.11	22.27	15.84	
1405		4.03	84.94	175.9	2.96	0.02	22.57	15.84	
1410		4.02	83.34	178.5	2.96	0.07	22.62	15.84	
1415		4.01	83.51	181.0	2.96	0.04	22.48	15.84	
<i>post</i> 1428						0.05		15.84	4.8

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____								
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	2 L	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y <input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>AGM</u>	DATE: <u>6-1-22</u>
	BY: <u>JAV</u>	DATE: <u>6/6/22</u>

SAMPLE ID: MW-FGD-05	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1437</u>	DATE: <u>6-1-22</u>	SAMPLE	TIME: <u>1520</u>	DATE: <u>6-1-22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER	PH: <u>5.09</u> SU	CONDUCTIVITY: <u>161.77</u> umhos/cm	ORP: <u>608.6</u> mV	DO: <u>1.74</u> mg/L	
DEPTH TO WATER: _____ T/ PVC	TURBIDITY: <u>2.14</u> NTU		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: <u>19.20</u> T/ PVC	TEMPERATURE: <u>29.23</u> °C	OTHER: _____			
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: <u>clear</u>	ODOR: <u>none</u>			
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO				
COLOR: <u>clear</u>	FILTRATE COLOR: _____	FILTRATE ODOR: _____			
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	QC SAMPLE: <input checked="" type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-				
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS: <u>Post turb: 1.68</u>				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1440	75	5.26	173.99	559.9	1.48	87.0	30.50	15.89	INITIAL
1445	}	5.04	162.09	600.0	1.78	9.34	28.48	15.98	
1450		5.05	158.01	609.9	1.83	8.79	28.90	16.02	
1455		5.05	157.81	612.8	1.82	2.47	28.44		
1500		5.05	158.90	612.9	1.76	2.33	29.02		
1505		5.06	147.16	613.1	1.83	2.30	28.53		
1510		5.10	160.74	610.5	1.84	2.17	28.55		
1515		5.10	162.25	607.5	1.76	2.13	29.11		
1520		5.09	161.77	608.6	1.74	2.14	29.23		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N		
1	2 L	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N		
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N		
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N		
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N		

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: JMB	DATE: 6-1-2022
	BY: JAV	DATE: 6/4/22

SAMPLE ID: AS-FGD-01	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1451	DATE: 6-1-2022	SAMPLE	TIME: 1525	DATE: 6-1-2022
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: 4.10	SU	CONDUCTIVITY: 56.28 umhos/cm
			ORP: 217.2 mV	DO: 5.73 mg/L	
DEPTH TO WATER: 16.43 T/ PVC			TURBIDITY: 0.31 NTU		
DEPTH TO BOTTOM: 25.87 T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 23.13 °C OTHER: _____		
VOLUME REMOVED: 2.1 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: clear ODOR: none		
COLOR: clear ODOR: none			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1453	150	4.10	54.87	206.9	5.60	0.77	25.37	16.51	INITIAL
1505		4.11	55.72	211.7	5.90	0.77	22.75	16.54	
1510		4.10	55.86	213.8	5.91	0.51	22.88	16.54	
1515		4.11	56.06	214.9	5.83	0.82	23.02	16.54	
1520		4.08	56.03	217.2	5.80	0.42	23.13	16.54	
1525		4.10	56.28	217.2	5.73	0.31	23.13	16.54	
1546						0.32		16.54	2.1

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	2 L	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: JMB	DATE: 6-1-2022
	BY: JAY	DATE: 6/6/22

SAMPLE ID: AS-FGD-02	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1102	DATE: 6-1-2022	SAMPLE	TIME: 1135	DATE: 6-1-2022
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: 3.96 SU CONDUCTIVITY: 70.38 umhos/cm		
			ORP: 114.0 mV DO: 3.91 mg/L		
DEPTH TO WATER: 16.05 T/ PVC			TURBIDITY: 0.75 NTU		
DEPTH TO BOTTOM: 25.45 T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 21.55 °C OTHER:		
VOLUME REMOVED: 1.1 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: clear ODOR: none		
COLOR: clear ODOR: none			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: FILTRATE ODOR:		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS:					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1100	130	4.27	74.22	110.2	3.85	1.75	22.78	16.06	INITIAL
1120		3.95	72.52	107.2	3.76	1.84	21.73	16.14	
1125		3.97	71.49	108.5	3.82	1.38	21.77	16.14	
1130		3.95	70.93	112.4	3.78	0.83	21.59	16.14	
1135		3.96	70.38	114.0	3.91	0.75	21.55	16.14	
post 1200						0.90		16.14	1.1

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
1	2 L	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N

SHIPPING METHOD:	DATE SHIPPED:	AIRBILL NUMBER:
COC NUMBER:	SIGNATURE:	DATE SIGNED:



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>JMB</u>	DATE: <u>6-1-2022</u>
	BY: <u>JAV</u>	DATE: <u>6/1/22</u>

SAMPLE ID: AS-FGD-03	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1209</u>	DATE: <u>6-1-2022</u>	SAMPLE	TIME: <u>1240</u>	DATE: <u>6-1-2022</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>3.84</u> SU	CONDUCTIVITY: <u>58.28</u> umhos/cm	
DEPTH TO WATER: <u>14.95</u> T/ PVC			ORP: <u>145.0</u> mV	DO: <u>1.80</u> mg/L	
DEPTH TO BOTTOM: <u>26.36</u> T/ PVC			TURBIDITY: <u>0.10</u> NTU		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>23.39</u> °C OTHER: _____		
VOLUME REMOVED: <u>2.6</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u> ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
COMMENTS: <u>FBLK-WAT-CCR-FGD collected @ 1225</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1212	210	3.81	56.82	140.1	2.07	0.22	25.23	15.00	INITIAL
1225	|	3.86	58.75	139.6	1.78	0.24	23.07	|	|
1230	|	3.86	58.43	140.5	1.79	0.09	23.73	|	|
1235	|	3.87	58.44	142.1	1.79	0.08	23.26	|	|
1240	|	3.84	58.28	145.0	1.80	0.10	23.39	|	|
post 1258	|	|	|	|	|	0.09	|	|	2.6

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	2 L	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME:	Wateree Station	MODEL: <u>AquaTroll 400</u>	SAMPLER: <u>JB / BTD / AM</u>
PROJECT NO.:	416559.0005.0000	SERIAL #: <u>909268</u>	DATE: <u>6/1/22</u>

PH CALIBRATION CHECK

pH 7 (LOT #): <u>21380102</u> (EXP. DATE): <u>9/23</u>	pH 4 / 10 (LOT #): (EXP. DATE):	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD	PRE-CAL. READING / STANDARD		
<u>6.74 / 7.00</u>	<u>7.00 / 7.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1045</u>
<u>4.23 / 4.00</u>	<u>4.00 / 4.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1045</u>
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
<u>4.61 / 4.49</u>	<u>26.90</u>	<input type="checkbox"/> WITHIN RANGE	
<u>4.48 / 4.49</u>	<u>27.78</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1045</u>
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): <u>2140142</u> (EXP. DATE): <u>4/23</u>	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
<u>323 / 228</u>	<u>23.10</u>	<input type="checkbox"/> WITHIN RANGE	
<u>228 / 228</u>	<u>23.07</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1045</u>
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
<u>Baro: 769 mmHg</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1045</u>
<u>Temp: 27°C</u>	<input type="checkbox"/> WITHIN RANGE	
<u>Act: 7.6 mg/L</u>	<input type="checkbox"/> WITHIN RANGE	
<u>Calc: 7.9 mg/L</u>	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): <u>N/A</u> (EXP. DATE):	(LOT #): <u>N/A</u> (EXP. DATE):		
PRE-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
<u>0.23 / 0.0</u>	<u>0.0 / 0.0</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1045</u>
<u>0.89 / 1.0</u>	<u>0.97 / 1.0</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1045</u>
<u>9.67 / 10.0</u>	<u>9.57 / 10.0</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1045</u>
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input type="checkbox"/> AUTOCAL SOLUTION (LOT #): <u>2470032</u> (EXP. DATE): <u>4/23</u>	<input type="checkbox"/> STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/>	
<input type="checkbox"/>	
⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER	

NOTES

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

<u>None</u>	<u>None</u>

6/1/22
 SIGNED _____ DATE _____

6/1/22
 CHECKED BY _____ DATE _____



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Wateree Station LF-CCR	MODEL: <u>ANALYS/459</u>	SAMPLER: <u>JB/ BM / AM</u>
PROJECT NO.: 416559.0005.0000.2.2	SERIAL #: <u>851425</u>	DATE: <u>6/1/22</u>

PH CALIBRATION CHECK

pH 7		pH 4/10		CAL RANGE	TIME
(LOT #)	(EXP. DATE)	(LOT #)	(EXP. DATE)		
PRE-CAL READING / STANDARD		PRE-CAL READING / STANDARD			
<u>6.56</u>	<u>17.00</u>	<u>9.65</u>	<u>10.00</u>	<input type="checkbox"/> WITHIN RANGE	<u>1045</u>
<u>/</u>	<u>/</u>	<u>4.94</u>	<u>14.00</u>	<input type="checkbox"/> WITHIN RANGE	<u>1050</u>
<u>7.00</u>	<u>17.00</u>	<u>10.01</u>	<u>10.00</u>	<input type="checkbox"/> WITHIN RANGE	<u>1048</u>
<u>/</u>	<u>/</u>	<u>3.99</u>	<u>14.00</u>	<input type="checkbox"/> WITHIN RANGE	<u>1051</u>

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL READING		TEMPERATURE	CAL RANGE	TIME
(LOT #)	(EXP. DATE)	(CELSIUS)		
PRE-CAL READING / STANDARD				
<u>4400</u>	<u>14490</u>	<u>23.69</u>	<input type="checkbox"/> WITHIN RANGE	
<u>4486</u>	<u>14490</u>	<u>23.69</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1051</u>
<u>/</u>	<u>/</u>		<input type="checkbox"/> WITHIN RANGE	
<u>/</u>	<u>/</u>		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL READING		TEMPERATURE	CAL RANGE	TIME
(LOT #)	(EXP. DATE)	(CELSIUS)		
PRE-CAL READING / STANDARD				
<u>232.8</u>	<u>1228</u>	<u>23.88</u>	<input type="checkbox"/> WITHIN RANGE	<u>1106</u>
<u>228</u>	<u>1228</u>	<u>23.87</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1101</u>
<u>/</u>	<u>/</u>		<input type="checkbox"/> WITHIN RANGE	
<u>/</u>	<u>/</u>		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING		CAL RANGE	TIME
(LOT #)	(EXP. DATE)		
PRE-CAL READING / STANDARD			
<u>Baro: 1014.2 760.6 mmHg</u>		<input checked="" type="checkbox"/> WITHIN RANGE	<u>1054</u>
<u>Temp: 24.14 °C</u>		<input type="checkbox"/> WITHIN RANGE	
<u>Act: 8.40 mmHg</u>		<input type="checkbox"/> WITHIN RANGE	
<u>Calc: 8.4 mg/L</u>		<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL RANGE	TIME
(LOT #)	(EXP. DATE)		
PRE-CAL READING / STANDARD			
<u>0.00</u>	<u>10.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1055</u>
<u>1.05</u>	<u>11.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1058</u>
<u>10.86</u>	<u>10.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	<u>1057</u>
<u>/</u>	<u>/</u>	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input type="checkbox"/> AUTOGAL SOLUTION	<input type="checkbox"/> STANDARD SOLUTION(S)
(LOT #):	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
(EXP. DATE):	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	
<input type="checkbox"/> _____	
<input type="checkbox"/> _____	

(1) CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER

NOTES

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

<u>None</u>	<u>None</u>

SIGNED [Signature] DATE 6/1/22

CHECKED BY [Signature] DATE 6/6/22



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Wateree Station LF-CCR	MODEL: Aqua Troll 400	SAMPLER: JB / BM / AD
PROJECT NO.: 416559.0005.0000.2.2	SERIAL #: 884186	DATE: 6/1/22

PH CALIBRATION CHECK

PH 7	PH 4/10	CAL RANGE	TIME
(LOT #): 21380102 (EXP. DATE): 9/23	(LOT #): (EXP. DATE):		
PRE-CAL READING / STANDARD	PRE-CAL READING / STANDARD		
6.78 / 7.00	7.00 / 7.00	<input checked="" type="checkbox"/> WITHIN RANGE	1045
4.17 / 4.00	4.00 / 4.00	<input checked="" type="checkbox"/> WITHIN RANGE	1045
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL READING	TEMPERATURE	CAL RANGE	TIME
(LOT #): (EXP. DATE):	(°CELSIUS)		
PRE-CAL READING / STANDARD			
4.58 / 4.49	26.97	<input type="checkbox"/> WITHIN RANGE	
4.49 / 4.49	27.20	<input checked="" type="checkbox"/> WITHIN RANGE	1045
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL READING	TEMPERATURE	CAL RANGE	TIME
(LOT #): 21140142 (EXP. DATE): 4/23	(°CELSIUS)		
PRE-CAL READING / STANDARD			
223 / 228	23.21	<input type="checkbox"/> WITHIN RANGE	
228 / 228	23.22	<input checked="" type="checkbox"/> WITHIN RANGE	1045
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING	CAL RANGE	TIME
(mg/L)		
Baro: 769 mmHg Temp: 27°C Act: 7.8 mg/L Calc: 7.9 mg/L	<input checked="" type="checkbox"/> WITHIN RANGE	1045
	<input type="checkbox"/> WITHIN RANGE	
	<input type="checkbox"/> WITHIN RANGE	
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)	CAL RANGE	TIME
(LOT #): N/A (EXP. DATE):		
PRE-CAL READING / STANDARD	POST-CAL READING / STANDARD	
0.43 / 0.0	0.0 / 0.0	<input checked="" type="checkbox"/> WITHIN RANGE 1045
1.73 / 1.0	1.1 / 1.0	<input checked="" type="checkbox"/> WITHIN RANGE 1045
9.13 / 10.0	9.89 / 10.0	<input checked="" type="checkbox"/> WITHIN RANGE 1045
/	/	<input type="checkbox"/> WITHIN RANGE

COMMENTS

<input type="checkbox"/> AUTOCAL SOLUTION	<input type="checkbox"/> STANDARD SOLUTION (S)
(LOT #): 21140142 (EXP. DATE): 4/23	LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	CALIBRATION RANGES⁽¹⁾
<input checked="" type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER	

NOTES

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

None

None

SIGNED: DATE: 6/1/22

CHECKED BY: DATE: 6/6/22



June 15, 2022

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, Virginia 23219

Re: CCR Groundwater Monitoring - Level 1 Package
Work Order: 581919

Dear Kelly Hicks:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 03, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 1648.

Sincerely,

Meredith Boddiford
Project Manager

Purchase Order: 50149867
Enclosures



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Case Narrative

**Receipt Narrative
for
Dominion Energy (50149867)
SDG: 581919**

June 15, 2022

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on June 03, 2022 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

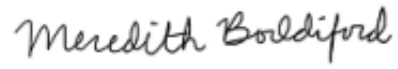
Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
581919001	MW-FGD-01-2022Q2
581919002	MW-FGD-02-2022Q2
581919003	MW-FGD-03-2022Q2
581919004	MW-FGD-04-2022Q2
581919005	MW-FGD-05-2022Q2
581919006	DU-WAT-CCR-FGD-22202
581919007	AS-FGD-01-2022Q2
581919008	AS-FGD-02-2022Q2
581919009	AS-FGD-03-2022Q2
581919010	FGD-Pond B-2022Q2
581919011	FBLK-WAT-CCR-FGD-22202

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: Metals.

A handwritten signature in cursive script that reads "Meredith Boddiford".

Meredith Boddiford
Project Manager

Chain of Custody and Supporting Documentation

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Meredith Boddiford

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Should this sample be considered: Yes, please supply isotopic info. No

Total number of containers: 1 2 3 4 5 6

Preservative Type (6): None Other

Comments: Note: extra sample is required for sample specific QC

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military (hhmm))	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radiactive (If Yes, please supply isotopic info.)	(7) Known or possible Hazards	Total number of containers	TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify:
MW-FGD-01-2022Q2	6-1-2022	1640	N	N	GW	N		1	
MW-FGD-02-2022Q2	6-1-2022	1115	N	N	GW	N		1	
MW-FGD-03-2022Q2	6-1-2022	1335	N	N	GW	N		1	
MW-FGD-04-2022Q2	6-1-2022	1415	N	N	GW	N		1	
MW-FGD-05-2022Q2	6-1-2022	1520	N	N	GW	N		2	
DU-WAT-CCR-FGD-22202	6-1-2022	—	FD	N	GW	N		1	see attached work order for details

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Date	Time
J. Bradley	6-3-2022	1530		

Fax Results: Yes No

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

Additional Remarks:

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

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

- 1.) Chain of Custody Number = Client Determined
- 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
- 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
- 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feecal, N=Nasal
- 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
- 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, IIX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
- 7.) **KNOWN OR POSSIBLE HAZARDS**
- | RCRA Metals | Characteristic Hazards | Listed Waste | Other |
|---|---|---|---|
| As = Arsenic
Ba = Barium
Cd = Cadmium
Cr = Chromium
Pb = Lead | FL = Flammable/ignitable
CO = Corrosive
RE = Reactive | LW = Listed Waste
(F, K, P and U-listed wastes.)
Waste code(s): | OT = Other / Unknown
(i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
Description: |
- TSCA Regulated
PCB = Polychlorinated biphenyls
- Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

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

GEL Work Order Number:
GEL Project Manager: Meredith Boddiford

Phone # 803-258-1528
 Fax #
 Send Results To: AReed@envstcd.com

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military (hh:mm))	QC Code (6)	Field Filtered (6)	Sample Matrix (6)	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
AS-FGD-01-2022Q2	6-1-2022	1525	N	N	GW	Radioactive (Yes, please supply isotopic info.)	1	1		Note: extra sample is required for sample specific QC
AS-FGD-02-2022Q2	6-1-2022	1135	N	N	GW		1			
AS-FGD-03-2022Q2	6-1-2022	1240	N	N	GW		1			
FGD-Pond B-2022Q2	6-2-2022	1615	N	N	WW		1			
FBI-K-WAT-CCR-FGD-22202	6-1-2022	1225	FB	N	AQ		1			see attached work order for details

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
Jacob Bradley	6-3-2022	[Signature]	6-3-22	1530

Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a 'Y' - for yes the sample was field filtered or 'N' - for no sample was not field filtered.

4.) Matrix Codes: DW=Drinking Water, WW=Surface Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5.) Sample Analysis Requested: Analytical method requested (i.e. 8560B, 6010B/7470A) and number of containers provided for each (i.e. 8560B - 3, 6010B/7470A - 1).

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

7.) **KNOWN OR POSSIBLE HAZARDS**

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

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: DMMN		SDG/AR/COC/Work Order: 581924		M.B	
Received By: TJR		Date Received: 6/3/22			
Enter one tracking number per line below. Enter courier if applicable and no tracking available.		IR temperature gun # IR2-20		Daily Calibration performed? <input checked="" type="radio"/> Y <input type="radio"/> N	
		Uncorrected temperature readings are to the 0.1 degree with final recorded temperatures rounded to the 0.5 degree. Provide individual container details when a cooler requiring 0 <= 60C is identified as out of specification.			
Courier		Uncorrected Temp: 1.2	IR Correction Factor: + / - |	Final Recorded Temp: 1.1 Within 0.0-6.0C? <input checked="" type="radio"/> Y <input type="radio"/> N	
		Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp: Within 0.0-6.0C? Y / N	
		Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp: Within 0.0-6.0C? Y / N	
		Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp: Within 0.0-6.0C? Y / N	
		Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp: Within 0.0-6.0C? Y / N	
		Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp: Within 0.0-6.0C? Y / N	
		Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp: Within 0.0-6.0C? Y / N	
Suspected Hazard Information		Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Hazard Class Shipped: UN#: UN2910 , Is the Radioactive Shipment Survey Compliant? Yes ___ No ___	
B) Did the client designate the samples are to be received as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.	
C) Did the RSO classify the samples as radioactive?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): _____ CPM / mR/hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	COC notation or hazard labels on containers equal client designation.	
E) Did the RSO identify possible hazards?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:	
Sample Receipt Criteria		Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
4	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
5	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
6	Samples received within holding time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests effected:
7	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
8	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
9	Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
10	Are sample containers identifiable as GEL provided by use of GEL labels?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)
Comments (Use Continuation Form if needed):					

Laboratory Certifications

List of current GEL Certifications as of 15 June 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122022-4
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Metals Analysis

Case Narrative

Metals
Technical Case Narrative
Dominion Energy
SDG #: 581919

Product: Determination of Metals by ICP-MS
Analytical Method: EPA 200.8 SC_NPDES
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2273815

Preparation Method: EPA 200.2
Preparation Procedure: GL-MA-E-016 REV# 18
Preparation Batch: 2273814

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
581919001	MW-FGD-01-2022Q2
581919002	MW-FGD-02-2022Q2
581919003	MW-FGD-03-2022Q2
581919004	MW-FGD-04-2022Q2
581919005	MW-FGD-05-2022Q2
581919006	DU-WAT-CCR-FGD-22202
581919007	AS-FGD-01-2022Q2
581919008	AS-FGD-02-2022Q2
581919009	AS-FGD-03-2022Q2
581919010	FGD-Pond B-2022Q2
581919011	FBLK-WAT-CCR-FGD-22202
1205107604	Method Blank (MB) ICP-MS
1205107605	Laboratory Control Sample (LCS)
1205107608	581919005(MW-FGD-05-2022Q2L) Serial Dilution (SD)
1205107611	581919010(FGD-Pond B-2022Q2L) Serial Dilution (SD)
1205107606	581919005(MW-FGD-05-2022Q2D) Sample Duplicate (DUP)
1205107609	581919010(FGD-Pond B-2022Q2D) Sample Duplicate (DUP)
1205107607	581919005(MW-FGD-05-2022Q2S) Matrix Spike (MS)
1205107610	581919010(FGD-Pond B-2022Q2S) Matrix Spike (MS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement

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

Technical Information

Sample Dilutions

Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range. Sample 581919010 (FGD-Pond B-2022Q2) was diluted to ensure that the analyte concentration was within the linear calibration range of the instrument.

Analyte	581919
	010
Boron	1000X

Miscellaneous Information

Additional Comments

All method-driven specifications are followed for these analyses except where client-specific SOW requirements are required to be met.

Certification Statement

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

GEL LABORATORIES LLC

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

Qualifier Definition Report for

DMNN001 Dominion Energy (50149867)

Client SDG: 581919 GEL Work Order: 581919

The Qualifiers in this report are defined as follows:

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

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature:



Name: Kristen Mizzell

Date: 15 JUN 2022

Title: Group Leader

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919001

BASIS: As Received

DATE COLLECTED 01-JUN-22

CLIENT ID: MW-FGD-01-2022Q2

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	7.96	ug/L	J	4.00	15.0	15.0	1	MS	BAJ	06/10/22 11:07	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919002

BASIS: As Received

DATE COLLECTED 01-JUN-22

CLIENT ID: MW-FGD-02-2022Q2

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	40.4	ug/L		4.00	15.0	15.0	1	MS	BAJ	06/10/22 11:08	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919003

BASIS: As Received

DATE COLLECTED 01-JUN-22

CLIENT ID: MW-FGD-03-2022Q2

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	14.6	ug/L	J	4.00	15.0	15.0	1	MS	BAJ	06/10/22 11:10	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919004

BASIS: As Received

DATE COLLECTED 01-JUN-22

CLIENT ID: MW-FGD-04-2022Q2

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	13.6	ug/L	J	4.00	15.0	15.0	1	MS	BAJ	06/10/22 11:12	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919005

BASIS: As Received

DATE COLLECTED 01-JUN-22

CLIENT ID: MW-FGD-05-2022Q2

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	26.0	ug/L		4.00	15.0	15.0	1	MS	BAJ	06/10/22 11:24	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919006

BASIS: As Received

DATE COLLECTED 01-JUN-22

CLIENT ID: DU-WAT-CCR-FGD-2220

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	41.2	ug/L		4.00	15.0	15.0	1	MS	BAJ	06/10/22 11:14	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919007

BASIS: As Received

DATE COLLECTED 01-JUN-22

CLIENT ID: AS-FGD-01-2022Q2

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	7.08	ug/L	J	4.00	15.0	15.0	1	MS	BAJ	06/10/22 11:16	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919008

BASIS: As Received

DATE COLLECTED 01-JUN-22

CLIENT ID: AS-FGD-02-2022Q2

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	14.8	ug/L	J	4.00	15.0	15.0	1	MS	BAJ	06/10/22 11:18	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919009

BASIS: As Received

DATE COLLECTED 01-JUN-22

CLIENT ID: AS-FGD-03-2022Q2

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	11.3	ug/L	J	4.00	15.0	15.0	1	MS	BAJ	06/10/22 11:34	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919010

BASIS: As Received

DATE COLLECTED 02-JUN-22

CLIENT ID: FGD-Pond B-2022Q2

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	84200	ug/L		4000	15000	15000	1000	MS	BAJ	06/10/22 11:42	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 581919

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:581919011

BASIS: As Received

DATE COLLECTED 01-JUN-22

CLIENT ID: FBLK-WAT-CCR-FGD-22

LEVEL: Low

DATE RECEIVED 03-JUN-22

MATRIX: AQ

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	4.00	ug/L	U	4.00	15.0	15.0	1	MS	BAJ	06/10/22 11:36	220610-1	2273815

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2273815	2273814	EPA 200.2	50	mL	50	mL	06/06/22	CD3

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 581919

Contract: DMNN00101

Lab Code: GEL

Instrument ID: ICPMS12

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01	Boron	99.5	ug/L	100	ug/L	99.5	90.0 – 110.0	MS	10-JUN-22 10:49	220610-1
CCV01	Boron	94	ug/L	100	ug/L	94	90.0 – 110.0	MS	10-JUN-22 10:59	220610-1
CCV02	Boron	96.6	ug/L	100	ug/L	96.6	90.0 – 110.0	MS	10-JUN-22 11:20	220610-1
CCV03	Boron	97.2	ug/L	100	ug/L	97.2	90.0 – 110.0	MS	10-JUN-22 11:38	220610-1
CCV04	Boron	98	ug/L	100	ug/L	98	90.0 – 110.0	MS	10-JUN-22 11:56	220610-1

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS
-2b-
CRDL Standard for ICP & ICPMS

SDG No: 581919

Contract: DMNN00101

Lab Code: GEL

Instrument ID: ICPMS12

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01	Boron	14.5	ug/L	15	ug/L	96.9	70.0 – 130.0	MS	10-JUN-22 10:53	220610-1
CRDL02	Boron	15.2	ug/L	15	ug/L	101.3	70.0 – 130.0	MS	10-JUN-22 11:50	220610-1

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 581919

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run</u>
ICB01	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	10-JUN-22 10:51	220610-1
CCB01	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	10-JUN-22 11:01	220610-1
CCB02	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	10-JUN-22 11:22	220610-1
CCB03	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	10-JUN-22 11:40	220610-1
CCB04	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	10-JUN-22 11:58	220610-1

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 581919
Contract: DMNN00101
Matrix: GW

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M*</u>	<u>MDL</u>	<u>RDL</u>
1205107604	Boron	4.00	ug/L	+/-7.5	U	MS	4.00	15.0

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS
-4-
Interference Check Sample

SDG No: 581919

Contract: DMNN00101

Lab Code: GEL

Instrument: ICPMS12

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Boron	2.08	ug/L					10-JUN-22 10:55	220610-1
ICSAB01	Boron	19.8	ug/L	20	ug/L	99.1	80.0 - 120.0	10-JUN-22 10:57	220610-1
ICSA02	Boron	1.74	ug/L					10-JUN-22 11:52	220610-1
ICSAB02	Boron	20.6	ug/L	20	ug/L	103	80.0 - 120.0	10-JUN-22 11:54	220610-1

METALS

-5a-

Matrix Spike Summary

SDG NO. 581919 Client ID: MW-FGD-05-2022Q2S

Contract: DMNN00101 Level: Low

Matrix: GROUND WATER % Solids:

Sample ID: 581919005 Spike ID: 1205107607

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M*</u>
Boron	ug/L	75-125	122		26.0		100	95.8		MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

-5a-

Matrix Spike Summary

SDG NO. 581919 Client ID: FGD-Pond B-2022Q2S

Contract: DMNN00101 Level: Low

Matrix: GROUND WATER % Solids:

Sample ID: 581919010 Spike ID: 1205107610

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M*</u>
Boron	ug/L		86000		84200		100	1810	N/A	MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

Metals
-6-
Duplicate Sample Summary

SDG No.: 581919

Lab Code: GEL

Contract: DMNN00101

Client ID: MW-FGD-05-2022Q2D

Matrix: GROUND WATER

Level: Low

Sample ID: 581919005

Duplicate ID: 1205107606

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M*
Boron	ug/L	+/-30	26.0		26.0		.2		MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

Metals
-6-
Duplicate Sample Summary

SDG No.: 581919

Lab Code: GEL

Contract: DMNN00101

Client ID: FGD-Pond B-2022Q2D

Matrix: GROUND WATER

Level: Low

Sample ID: 581919010

Duplicate ID: 1205107609

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M*
Boron	ug/L	+/-20%	84200		85300		1.32		MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 581919

Contract: DMNN00101

Aqueous LCS Source: Enviromental Express

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M*</u>
1205107605	Boron	ug/L	100	104		104	85-115	MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 581919 Client ID: MW-FGD-05-2022Q2L

Contract: DMNN00101

Matrix: LIQUID Level: Low

Sample ID: 581919005 Serial Dilution ID: 1205107608

<u>Analyte</u>	<u>Initial Value</u> ug/L	<u>C</u>	<u>Serial Value</u> ug/L	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M*</u>
Boron	26		35.3	B	35.751			MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 581919 Client ID: FGD-Pond B-2022Q2L

Contract: DMNN00101

Matrix: LIQUID Level: Low

Sample ID: 581919010 Serial Dilution ID: 1205107611

<u>Analyte</u>	<u>Initial Value</u> ug/L	<u>C</u>	<u>Serial Value</u> ug/L	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M*</u>
Boron	84.2		92.2		9.466			MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 581919

Method Type: MS

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number 2273814							
1205107604	MB for batch 2273814	MB	G	06-JUN-22	50mL	50mL	
1205107605	LCS for batch 2273814	LCS	G	06-JUN-22	50mL	50mL	
1205107607	MW-FGD-05-2022Q2S	MS	G	06-JUN-22	50mL	50mL	
1205107610	FGD-Pond B-2022Q2S	MS	G	06-JUN-22	50mL	50mL	
1205107606	MW-FGD-05-2022Q2D	DUP	G	06-JUN-22	50mL	50mL	
1205107609	FGD-Pond B-2022Q2D	DUP	G	06-JUN-22	50mL	50mL	
581919001	MW-FGD-01-2022Q2	SAMPLE	G	06-JUN-22	50mL	50mL	
581919002	MW-FGD-02-2022Q2	SAMPLE	G	06-JUN-22	50mL	50mL	
581919003	MW-FGD-03-2022Q2	SAMPLE	G	06-JUN-22	50mL	50mL	
581919004	MW-FGD-04-2022Q2	SAMPLE	G	06-JUN-22	50mL	50mL	
581919005	MW-FGD-05-2022Q2	SAMPLE	G	06-JUN-22	50mL	50mL	
581919006	DU-WAT-CCR-FGD-22202	SAMPLE	G	06-JUN-22	50mL	50mL	
581919007	AS-FGD-01-2022Q2	SAMPLE	G	06-JUN-22	50mL	50mL	
581919008	AS-FGD-02-2022Q2	SAMPLE	G	06-JUN-22	50mL	50mL	
581919009	AS-FGD-03-2022Q2	SAMPLE	G	06-JUN-22	50mL	50mL	
581919010	FGD-Pond B-2022Q2	SAMPLE	G	06-JUN-22	50mL	50mL	
581919011	FBLK-WAT-CCR-FGD-22202	SAMPLE	G	06-JUN-22	50mL	50mL	

Raw Data

ICPMS #12 Daily Performance

Sample ID: Sample

Sample Date/Time: Friday, June 10, 2022 09:18:51

Sample Description:

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\Daily 2.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\Sample.11205

Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\default2.tun

Dual Detector Mode: Pulse

Acquisition Date/Time&Time Zone: Friday, June 10, 2022 09:18:51 Eastern Daylight Time

Number of Replicates: 5

Analyst: BAJ

Summary

Analyte	Mass	Meas. Intens.	Mean	Net Intens.	Mean	Net Intens.	SD	Net Intens.	RSD
Be	9.0	46543.1		46543.097		239.218		0.5	
Mg	24.0	236835.0		236834.981		1839.962		0.8	
Co	58.9	78113.7		78113.730		168.140		0.2	
Rh	102.9	89610.4		89610.430		516.537		0.6	
In	114.9	122562.1		122562.057		244.464		0.2	
Pb	208.0	81172.1		81172.071		668.323		0.8	
[> Ba	137.9	99780.9		99780.862		270.792		0.3	
[Ba++	69.0	1368.6		0.014		0.000		1.2	
[> Ce	139.9	109316.1		109316.062		451.535		0.4	
[CeO	155.9	1777.6		0.016		0.000		1.6	
Bkgd	220.0	0.4		0.400		0.454		113.5	

Current Conditions

C Val	Description
1.00	Standard - Nebulizer Gas Flow STD/KED [NEB]
1.20	Standard - Auxiliary Gas Flow
18.00	Standard - Plasma Gas Flow
-12.00	Standard - Deflector Voltage
1600.00	Standard - ICP RF Power
-1650.00	Standard - Analog Stage Voltage
900.00	Standard - Pulse Stage Voltage
0.00	Standard - Quadrupole Rod Offset STD [QRO]
-16.00	Standard - Cell Rod Offset STD [CRO]
8.00	Standard - Discriminator Threshold
-12.00	Standard - Cell Entrance/Exit Voltage STD
-12.50	Helium KED - KED Mode QRO
-16.00	Helium KED - KED Mode CRO
-9.00	Helium KED - KED Mode Cell Entrance Voltage
-31.00	Helium KED - KED Mode Cell Exit Voltage
475.00	Helium KED - KED Mode Axial Field Voltage
0.00	Helium KED - KED RPa
0.25	Helium KED - KED RPq
3.00	Helium KED - Cell Gas A

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9.012	41	-15.5	15620.5
Mg	23.985	41	-15.0	97705.0
In	114.904	41	-10.5	42543.3
Ce	139.905	41	-9.5	42860.2
Pb	207.977	41	-6.5	37042.0
U	238.050	41	-5.5	60088.1

ICPMS #12 Instrument Tuning Report

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res DAC	Meas. Pk. Width
Be	9.0	9.0	1628	2062	0.730
Mg	24.0	24.0	4621	2066	0.705
Mg	25.0	25.0	4815	2063	0.711
Mg	26.0	26.0	5023	2065	0.720
Co	58.9	58.9	11591	2065	0.726
Rh	102.9	102.9	20377	2067	0.733
In	114.9	114.9	22781	2069	0.717
Ce	139.9	139.9	27776	2072	0.723
Pb	206.0	206.0	40974	2068	0.738
Pb	207.0	207.0	41198	2082	0.714
Pb	208.0	208.0	41368	2068	0.693
U	238.1	238.0	47393	2074	0.715

ICPMS #12 - Summary Report

Sample ID: Cal Blank
Sample Date/Time: Friday, June 10, 2022 10:43:21
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\Cal Blank.1876
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11		ug/L		497.009	
45		ug/L		142023.230		

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11							
	45								

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: Standard 1
Sample Date/Time: Friday, June 10, 2022 10:45:19
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\Standard 1.1877
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	20.000	ug/L	3.453	2121.491	0.012
45		ug/L		141089.009	141089.009	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std	% Recovery	Int	Std	% Recovery	Spike	% Reco	Dilution	% D	DDuplicate	Rel.	% Difference
[	B	11													
Sc	45														

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: Standard 2
Sample Date/Time: Friday, June 10, 2022 10:47:17
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\Standard 2.1878
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	199.931	ug/L	1.801	16176.155	0.112
45		ug/L		140617.005	140617.005	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std	% Recovery	Int	Std	% Recovery	Spike	% Reco	Dilution	% D	DDuplicate	Rel.	% Difference
[B		11													
	45														

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 1
Sample Date/Time: Friday, June 10, 2022 10:49:16
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 1.1879
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	99.455	ug/L	2.762	8400.803	0.055
45		ug/L		142459.638	142459.638	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
[B		11		99.455							
	45				100.31						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 2
Sample Date/Time: Friday, June 10, 2022 10:51:15
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 2.1880
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	1.184	ug/L	56.671	577.012	0.001
45		ug/L		138624.737	138624.737	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
[B		11									
	45				97.61						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Friday, June 10, 2022 10:53:12
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 3.1881
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	14.531	ug/L	1.983	1657.763	0.008
45		ug/L		142833.904	142833.904	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
[B		11		96.871							
	45				100.57						

QC Out of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Friday, June 10, 2022 10:55:10
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 4.1882
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	2.078	ug/L	3.399	605.013	0.001
45		ug/L		129883.325	129883.325	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
[B		11									
	45				91.45						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Friday, June 10, 2022 10:57:08
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 5.1883
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	19.820	ug/L	5.222	1850.453	0.011
45		ug/L		127219.417	127219.417	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
[B		11		99.101							
	45				89.58						

QC Out of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, June 10, 2022 10:59:06
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 6.1884
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
B	11	94.037	ug/L	2.638	8105.299	0.052
Sc	45		ug/L		144864.519	144864.519

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
B	11			94.037							
Sc	45					102.00					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, June 10, 2022 11:01:05
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 7.1885
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
B	11	0.337	ug/L	66.102	511.009	0.000
Sc	45		ug/L		138617.323	138617.323

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
B	11										
Sc	45					97.60					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 1205107604
Sample Date/Time: Friday, June 10, 2022 11:03:04
Sample Type: Sample
Sample Description: QC A 2008 MB
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\1205107604.1886
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	0.635	ug/L	43.886	517.343	0.000
45		ug/L		134279.837	134279.837	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike %	Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11									
	45				94.55						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 1205107605
Sample Date/Time: Friday, June 10, 2022 11:05:03
Sample Type: Sample
Sample Description: QC A 2008 LCS
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\1205107605.1887
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	103.564	ug/L	3.095	8537.218	0.058
45		ug/L		139338.599	139338.599	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike %	Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11									
	45				98.11						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919001
Sample Date/Time: Friday, June 10, 2022 11:07:01
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919001.1888
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	7.957	ug/L	10.148	1095.709	0.004
45		ug/L		138014.001	138014.001	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[	B	11							
Sc	45			97.18					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919002
Sample Date/Time: Friday, June 10, 2022 11:08:59
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919002.1889
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	40.356	ug/L	4.206	3661.136	0.023
45		ug/L		140768.856	140768.856	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[	B	11							
Sc	45			99.12					

QC Out of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919003
Sample Date/Time: Friday, June 10, 2022 11:10:58
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919003.1890
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	14.560	ug/L	7.834	1626.093	0.008
45		ug/L		139939.413	139939.413	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[	B	11							
Sc	45			98.53					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919004
Sample Date/Time: Friday, June 10, 2022 11:12:56
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919004.1891
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	13.623	ug/L	4.511	1564.752	0.008
45		ug/L		140988.322	140988.322	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11							
	45			99.27					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919006
Sample Date/Time: Friday, June 10, 2022 11:14:55
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919006.1892
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	41.188	ug/L	1.504	3677.140	0.023
45		ug/L		138890.952	138890.952	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11							
	45			97.79					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919007
Sample Date/Time: Friday, June 10, 2022 11:16:53
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919007.1893
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	7.084	ug/L	4.384	1050.705	0.004
45		ug/L		141001.477	141001.477	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[	B	11							
Sc	45			99.28					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919008
Sample Date/Time: Friday, June 10, 2022 11:18:52
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919008.1894
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	14.777	ug/L	7.172	1646.428	0.008
45		ug/L		140264.729	140264.729	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[	B	11							
Sc	45			98.76					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 8
Sample Date/Time: Friday, June 10, 2022 11:20:52
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 8.1895
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	96.573	ug/L	2.308	8013.581	0.054
45		ug/L		139686.977	139686.977	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
[B		11		96.573							
	45				98.36						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Friday, June 10, 2022 11:22:50
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 9.1896
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
B	11	0.360	ug/L	156.856	515.676	0.000
Sc	45		ug/L		139413.656	139413.656

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
B	11										
Sc	45					98.16					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919005
Sample Date/Time: Friday, June 10, 2022 11:24:49
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919005.1897
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	25.985	ug/L	4.616	2513.555	0.014
45		ug/L		139713.597	139713.597	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11							
	45			98.37					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 1205107606

Sample Date/Time: Friday, June 10, 2022 11:26:47

Sample Type: Sample

Sample Description: QC A 2008 DUP

Number of Replicates: 3

Batch ID: 2273815|1|baj

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth

Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\1205107606.1898

Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	26.037	ug/L	6.609	2424.539	0.015
45		ug/L		134657.388	134657.388	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11							
	45			94.81					

QC Out of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC action taken

Sample ID: 1205107606

Report Date/Time: Friday, June 10, 2022 11:26:57

Page 1

ICPMS #12 - Summary Report

Sample ID: 1205107607
Sample Date/Time: Friday, June 10, 2022 11:28:46
Sample Type: Sample
Sample Description: QC A 2008 MS
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\1205107607.1899
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	121.831	ug/L	3.468	9792.022	0.068
45		ug/L		137073.637	137073.637	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike %	Reco	Dilution %	DDuplicate	Rel. % Difference
[	B	11									
Sc	45				96.51						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 1205107608
Sample Date/Time: Friday, June 10, 2022 11:32:43
Sample Type: Sample
Sample Description: QC A 2008 SDILT
Number of Replicates: 3
Batch ID: 2273815|5|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\1205107608.1901
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	7.055	ug/L	6.409	1011.036	0.004
45		ug/L		136007.763	136007.763	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike %	Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11									
	45				95.76						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919009
Sample Date/Time: Friday, June 10, 2022 11:34:42
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919009.1902
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	11.320	ug/L	7.657	1383.734	0.006
45		ug/L		140993.690	140993.690	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[	B	11							
Sc	45			99.28					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919011
Sample Date/Time: Friday, June 10, 2022 11:36:41
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919011.1903
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	2.894	ug/L	15.198	636.348	0.002
45		ug/L		124397.317	124397.317	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11							
	45			87.59					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 8
Sample Date/Time: Friday, June 10, 2022 11:38:41
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 8.1904
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
B	11	97.166	ug/L	3.408	7927.533	0.054
Sc	45		ug/L		137411.424	137411.424

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
B	11			97.166							
Sc	45					96.75					

QC Out of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 9
Sample Date/Time: Friday, June 10, 2022 11:40:39
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 9.1905
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	0.218	ug/L	94.240	507.009	0.000
45		ug/L		140067.020	140067.020	

Calibration

Analyte	MassCurve Type	Correlation Coefficient
B	11Linear Thru Zero	1.0000
Sc	45Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
[B		11									
	45				98.62						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 581919010
Sample Date/Time: Friday, June 10, 2022 11:42:39
Sample Type: Sample
Sample Description: DMNN 2008
Number of Replicates: 3
Batch ID: 2273815|1000|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\581919010.1906
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	84.232	ug/L	0.491	6535.828	0.047
45		ug/L		129447.526	129447.526	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11							
	45			91.15					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 1205107609
Sample Date/Time: Friday, June 10, 2022 11:44:37
Sample Type: Sample
Sample Description: QC A 2008 DUP
Number of Replicates: 3
Batch ID: 2273815|1000|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\1205107609.1907
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	85.348	ug/L	2.383	6944.354	0.048
45		ug/L		135876.499	135876.499	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC	Std % Recovery	Int Std % Recovery	Spike % Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11							
	45			95.67					

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 1205107610
Sample Date/Time: Friday, June 10, 2022 11:46:36
Sample Type: Sample
Sample Description: QC A 2008 MS
Number of Replicates: 3
Batch ID: 2273815|1000|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\1205107610.1908
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	86.040	ug/L	1.493	6959.695	0.048
45		ug/L		135139.927	135139.927	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike %	Reco	Dilution %	DDuplicate	Rel. % Difference
[	B	11									
Sc	45				95.15						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: 1205107611
Sample Date/Time: Friday, June 10, 2022 11:48:34
Sample Type: Sample
Sample Description: QC A 2008 SDILT
Number of Replicates: 3
Batch ID: 2273815|5000|baj
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\1205107611.1909
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	18.441	ug/L	6.831	1690.100	0.010
45		ug/L		122659.814	122659.814	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike %	Reco	Dilution %	DDuplicate	Rel. % Difference
[B		11									
	45				86.37						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 3
Sample Date/Time: Friday, June 10, 2022 11:50:34
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 3.1910
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	15.195	ug/L	4.728	1614.091	0.008
45		ug/L		134781.499	134781.499	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
[B		11		101.297							
	45				94.90						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 4
Sample Date/Time: Friday, June 10, 2022 11:52:32
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 4.1911
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	1.736	ug/L	20.808	529.010	0.001
45		ug/L		118369.478	118369.478	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
[B		11									
	45				83.35						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits	Message
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QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 5
Sample Date/Time: Friday, June 10, 2022 11:54:31
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 5.1912
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
B	11	20.605	ug/L	2.453	1801.780	0.011
Sc	45		ug/L		120174.386	120174.386

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
B	11			103.026							
Sc	45					84.62					

QC Out of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 6
Sample Date/Time: Friday, June 10, 2022 11:56:29
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 6.1913
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
B	11	97.951	ug/L	1.668	7570.005	0.055
Sc	45		ug/L		130209.102	130209.102

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
B	11			97.951							
Sc	45					91.68					

QC Out of Limits

Measurement Type Analyte Mass Out of Limits Message

QC Action

QC Action Line: No QC action taken

ICPMS #12 - Summary Report

Sample ID: QC Std 7
Sample Date/Time: Friday, June 10, 2022 11:58:28
Sample Type: Sample
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8 dmnn b.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\220524\QC Std 7.1914
Analyst: BAJ

Concentration Results

Summary

Analyte	Mass	Conc. Mean	Report Unit	Conc. RSD	Meas. Intens. Mean	Net Intens. Mean
[B	11	0.399	ug/L	7.209	464.008	0.000
45		ug/L		124665.997	124665.997	

Calibration

Analyte	Mass	Curve Type	Correlation Coefficient
B	11	Linear Thru Zero	1.0000
Sc	45	Linear Thru Zero	

QC Calculated Values

Inte	Analyte	Mass	QC Std	% Recovery	Int Std	% Recovery	Spike	% Reco	Dilution	% DDuplicate	Rel. % Difference
[B		11									
	45				87.78						

QC Out of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
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QC Action

QC Action Line: No QC action taken

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

**Wateree Power Station Groundwater Sampling
Samples Collected between: 6/1/2022 and 6/3/2022**

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

581919

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
MW-FGD-01-2022Q2	MW-FGD-01	N	EPA 200.8	Boron	T	7.96	J	RL	4.00	15.0		ug/L
MW-FGD-03-2022Q2	MW-FGD-03	N	EPA 200.8	Boron	T	14.6	J	RL	4.00	15.0		ug/L
MW-FGD-04-2022Q2	MW-FGD-04	N	EPA 200.8	Boron	T	13.6	J	RL	4.00	15.0		ug/L
AS-FGD-01-2022Q2	AS-FGD-01	N	EPA 200.8	Boron	T	7.08	J	RL	4.00	15.0		ug/L
AS-FGD-02-2022Q2	AS-FGD-02	N	EPA 200.8	Boron	T	14.8	J	RL	4.00	15.0		ug/L
AS-FGD-03-2022Q2	AS-FGD-03	N	EPA 200.8	Boron	T	11.3	J	RL	4.00	15.0		ug/L

Data Qualifiers

U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.

Reason Codes and Explanations

BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.
H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits

MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results
T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Lab Sample ID	581919001
Sys Sample Code	MW-FGD-01-2022Q2
Sample Name	MW-FGD-01-2022Q2
Sample Date	6/1/2022 4:40:00 PM
Location	WAT-MW-FGD-01 / MW-FGD-01
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	7.96	J	RL		4.00	4.00	15.0	Y	Yes	1	NA

Lab Sample ID	581919002
Sys Sample Code	MW-FGD-02-2022Q2
Sample Name	MW-FGD-02-2022Q2
Sample Date	6/1/2022 11:15:00 AM
Location	WAT-MW-FGD-02 / MW-FGD-02
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	40.4				4.00	4.00	15.0	Y	Yes	1	NA

Lab Sample ID	581919003
Sys Sample Code	MW-FGD-03-2022Q2
Sample Name	MW-FGD-03-2022Q2
Sample Date	6/1/2022 1:35:00 PM
Location	WAT-MW-FGD-03 / MW-FGD-03
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	14.6	J	RL		4.00	4.00	15.0	Y	Yes	1	NA

Lab Sample ID	581919004
Sys Sample Code	MW-FGD-04-2022Q2
Sample Name	MW-FGD-04-2022Q2
Sample Date	6/1/2022 2:15:00 PM
Location	WAT-MW-FGD-04 / MW-FGD-04
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	13.6	J	RL		4.00	4.00	15.0	Y	Yes	1	NA

Lab Sample ID	581919005
Sys Sample Code	MW-FGD-05-2022Q2
Sample Name	MW-FGD-05-2022Q2
Sample Date	6/1/2022 3:20:00 PM
Location	WAT-MW-FGD-05 / MW-FGD-05
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	26.0				4.00	4.00	15.0	Y	Yes	1	NA

Lab Sample ID	581919006
Sys Sample Code	DU-WAT-CCR-FGD-22202
Sample Name	DU-WAT-CCR-FGD-22202
Sample Date	6/1/2022 12:00:00 AM
Location	WAT-MW-FGD-02 / MW-FGD-02
Sample Type	FD
Matrix	GW
Parent Sample	MW-FGD-02-2022Q2

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	41.2				4.00	4.00	15.0	Y	Yes	1	NA

Lab Sample ID	581919007
Sys Sample Code	AS-FGD-01-2022Q2
Sample Name	AS-FGD-01-2022Q2
Sample Date	6/1/2022 3:25:00 PM
Location	WAT-AS-FGD-01 / AS-FGD-01
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	7.08	J	RL		4.00	4.00	15.0	Y	Yes	1	NA

Lab Sample ID	581919008
Sys Sample Code	AS-FGD-02-2022Q2
Sample Name	AS-FGD-02-2022Q2
Sample Date	6/1/2022 11:35:00 AM
Location	WAT-AS-FGD-02 / AS-FGD-02
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	14.8	J	RL		4.00	4.00	15.0	Y	Yes	1	NA

Lab Sample ID	581919009
Sys Sample Code	AS-FGD-03-2022Q2
Sample Name	AS-FGD-03-2022Q2
Sample Date	6/1/2022 12:40:00 PM
Location	WAT-AS-FGD-03 / AS-FGD-03
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	11.3	J	RL		4.00	4.00	15.0	Y	Yes	1	NA

Lab Sample ID	581919010
Sys Sample Code	FGD-POND B-2022Q2
Sample Name	FGD-Pond B-2022Q2
Sample Date	6/2/2022 4:15:00 PM
Location	FGD POND B / FGD POND B
Sample Type	N
Matrix	WW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	84200				4000	4000	15000	Y	Yes	100	NA

Lab Sample ID	581919011
Sys Sample Code	FBLK-WAT-CCR-FGD-22202
Sample Name	FBLK-WAT-CCR-FGD-22202
Sample Date	6/1/2022 12:25:00 PM
Location	WAT-CCRFGD-FB / Field Blank
Sample Type	FB
Matrix	AQ
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U			4.00	4.00	15.0	N	Yes	1	NA

Appendix D
Second Semiannual Detection Monitoring
Program Event Field Data Sheets, Laboratory
Reports, and Data Validation Forms

Date(s) Measured: 9.6.22

Well ID	Well Diameter (inches)	Well Total Depth (ft BTOC)	Well Completion	Screen length (ft)	Depth to Water (ft below TOC)	Pump Type
MW-FGD-01	2	30.10 30.21	Stickup	10	25.28 25.28	Peristaltic
MW-FGD-02	2	21.21 ✓	Stickup	10	16.60	Peristaltic
MW-FGD-03	2	20.93 ✓	Stickup	10	18.08	Peristaltic
MW-FGD-04	2	21.35 ✓	Stickup	10	16.23	Peristaltic
MW-FGD-05	2	19.20 19.22	Stickup	10	16.13	Peristaltic
AS-FGD-01	2	25.87 25.91	Stickup	10	17.19	Peristaltic
AS-FGD-02	2	25.45 25.47	Stickup	10	16.12	Peristaltic
AS-FGD-03	2	26.36 26.39	Stickup	10	15.07	Peristaltic
MW-AP-01A	2	23.82	Stickup	10	15.01	Peristaltic

Measure well TD from below TOC once sample collected.

MW-BG-73	2	23.38	Stickup	10	9.72	Peristaltic
AS-LF-03	2	38.07	Stickup	10	28.01	Water Level
MW-LF-11	2	30.25	Stickup	10	22.72	Water Level
MW-LF-10	2	27.40	Stickup	10	19.61	Water Level



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>BJM</u>	DATE: <u>9.7.22</u>
	BY: <u>AI</u>	DATE: <u>9-15-20</u>

SAMPLE ID: MW-FGD-01	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1415</u>	DATE: <u>9.7.22</u>	SAMPLE	TIME: <u>1450</u>	DATE: <u>9.7.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER	PH: <u>4.30</u> SU		CONDUCTIVITY: _____ umhos/cm		
DEPTH TO WATER: <u>25.28</u> T/ PVC	ORP: <u>168.6</u> mV		DO: <u>4.46</u> mg/L		
DEPTH TO BOTTOM: <u>30.10</u> T/ PVC <u>30.21</u>	TURBIDITY: <u>0.85</u> NTU				
WELL VOLUME: _____ LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: <u>20.66</u> °C		OTHER: _____		
VOLUME REMOVED: <u>1.3</u> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: <u>clear</u>		ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FILTRATE COLOR: _____		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS: <u>Post turb: 0.66</u>				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1420	170	4.23	47.30	172.6	3.29	2.72	25.91	25.30	INITIAL
1425	|	4.29	46.96	169.8	3.97	1.37	21.25	|	
1430	|	4.30	45.64	169.1	4.14	0.80	20.93	|	
1435	|	4.33	45.01	167.2	4.22	0.99	20.94	|	
1440	|	4.35	44.51	166.5	4.31	0.94	20.97	|	
1445	|	4.33	43.82	167.1	4.42	0.70	20.83	|	
1450	|	4.30	43.90	168.6	4.46	0.85	20.66	|	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>AGM</u>	DATE: <u>9.7.22</u> BY: <u>JAY</u> DATE: <u>9/15/22</u>

SAMPLE ID: MW-FGD-02	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>0957</u>	DATE: <u>9.7.22</u>	SAMPLE	TIME: <u>1030</u>	DATE: <u>9.7.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER	PH: <u>4.51</u> SU	CONDUCTIVITY: <u>69.52</u> umhos/cm	ORP: <u>55.9</u> mV	DO: <u>1.95</u> mg/L	
DEPTH TO WATER: <u>16.60</u> T/ PVC	TURBIDITY: <u>1.99</u> NTU		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
DEPTH TO BOTTOM: <u>21.21</u> ✓ T/ PVC	TEMPERATURE: <u>23.99</u> °C	OTHER: _____			
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: <u>clear</u>	ODOR: <u>none</u>			
VOLUME REMOVED: <u>0.8</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	FILTRATE COLOR: _____ FILTRATE ODOR: _____			
COLOR: <u>clear</u> ODOR: <u>none</u>	QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____				
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER	COMMENTS: <u>Post turb: 1.78</u>				

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1000	105	4.50	86.80	56.5	2.76	19.0	25.76	16.65	INITIAL
1005	}	4.50	69.08	53.3	2.07	6.19	23.63	}	
1010		4.50	69.31	54.1	2.05	3.79	23.61		
1015		4.51	69.90	53.3	2.01	2.78	23.68		
1020		4.51	69.48	54.7	1.97	2.26	23.71		
1025		4.52	69.75	55.0	1.97	1.98	23.90		
1030		4.51	69.52	55.9	1.95	1.99	23.99		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
2	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>BJM</u> DATE: <u>9.7.22</u>	BY: <u>JAY</u> DATE: <u>9/15/22</u>

SAMPLE ID: MW-FGD-03	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> VV <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>0950</u>	DATE: <u>9.7.22</u>	SAMPLE	TIME: <u>1120</u>	DATE: <u>9.7.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.81</u> SU	CONDUCTIVITY: <u>79.44</u> umhos/cm	
DEPTH TO WATER: <u>18.08</u> T/ PVC			ORP: <u>137.6</u> mV	DO: <u>4.06</u> mg/L	
DEPTH TO BOTTOM: <u>20.93</u> ✓ T/ PVC			TURBIDITY: <u>10.64</u> NTU		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: <u>2.0</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>25.90</u> °C	OTHER: _____	
COLOR: <u>hazy</u> ODOR: <u>none</u>			COLOR: <u>clear</u>	ODOR: <u>none</u>	
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input checked="" type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
			COMMENTS: <u>Post turb: 8.33</u>		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
0955	90	4.56	81.75	118.2	3.79	138	26.70	18.45	INITIAL
1000		4.51	85.72	117.3	3.61	59.6	25.01	18.82	
1005		4.47	86.24	115.5	3.55	30.9	24.65	18.90	
1010		4.55	80.02	115.3	3.47	32.7	25.03	18.95	
1025		4.71	76.69	120.1	3.65	8.38	25.70	19.10	
1030		4.72	76.71	119.7	3.70	6.15	25.70	19.12	
1035		4.71	72.46	120.5	3.80	12.69	25.89	19.14	
1110		4.83	79.42	133.7	4.06	9.88	25.96	19.43	
1115		4.81	79.43	135.3	4.04	10.01	25.93	19.48	
1120		4.81	79.44	137.6	4.06	10.64	25.90	19.52	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
2	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>BJM</u> DATE: <u>9.7.22</u>	BY: <u>JAV</u> DATE: <u>9/15/22</u>

SAMPLE ID: MW-FGD-04	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> VV <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1210</u>	DATE: <u>9.7.22</u>	SAMPLE	TIME: <u>1245</u>	DATE: <u>9.7.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER	PH: <u>4.04</u> SU		CONDUCTIVITY: <u>59.27</u> umhos/cm		
DEPTH TO WATER: <u>16.23</u> T/ PVC	ORP: <u>158.7</u> mV		DO: <u>3.65</u> mg/L		
DEPTH TO BOTTOM: <u>21.35</u> T/ PVC	TURBIDITY: <u>0.86</u> NTU		<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	TEMPERATURE: <u>25.68</u> °C		OTHER: _____		
VOLUME REMOVED: <u>1.8</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS	COLOR: <u>clear</u>		ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>	FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FILTRATE COLOR: _____ FILTRATE ODOR: _____		
TURBIDITY <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY	DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER		COMMENTS: <u>Post turb: 0.71</u>		
QC SAMPLE: <input checked="" type="checkbox"/> MS/MSD <u>Apr III</u> <input type="checkbox"/> DUP- <u>22302</u>					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1215	230	4.29	44.50	141.9	3.45	7.78	31.61	16.26	INITIAL
1220	}	4.03	51.43	148.0	3.96	9.95	27.29	16.27	
1225		4.08	54.22	146.5	3.81	6.89	26.69	16.29	
1230		4.08	55.58	150.0	3.78	5.15	26.39	16.30	
1235		4.04	58.72	156.2	3.53	1.61	25.78		
1240		4.03	58.96	157.1	3.66	0.98	25.71		
1245		4.04	59.27	158.7	3.65	0.86	25.68		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
2	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	
				<input type="checkbox"/> Y	<input type="checkbox"/> N						<input type="checkbox"/> Y	<input type="checkbox"/> N	

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>AGM</u>	DATE: <u>9.7.22</u>
	BY: <u>JAY</u>	DATE: <u>9/15/22</u>

SAMPLE ID: MW-FGD-05	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1418</u>	DATE: <u>9.7.22</u>	SAMPLE	TIME: <u>1505</u>	DATE: <u>9.7.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.93</u> SU	CONDUCTIVITY: <u>168.18</u> umhos/cm	
DEPTH TO WATER: <u>16.13</u> T/ PVC			ORP: <u>530.1</u> mV	DO: <u>2.31</u> mg/L	
DEPTH TO BOTTOM: 19.20 T/ PVC <u>19.22</u>			TURBIDITY: <u>2.56</u> NTU		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: <u>0.8</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>27.11</u> °C		
COLOR: <u>clear</u>			OTHER: _____		
ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input type="checkbox"/> NONE <input checked="" type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			FILTRATE ODOR: _____		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP- _____		
			COMMENTS: <u>Post turb: 2.43</u>		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
<u>1420</u>	<u>70</u>	<u>5.24</u>	<u>208.61</u>	<u>133.4</u>	<u>2.15</u>	<u>16.12</u>	<u>32.99</u>	<u>16.21</u>	INITIAL
<u>1425</u>	}	<u>5.18</u>	<u>201.01</u>	<u>133.1</u>	<u>1.62</u>	<u>12.75</u>	<u>29.30</u>	<u>16.26</u>	
<u>1430</u>		<u>4.89</u>	<u>170.23</u>	<u>137.1</u>	<u>2.02</u>	<u>9.38</u>	<u>28.54</u>	<u>16.29</u>	
<u>1435</u>		<u>4.87</u>	<u>166.84</u>	<u>411.2</u>	<u>2.24</u>	<u>3.40</u>	<u>28.13</u>	<u>16.33</u>	
<u>1440</u>		<u>4.90</u>	<u>166.80</u>	<u>463.3</u>	<u>2.24</u>	<u>2.65</u>	<u>27.74</u>	<u>16.35</u>	
<u>1445</u>		<u>5.07</u>	<u>180.88</u>	<u>483.5</u>	<u>2.15</u>	<u>2.64</u>	<u>27.73</u>		
<u>1450</u>		<u>4.94</u>	<u>170.29</u>	<u>502.1</u>	<u>1.97</u>	<u>2.61</u>	<u>27.56</u>		
<u>1455</u>		<u>4.94</u>	<u>167.77</u>	<u>525.1</u>	<u>2.25</u>	<u>2.48</u>	<u>27.25</u>		
<u>1500</u>		<u>4.95</u>	<u>167.89</u>	<u>528.3</u>	<u>2.22</u>	<u>2.51</u>	<u>27.00</u>		
<u>1505</u>		<u>4.93</u>	<u>168.18</u>	<u>530.1</u>	<u>2.31</u>	<u>2.56</u>	<u>27.11</u>		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
<u>2</u>	<u>250 mL</u>	<u>PLASTIC</u>	<u>B</u>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
<u>2</u>	<u>250 mL</u>	<u>PLASTIC</u>	<u>A</u>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
<u>1</u>	<u>125 mL</u>	<u>PLASTIC</u>	<u>A</u>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>AGM</u>	DATE: <u>9.7.22</u> BY: <u>JAV</u> DATE: <u>9/15/22</u>

SAMPLE ID: AS-FGD-01	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1541</u>	DATE: <u>9.7.22</u>	SAMPLE	TIME: <u>1615</u>	DATE: <u>9.7.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.44</u> SU	CONDUCTIVITY: <u>56.29</u> umhos/cm	
			ORP: <u>239.9</u> mV	DO: <u>4.96</u> mg/L	
DEPTH TO WATER: <u>17.19</u> T/ PVC			TURBIDITY: <u>3.32</u> NTU		
DEPTH TO BOTTOM: <u>25.87</u> T/ PVC			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>25.78</u> °C OTHER: _____		
VOLUME REMOVED: <u>1.2</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u> ODOR: <u>none</u>		
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			COMMENTS: <u>Post turb: 3.16</u>		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
<u>1545</u>	<u>150</u>	<u>4.36</u>	<u>52.21</u>	<u>289.2</u>	<u>4.94</u>	<u>8.29</u>	<u>30.45</u>	<u>17.45</u>	INITIAL
<u>1550</u>	}	<u>4.34</u>	<u>55.73</u>	<u>267.3</u>	<u>5.12</u>	<u>6.85</u>	<u>25.6</u>	<u>17.48</u>	
<u>1555</u>		<u>4.41</u>	<u>56.17</u>	<u>258.6</u>	<u>5.04</u>	<u>10.78</u>	<u>25.50</u>	<u>17.49</u>	
<u>1600</u>		<u>4.42</u>	<u>56.09</u>	<u>253.3</u>	<u>4.97</u>	<u>5.88</u>	<u>25.92</u>	}	
<u>1605</u>		<u>4.42</u>	<u>56.66</u>	<u>247.2</u>	<u>5.02</u>	<u>6.12</u>	<u>25.23</u>		
<u>1610</u>		<u>4.44</u>	<u>56.33</u>	<u>242.2</u>	<u>4.99</u>	<u>4.49</u>	<u>25.42</u>		
<u>1615</u>		<u>4.44</u>	<u>56.29</u>	<u>239.9</u>	<u>4.96</u>	<u>3.32</u>	<u>25.78</u>		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
<u>2</u>	<u>250 mL</u>	<u>PLASTIC</u>	<u>B</u>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
<u>2</u>	<u>250 mL</u>	<u>PLASTIC</u>	<u>A</u>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
<u>1</u>	<u>125 mL</u>	<u>PLASTIC</u>	<u>A</u>	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: <u>AGM</u>	DATE: <u>9.7.22</u>
	BY: <u>JAY</u>	DATE: <u>9/15/22</u>

SAMPLE ID: AS-FGD-02	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>1052</u>	DATE: <u>9.7.22</u>	SAMPLE	TIME: <u>1125</u>	DATE: <u>9.7.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: <u>4.39</u> SU	CONDUCTIVITY: <u>68.60</u> umhos/cm	
DEPTH TO WATER: <u>16.12</u> T/ PVC			ORP: <u>55.9</u> mV	DO: <u>3.59</u> mg/L	
DEPTH TO BOTTOM: <u>25.45</u> T/ PVC			TURBIDITY: <u>3.02</u> NTU		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: <u>0.8</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>24.33</u> °C	OTHER: _____	
COLOR: <u>clear</u> ODOR: <u>none</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			FILTRATE ODOR: _____		
			QC SAMPLE: <input type="checkbox"/> MS/MSD <input checked="" type="checkbox"/> DUP- <u>2230</u>		
			COMMENTS: <u>Post turb: 2.99</u>		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1055	106	4.45	68.16	54.1	3.22	7.16	26.47	16.17	INITIAL
1100	}	4.45	70.18	53.8	3.11	6.84	24.46	16.20	
1105		4.42	70.14	54.0	3.25	5.56	24.17	16.22	
1110		4.37	70.01	55.2	3.30	4.97	24.38		
1115		4.39	68.40	54.5	3.57	3.86	24.38		
1120		4.39	68.79	55.5	3.61	3.46	24.47		
1125		4.39	68.60	55.9	3.59	3.02	24.33		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station FGD-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.4.2	BY: AGM	DATE: 9-7-22
	BY: JAV	DATE: 9/15/22

SAMPLE ID: AS-FGD-03	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1158	DATE: 9-7-22	SAMPLE	TIME: 1230	DATE: 9-7-22
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: 4.30 SU	CONDUCTIVITY: 57.66 umhos/cm	
DEPTH TO WATER: _____ T/ PVC			ORP: 60.6 mV	DO: 1.78 mg/L	
DEPTH TO BOTTOM: 20.36 T/ PVC 26.39			TURBIDITY: 1.89 NTU		
WELL VOLUME: _____ <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: 1.7 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 27.30 °C	OTHER: _____	
COLOR: clear			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
ODOR: none			FILTRATE COLOR: _____		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS: Post turb. 1.69					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1200	210	4.25	54.89	61.4	2.53	5.88	30.88	15.15	INITIAL
1205	}	4.26	57.27	58.9	1.82	3.58	28.08	}	
1210		4.28	57.60	58.7	1.77	3.35	27.52		
1215		4.28	57.90	59.0	1.77	2.66	27.43		
1220		4.29	57.71	59.2	1.74	2.53	27.28		
1225		4.29	57.51	60.0	1.77	3.01	27.27		
1230		4.30	57.66	60.6	1.78	1.89	27.30		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station AP-NPDES	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.6.2	BY: <u>BJM</u> DATE: <u>9.8.22</u>	BY: <u>JAY</u> DATE: <u>9.13.22</u>

SAMPLE ID: MW-1A/MW-AP-01A	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: <u>0955</u>	DATE: <u>9.8.22</u>	SAMPLE	TIME: <u>1030</u>	DATE: <u>9.8.22</u>
PURGE METHOD: <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	<input checked="" type="checkbox"/> PERISTALTIC PUMP		PH: <u>4.19</u> SU	CONDUCTIVITY: <u>41.49</u> umhos/cm	
			ORP: <u>99.6</u> mV	DO: <u>2.03</u> mg/L	
DEPTH TO WATER: _____ T/ PVC			TURBIDITY: <u>2.84</u> NTU		
DEPTH TO BOTTOM: <u>23.82</u> T/ PVC <u>23.80</u>			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
WELL VOLUME: <u>2.3</u> <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: <u>22.48</u> °C OTHER: _____		
VOLUME REMOVED: _____ <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			COLOR: <u>clear</u> ODOR: <u>None</u>		
COLOR: <u>clear w/ sediment</u> ODOR: <u>non</u>			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: _____ FILTRATE ODOR: _____		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			COMMENTS: <u>2.41</u>		

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1000	280	4.88	45.79	94.9	2.12	10.63	23.12	15.09	INITIAL
1005	|	4.29	43.96	99.8	1.01	15.12	22.91	15.12	
1010	|	4.17	41.81	102.0	1.35	18.0	22.52	|	
1015	|	4.12	41.36	102.2	1.66	9.79	22.44	|	
1020	|	4.17	41.30	99.4	1.76	6.36	22.45	|	
1025	|	4.19	41.37	98.1	1.84	6.34	22.44	|	
1030	|	4.19	41.49	99.6	2.03	2.84	22.48	|	

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- D.O.: +/- TURB: +/- 10% or <= 5 TEMP.: +/-

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F - _____									
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED	
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
2	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	250 mL	AMBER	C	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N
1	2 L	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD: _____	DATE SHIPPED: _____	AIRBILL NUMBER: _____
COC NUMBER: _____	SIGNATURE: _____	DATE SIGNED: _____



WATER SAMPLE LOG

PROJECT NAME: Wateree Station LF-CCR	PREPARED	CHECKED
PROJECT NUMBER: 416559.0005.0000.2.2	BY: BSM	DATE: 9.9.22
	BY: JAY	DATE: 9.13.22

SAMPLE ID: MW-BG-73	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> 6" <input type="checkbox"/> OTHER
WELL MATERIAL: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> SS <input type="checkbox"/> IRON <input type="checkbox"/> GALVANIZED STEEL <input type="checkbox"/> OTHER	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DI <input type="checkbox"/> LEACHATE <input type="checkbox"/> OTHER	

PURGING	TIME: 1115	DATE: 9.9.22	SAMPLE	TIME: 1150	DATE: 9.9.22
PURGE METHOD: <input checked="" type="checkbox"/> PUMP PERISTALTIC PUMP <input type="checkbox"/> BAILER			PH: 4.13 SU CONDUCTIVITY: 25.09 umhos/cm		
DEPTH TO WATER: 9.72 T/ PVC			ORP: 302.4 mV DO: 5.50 mg/L		
DEPTH TO BOTTOM: 23.38 T/ PVC			TURBIDITY: 0.59 NTU		
WELL VOLUME: <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			<input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY		
VOLUME REMOVED: 1.2 <input type="checkbox"/> LITERS <input checked="" type="checkbox"/> GALLONS			TEMPERATURE: 23.07 °C OTHER:		
COLOR: Clear ODOR: none			FILTRATE (0.45 um) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
TURBIDITY: <input checked="" type="checkbox"/> NONE <input type="checkbox"/> SLIGHT <input type="checkbox"/> MODERATE <input type="checkbox"/> VERY			FILTRATE COLOR: FILTRATE ODOR:		
DISPOSAL METHOD: <input type="checkbox"/> GROUND <input type="checkbox"/> DRUM <input checked="" type="checkbox"/> OTHER			QC SAMPLE: <input type="checkbox"/> MS/MSD <input type="checkbox"/> DUP-		
COMMENTS: Post turb: 0.81					

TIME	PURGE RATE (ML/MIN)	PH (SU)	CONDUCTIVITY (umhos/cm)	ORP (mV)	D.O. (mg/L)	TURBIDITY (NTU)	TEMPERATURE (°C)	WATER LEVEL (FEET)	CUMULATIVE PURGE VOLUME (GALLONS)
1120	160	4.13	24.57	294.1	4.32	1.27	25.20	10.30	INITIAL
1125	}	4.11	25.35	296.1	4.52	0.91	23.61	10.34	
1130		4.15	25.19	297.7	5.01	1.01	23.13	10.36	
1135		4.16	25.05	298.1	5.45	0.77	23.10		
1140		4.16	25.02	298.8	5.50	0.64	23.06		
1145		4.14	25.01	301.2	5.47	0.71	23.09		
1150		4.13	25.09	302.4	5.50	0.59	23.07		

NOTE: STABILIZATION TEST IS COMPLETE WHEN 3 SUCCESSIVE READINGS ARE WITHIN THE FOLLOWING LIMITS:

pH: +/- 0.1 COND.: +/- 3% ORP: +/- 10 D.O.: +/- 10% TURB: +/- 10% or <= 5 TEMP.: +/- 3%

BOTTLES FILLED		PRESERVATIVE CODES A - NONE B - HNO3 C - H2SO4 D - NaOH E - HCL F -											
NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED			NUMBER	SIZE	TYPE	PRESERVATIVE	FILTERED		
2	250 mL	PLASTIC	B	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N
2	250 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N
1	125 mL	PLASTIC	A	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N
				<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N					<input type="checkbox"/> Y	<input type="checkbox"/> Y	<input type="checkbox"/> N

SHIPPING METHOD:	DATE SHIPPED:	AIRBILL NUMBER:
COC NUMBER:	SIGNATURE:	DATE SIGNED:



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Wateree Station	MODEL: <i>Insite Aquatron</i>	SAMPLER: <i>BM/AM</i>
PROJECT NO.: 416559.0005.0000	SERIAL #: <i>909268</i>	DATE: 9-7-22 <i>9-7-22</i>

PH CALIBRATION CHECK

pH7 (LOT #): <i>21380102</i> (EXP. DATE): <i>04/23</i>	pH 4 <i>A/C</i> (LOT #): <i>21470032</i> (EXP. DATE): <i>04/23</i>	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD	PRE-CAL. READING / STANDARD		
<i>7.00 / 7.00</i>	<i>3.99 / 4.00</i>	<input checked="" type="checkbox"/> WITHIN RANGE	
<i>/</i>	<i>/</i>	<input type="checkbox"/> WITHIN RANGE	
<i>/</i>	<i>/</i>	<input type="checkbox"/> WITHIN RANGE	
<i>/</i>	<i>/</i>	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): <i>A/C</i> (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
<i>4485 / 4490</i>	<i>26.33</i>	<input checked="" type="checkbox"/> WITHIN RANGE	
<i>/</i>		<input type="checkbox"/> WITHIN RANGE	
<i>/</i>		<input type="checkbox"/> WITHIN RANGE	
<i>/</i>		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): <i>21140147</i> (EXP. DATE): <i>04/23</i>	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
<i>228 / 228</i>	<i>26.33</i>	<input checked="" type="checkbox"/> WITHIN RANGE	
<i>/</i>		<input type="checkbox"/> WITHIN RANGE	
<i>/</i>		<input type="checkbox"/> WITHIN RANGE	
<i>/</i>		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING <i>(mg/L)</i>	CAL. RANGE	TIME
<i>Baro: 758 mmHg</i>	<input checked="" type="checkbox"/> WITHIN RANGE	
<i>Temp: 26.37 °C</i>	<input type="checkbox"/> WITHIN RANGE	
<i>Calc: 8.00 mg/L</i>	<input type="checkbox"/> WITHIN RANGE	
<i>Actual 7.95 mg/L</i>	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): <i>NA</i>	(LOT #): <i>NA</i>		
(EXP. DATE):	(EXP. DATE):		
PRE-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
<i>0.00 / 0.00</i>	<i>/</i>	<input checked="" type="checkbox"/> WITHIN RANGE	
<i>0.91 / 1.00</i>	<i>/</i>	<input checked="" type="checkbox"/> WITHIN RANGE	
<i>9.20 / 10.00</i>	<i>/</i>	<input checked="" type="checkbox"/> WITHIN RANGE	
<i>/</i>	<i>/</i>	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): <i>21470032</i> (EXP. DATE): <i>4/23</i>	<input type="checkbox"/> STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

Lanotte S/N 16034411

PROBLEMS ENCOUNTERED

None

CORRECTIVE ACTIONS

None

[Signature]
SIGNED _____ DATE *9/15/22*

[Signature]
CHECKED BY _____ DATE *9-15-22*



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Wateree Station	MODEL: <u>Instru Aquatroll</u>	SAMPLER: BM / <u>AM</u>
PROJECT NO.: 416559.0005.0000	SERIAL #: <u>851425</u>	DATE: <u>9.7.22</u>

PH CALIBRATION CHECK

pH 7 (LOT #): <u>21380102</u> (EXP. DATE): <u>04/23</u>	pH 4/10 A/C (LOT #): <u>21470032</u> (EXP. DATE): <u>04/23</u>	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD	PRE-CAL. READING / STANDARD		
<u>7.00 / 7.00</u>	<u>4.00 / 4.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): <u>A/C</u> (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
<u>4485 / 4490</u>	<u>26.45</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): <u>21140147</u> (EXP. DATE): <u>04/23</u>	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
<u>228 / 228</u>	<u>26.37</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	
/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
<u>Baro: 758 mmHg</u> <u>Temp: 26.53 °C</u> <u>Calc: 8.00 mg/L</u> <u>Actual: 7.98 mg/L</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
	<input type="checkbox"/> WITHIN RANGE	
	<input type="checkbox"/> WITHIN RANGE	
	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): <u>NA</u> (EXP. DATE):	(LOT #): <u>NA</u> (EXP. DATE):		
PRE-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
<u>0.00 / 0.00</u>	<u>/</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>0.97 / 1.00</u>	<u>/</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>10.22 / 10.00</u>	<u>/</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): <u>21470032</u> (EXP. DATE): <u>4/23</u>	<input type="checkbox"/> STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

Lamotte s/n 14794011

PROBLEMS ENCOUNTERED

None

CORRECTIVE ACTIONS

None

[Signature] 9/15/22
SIGNED DATE

R. M. Oyer 9-15-22
CHECKED BY DATE



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Wateree Station Ash Pond-CCR	MODEL: <u>Insite Aquantek</u>	SAMPLER: <u>(AM)</u> BM
PROJECT NO.: 416559.0005.0000.5.2	SERIAL #: <u>909268</u>	DATE: <u>9.8.22</u>

PH CALIBRATION CHECK

pH 7 (LOT #): <u>21380102</u> (EXP. DATE): <u>4/23</u>	pH 4 <u>70 AC</u> (LOT #): <u>21470032</u> (EXP. DATE): <u>4/23</u>	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD	PRE-CAL. READING / STANDARD		
<u>7.05 / 7.00</u>	<u>4.14 / 4.00</u>	<input type="checkbox"/> WITHIN RANGE	
<u>6.98 / 7.00</u>	<u>4.00 / 4.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>/</u>	<u>/</u>	<input type="checkbox"/> WITHIN RANGE	
<u>/</u>	<u>/</u>	<input type="checkbox"/> WITHIN RANGE	

Post

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): <u>X/C</u> (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
<u>4.44 / 4.49</u>	<u>24.30</u>	<input type="checkbox"/> WITHIN RANGE	
<u>4.48 / 4.49</u>	<u>24.23</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>/</u>		<input type="checkbox"/> WITHIN RANGE	
<u>/</u>		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): <u>21149147</u> (EXP. DATE): <u>4/23</u>	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
<u>226 / 228</u>	<u>24.33</u>	<input type="checkbox"/> WITHIN RANGE	
<u>228 / 228</u>	<u>24.38</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>/</u>		<input type="checkbox"/> WITHIN RANGE	
<u>/</u>		<input type="checkbox"/> WITHIN RANGE	

Post

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
<u>Baro: 755 mmHg</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>Temp: 24.15 °C</u>	<input type="checkbox"/> WITHIN RANGE	
<u>Calc: 8.3 mg/L</u>	<input type="checkbox"/> WITHIN RANGE	
<u>Actual: 8.28 mg/L</u>	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)				CAL. RANGE	TIME
(LOT #):	(LOT #):				
(EXP. DATE):	(EXP. DATE):	PRE-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
		<u>1.57 / 0.00</u>	<u>0.00 / 0.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
		<u>1.10 / 1.00</u>	<u>0.97 / 1.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
		<u>10.78 / 10.00</u>	<u>9.98 / 10.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
		<u>/</u>	<u>/</u>	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): <u>21470032</u> (EXP. DATE): <u>4/23</u>	<input type="checkbox"/> STANDARD SOLUTION (S)
LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

<u>Lamotte 16034411</u>

PROBLEMS ENCOUNTERED

<u>None</u>

CORRECTIVE ACTIONS

<u>None</u>

SIGNED [Signature] DATE 9/15/22

CHECKED BY R. Mays DATE 9-15-22



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Dominion - Wateree Station	MODEL: AQUA TROLL 400	SAMPLER: BM AM
PROJECT NO.: 416559.0005.0000.3.2	SERIAL #: 909268	DATE: 9.13.22

PH CALIBRATION CHECK

(LOT #): pH 7 21380102 (EXP. DATE): 4/23	(LOT #): pH 4/10 AC 21470032 (EXP. DATE): 4/23	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD	PRE-CAL. READING / STANDARD		
6.62 / 7.00	4.14 / 4.00	<input type="checkbox"/> WITHIN RANGE	
6.96 / 7.00	4.00 / 4.00	<input checked="" type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

(LOT #): (EXP. DATE):	CAL. READING A/C	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
	PRE-CAL. READING / STANDARD			
	4.48 / 4.49	24.09	<input type="checkbox"/> WITHIN RANGE	
	4.49 / 4.49	24.14	<input checked="" type="checkbox"/> WITHIN RANGE	
	/		<input type="checkbox"/> WITHIN RANGE	
	/		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

(LOT #): (EXP. DATE):	CAL. READING 21140147 4/23	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
	PRE-CAL. READING / STANDARD			
	203 / 228	24.6	<input type="checkbox"/> WITHIN RANGE	
	228 / 228	25.1	<input checked="" type="checkbox"/> WITHIN RANGE	
	/		<input type="checkbox"/> WITHIN RANGE	
	/		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
Baro: 756 mmHg	<input checked="" type="checkbox"/> WITHIN RANGE	
Temp: 24.5 °C	<input type="checkbox"/> WITHIN RANGE	
Calc: 8.3 mg/L	<input type="checkbox"/> WITHIN RANGE	
Actual: 8.27 mg/L	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):		
PRE-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
1.99 / 0.00	0.00 / 0.00	<input checked="" type="checkbox"/> WITHIN RANGE	
2.39 / 1.00	1.11 / 1.00	<input checked="" type="checkbox"/> WITHIN RANGE	
7.99 / 10.00	9.70 / 10.00	<input checked="" type="checkbox"/> WITHIN RANGE	
/	/	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): 21470032 (EXP. DATE): 4/23	<input type="checkbox"/> STANDARD SOLUTION (S) LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input checked="" type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/>	
<input type="checkbox"/>	
⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER	

NOTES

Turb: 1663441

PROBLEMS ENCOUNTERED

None

CORRECTIVE ACTIONS

None

SIGNED: *[Signature]* DATE: 9/15/22

CHECKED BY: *[Signature]* DATE: 9-15-22



WATER QUALITY METER CALIBRATION LOG

PROJECT NAME: Dominion - Wateree Station	MODEL: AQUA TROLL 400	SAMPLER: <u>BM</u> AM
PROJECT NO.: 416559.0005.0000.3.2	SERIAL #: <u>851425</u>	DATE: <u>9.13.22</u>

PH CALIBRATION CHECK

pH 7 (LOT #): <u>21380102</u> (EXP. DATE): <u>4/23</u>	pH 4 / <u>10 AC</u> (LOT #): <u>21470032</u> (EXP. DATE): <u>4/23</u>	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD	PRE-CAL. READING / STANDARD		
<u>6.84</u> / <u>7.00</u>	<u>4.14</u> / <u>4.00</u>	<input type="checkbox"/> WITHIN RANGE	
<u>6.98</u> / <u>7.00</u>	<u>4.00</u> / <u>4.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>/</u>	<u>/</u>	<input type="checkbox"/> WITHIN RANGE	
<u>/</u>	<u>/</u>	<input type="checkbox"/> WITHIN RANGE	

SPECIFIC CONDUCTIVITY CALIBRATION CHECK

CAL. READING (LOT #): <u>AC</u> (EXP. DATE):	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
<u>4.42</u> / <u>4.49</u>	<u>24.37</u>	<input type="checkbox"/> WITHIN RANGE	
<u>4.49</u> / <u>4.49</u>	<u>24.44</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>/</u>		<input type="checkbox"/> WITHIN RANGE	
<u>/</u>		<input type="checkbox"/> WITHIN RANGE	

ORP CALIBRATION CHECK

CAL. READING (LOT #): <u>2140147</u> (EXP. DATE): <u>4/23</u>	TEMPERATURE (°CELSIUS)	CAL. RANGE	TIME
PRE-CAL. READING / STANDARD			
<u>196</u> / <u>228</u>	<u>24.4</u>	<input type="checkbox"/> WITHIN RANGE	
<u>228</u> / <u>228</u>	<u>25.3</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>/</u>		<input type="checkbox"/> WITHIN RANGE	
<u>/</u>		<input type="checkbox"/> WITHIN RANGE	

D.O. CALIBRATION CHECK

CALIBRATION READING (mg/L)	CAL. RANGE	TIME
<u>Buro: 756 mmb/g</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>Temp: 24.5 °C</u>	<input type="checkbox"/> WITHIN RANGE	
<u>Calc: 8.3 mg/L</u>	<input type="checkbox"/> WITHIN RANGE	
<u>Actual: 8.36 mg/L</u>	<input type="checkbox"/> WITHIN RANGE	

TURBIDITY CALIBRATION CHECK

CALIBRATION READING (NTU)		CAL. RANGE	TIME
(LOT #): (EXP. DATE):	(LOT #): (EXP. DATE):		
PRE-CAL. READING / STANDARD	POST-CAL. READING / STANDARD		
<u>0.96</u> / <u>0.00</u>	<u>0.00</u> / <u>0.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>1.29</u> / <u>1.00</u>	<u>0.90</u> / <u>1.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>11.4</u> / <u>10.00</u>	<u>10.58</u> / <u>10.00</u>	<input checked="" type="checkbox"/> WITHIN RANGE	
<u>/</u>	<u>/</u>	<input type="checkbox"/> WITHIN RANGE	

COMMENTS

<input checked="" type="checkbox"/> AUTOCAL SOLUTION (LOT #): <u>21470032</u> (EXP. DATE): <u>4/23</u>	<input type="checkbox"/> STANDARD SOLUTION (S)
LIST LOT NUMBERS AND EXPIRATION DATES UNDER CALIBRATION CHECK	
CALIBRATED PARAMETERS	CALIBRATION RANGES ⁽¹⁾
<input checked="" type="checkbox"/> pH	pH: +/- 0.2 S.U.
<input checked="" type="checkbox"/> COND	COND: +/- 1% OF CAL. STANDARD
<input checked="" type="checkbox"/> ORP	ORP: +/- 25 mV
<input type="checkbox"/> D.O.	D.O.: VARIES
<input type="checkbox"/> TURB	TURB: +/- 5% OF CAL. STANDARD
<input type="checkbox"/> _____	⁽¹⁾ CALIBRATION RANGES ARE SPECIFIC TO THE MODEL OF THE WATER QUALITY METER
<input type="checkbox"/> _____	

NOTES

<u>Turb: 14794011</u>

PROBLEMS ENCOUNTERED

CORRECTIVE ACTIONS

<u>None</u>

<u>None</u>

SIGNED: [Signature] DATE: 9/15/22

CHECKED BY: [Signature] DATE: 9-15-22



September 28, 2022

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, Virginia 23219

Re: CCR Groundwater Monitoring - Level 1 Package
Work Order: 592607

Dear Kelly Hicks:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 09, 2022. This revised data report has been prepared and reviewed in accordance with GEL's standard operating procedures. The client requested a revised report to update the metals analysis date.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 1648.

Sincerely,

Meredith Boddiford
Project Manager

Purchase Order: 50149867
Chain of Custody: 206941
Enclosures



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Case Narrative

The client requested a revised report to update the metals analysis date.

**Receipt Narrative
for
Dominion Energy (50149867)
SDG: 592607**

September 28, 2022

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on September 09, 2022 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

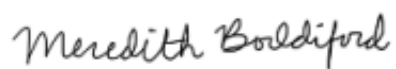
Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
592607001	MW-FGD-01-2022Q3
592607002	MW-FGD-02-2022Q3
592607003	MW-FGD-03-2022Q3
592607004	MW-FGD-04-2022Q3
592607005	MW-FGD-05-2022Q3
592607006	DU-WAT-CCR-FGD-22301
592607007	AS-FGD-01-2022Q3
592607008	AS-FGD-02-2022Q3
592607009	AS-FGD-03-2022Q3
592607010	FBLK-WAT-CCR-FGD-22301

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: General Chemistry and Metals.

A handwritten signature in black ink that reads "Meredith Boddiford". The script is cursive and fluid.

Meredith Boddiford
Project Manager

Chain of Custody and Supporting Documentation

Charleston, SC 29407
Phone: (843) 556-8171
Fax: (843) 766-1178

Chemistry | Radiochemistry | Remediation | Specialty Analytics
Chain of Custody and Analytical Request
GEL Project Manager: Meredith Boddiford

592607
GEL Work Order Number: 20694

Phone # 803-258-1328
Fax #

Sample ID	Date Collected (mm-dd-yy)	*Time Collected (hh:mm)	QC Code	Field Filtered	Sample Matrix	Should this sample be considered:		Total number of containers	Total Metals	Preservative Type (6)	Comments
						(?) Known or isotopic info. Yes, please supply	possible threats				
ED-01-2022Q3	9-7-22	1450	N	N	GW	N		3	1		
ED-02-2022Q3	9-7-22	1030	N	N	GW	N		3	1		EPA 200.8 - B and Ca
ED-03-2022Q3	9-7-22	1120	N	N	GW	N		3	1		
ED-04-2022Q3 / MS/MSD	9-7-22	1245	N	N	GW	N		6	2	2	
ED-05-2022Q3	9-7-22	1505	N	N	GW	N		3	1	1	
AT-CCR-FGD-22301	9-7-22	/	ED	N	GW	N		3	1	1	see attached work order for details

Sample Analysis Requested (6) (Fill in the number of containers for each test)

Normal: X Rusbr: _____ Specify: _____

Chain of Custody Signatures

1. [Signature] 9/9/22 1153
2. [Signature] 9/9/22 1416
3. [Signature] 9/9/22 1446

Received by (signed) Date Time

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

Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other.

Additional Remarks:

Select Deliverable: [] C of A [] QC Summary [X] level 1 [] Level 2 [] Level 3 [] Level 4

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

Sample Collection Time Zone: [X] Eastern [] Pacific [] Central [] Mountain [] Other.

Other: [] Other / Unknown

OT = Other / Unknown

(i.e.: High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)

Description:

Site Name: Wateree Station, FGD CCR 2022Q3
Send Results To: A.Reed@euvsid.com
Sample ID: _____
Date Collected: _____
Time Collected: _____
QC Code: _____
Field Filtered: _____
Sample Matrix: _____
Preservative Type: _____
Comments: _____

GEL Work Order Number: 206941
 GEL Project Manager: Meredith Bodiford
 Phone # 803-258-1528
 Fax #
 Site Name: Wateree Station FGD CCR 2022Q3
 Location: Wateree, South Carolina
 Requested By: B. Medlin / A. Misunas
 Send Results To: A.Reed@arvstl.com
 Sample ID
 * For composites - indicate start and stop date/time

Sample ID	Date Collected (mm-dd-yy)	Time Collected (Military) (hh:mm)	QC Code (N=Normal, Y=Field)	Field Filtered (Y/N)	Sample Matrix (G=Grab, C=Composite)	Should this sample be considered:		Total number of containers	See list in comments	Preservative Type (6)	Comments
						Yes, please apply isotopic lab) (Y/N)	Known or Possible Hazards (Y/N)				
D-01-2022Q3	9-7-22	1615	N	N	GW	N	N	3	1	1	Note: extra sample i required for sample specific QC
D-02-2022Q3	9-7-22	1125	N	N	GW	N	N	3	1	1	EPA 200.8 - B and Ca
D-03-2022Q3	9-7-22	1230	N	N	GW	N	N	3	1	1	
WAT-CCR-FGD-22301	9-7-22	1000	FB	N	AQ	N	N	3	1	1	see attached work order for details

Chain of Custody Signatures
 TAT Requested: Normal Rush Specify:
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

Sample Shipping and delivery details, see Sample Receipt & Review form (SRR)
 Client Determined
 Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feet, N=Nasal
 Analysis Requested: Analytical method requested (e.g. 8260B, 8010B/7470A) and number of containers provided for each (e.g. 8260B -3, 8010B/7470A - 1).
 Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
DWN OR POSSIBLE HAZARDS
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 Listed Waste
 LW = Listed Waste (F, K, P and U-Listed wastes.)
 Waste codes:
 Other
 OT = Other / Unknown
 (e.g. High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:

SAMPLE RECEIPT & REVIEW FORM

Client: DMNN	SDGIAR/COC/Work Order: 592607
Received By: MK	Date Received: 9/9/22
Enter one tracking number per line below.	IR temperature gun # FR422
Enter courier if applicable and no tracking available.	Daily Calibration performed <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Uncorrected temperature readings are to the 0.1 degree with final recorded temperatures rounded to the 0.5 degree. Provide individual container details when a cooler requiring 0-6°C is identified as out of specification.	

Cooler 1	Uncorrected Temp: 0.8	IR Correction Factor: + / - 0	Final Recorded Temp: 1.0	Within 0.0-6.0C? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Cooler 2	Uncorrected Temp: 1.2	IR Correction Factor: + / - 0	Final Recorded Temp: 1.0	Within 0.0-6.0C? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Cooler 3	Uncorrected Temp: 0.9	IR Correction Factor: + / - 0	Final Recorded Temp: 1.0	Within 0.0-6.0C? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
	Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp:	Within 0.0-6.0C? Y / N
	Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp:	Within 0.0-6.0C? Y / N
	Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp:	Within 0.0-6.0C? Y / N

Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: UN#: UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?			<input checked="" type="checkbox"/> COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm / mR/hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			<input checked="" type="checkbox"/> COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. Flammable Foreign Soil RCRA Asbestos Beryllium Other: PCB

Sample Receipt Review	Yes	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>		Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Sample containers intact and sealed?	<input checked="" type="checkbox"/>		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
4 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>		Circle Applicable: Sample ID's and Containers Affected: If Preservation added, Label: If Yes, are Inorgan or Soli RIs present for solids? Yes ___ No ___ NA ___ (if yes, take to VOA Precoat) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (if unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
5 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>		ID's and tests affected:
6 Samples received within holding time?	<input checked="" type="checkbox"/>		ID's and containers affected:
7 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>		ID's and containers affected:
8 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>		Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
9 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>		Circle Applicable: No container count on COC Other (describe)
10 Are sample containers identifiable as QEL provided by use of QEL labels?	<input checked="" type="checkbox"/>		
11 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>		Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

[Handwritten signature and date]

LUMINOUS LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Work Order Number: 206941
 GEL Project Manager: Meredith Bodiford

Note #: _____
 Number (1): _____
 Address: PO 50149867
 Name: Dominion Energy
 Site Name: Wateree Station FGD CCR 2022Q3
 Location: Wateree, South Carolina
 Contact: B. Medlin / A. Misunas
 Send Results To: A.Reed@envstl.com
 Phone #: 803-258-1528
 Fax #: _____

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (hhmm)	Field Filtered (Y/N)	Sample Matrix (M)	Total number of containers	Should this sample be considered:		Total Analysis Requested (6)	Preservative Type (6)	Comments
							Yes, please apply (topologic lab)	Known or Possible Hazards			
D-01-2022Q3	9-7-22	1615	N	N	GW	3	N	N	1	1	Note: extra sample i required for sample specific QC
D-02-2022Q3	9-7-22	1125	N	N	GW	3	N	N	1	1	EPA 200.8 - B and Ca
D-03-2022Q3	9-7-22	1230	N	N	GW	3	N	N	1	1	
WAT-CCR-FGD-22301	9-7-22	1000	FB	N	AQ	3	N	N	1	1	see attached work order for details

Chain of Custody Signatures
 Initiated By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 TAT Requested: Normal Rush Specify: _____
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary level.1 Level.2 Level.3 Level.4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other.

Sample Shipping and delivery details, see Sample Receipt & Review form (SRR)
 List of Custody Number = Client Determined
 Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feet, N=Nasal
 Analysis Requested: Analytical method requested (i.e. 8260B, 8010B/7470A) and number of containers provided for each (i.e. 8260B -3, 8010B/7470A - 1).
 Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
DWN OR POSSIBLE HAZARDS
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 Metals
 Hg = Mercury
 Se = Selenium
 Ag = Silver
 MR = Misc. RCRA metals
 Lead
Listed Waste
 LW = Listed Waste (F, K, P and U-Listed wastes.)
 Waste codes(s):
Other
 OT = Other / Unknown
 (i.e. High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: DMNN SDGIAR/COC/Work Order: 592607
 Received By: MK Date Received: 9/9/22
 IR temperature gun # FR422 Daily Calibration performed Y N
 Enter one tracking number per line below.
 Enter courier if applicable and no tracking available.
 Uncorrected temperature readings are to the 0.1 degree with final recorded temperatures rounded to the 0.5 degree. Provide individual container details when a cooler requiring 0-6°C is identified as out of specification.

Cooler 1	Uncorrected Temp: <u>0.8</u>	IR Correction Factor: <u>+ / - 0</u>	Final Recorded Temp: <u>1.0</u>	Within 0.0-6.0C? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Cooler 2	Uncorrected Temp: <u>1.2</u>	IR Correction Factor: <u>+ / - 0</u>	Final Recorded Temp: <u>1.0</u>	Within 0.0-6.0C? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Cooler 3	Uncorrected Temp: <u>0.9</u>	IR Correction Factor: <u>+ / - 0</u>	Final Recorded Temp: <u>1.0</u>	Within 0.0-6.0C? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
	Uncorrected Temp:	IR Correction Factor: <u>+ / -</u>	Final Recorded Temp:	Within 0.0-6.0C? <u>Y / N</u>
	Uncorrected Temp:	IR Correction Factor: <u>+ / -</u>	Final Recorded Temp:	Within 0.0-6.0C? <u>Y / N</u>
	Uncorrected Temp:	IR Correction Factor: <u>+ / -</u>	Final Recorded Temp:	Within 0.0-6.0C? <u>Y / N</u>

Suspected Hazard Information

Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
	<input checked="" type="checkbox"/>	Hazard Class Shipped: <u>UN#:</u> UN2910, Is the Radioactive Shipment Survey Compliant? Yes ___ No ___
A) Shipped as a DOT Hazardous?	<input checked="" type="checkbox"/>	COC notation or radioactive stickers on containers equal client designation.
B) Did the client designate the samples are to be received as radioactive?	<input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> cpm / mR/hr Classified as: Rad 1 Rad 2 Rad 3
C) Did the RSO classify the samples as radioactive?	<input checked="" type="checkbox"/>	COC notation or hazard labels on containers equal client designation.
D) Did the client designate samples are hazardous?	<input checked="" type="checkbox"/>	If D or E is yes, select Hazards below. Flammable Foreign Soil RCRA Asbestos Beryllium Other: <u>PCB</u>
E) Did the RSO identify possible hazards?		

Sample Receipt Review	Yes	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
4 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Sample ID's and containers affected: If Preservation added, Label: If Yes, are Inorgan or Soli RIs present for solids? Yes ___ No ___ NA ___ (if yes, take to VOA Precoat) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (if unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
5 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
6 Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
7 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and containers affected:
8 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
9 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: No container count on COC Other (describe)
10 Are sample containers identifiable as QEL provided by use of QEL labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

Am 9/9/22

Laboratory Certifications

List of current GEL Certifications as of 28 September 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-137
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Metals Analysis

Case Narrative

Metals
Technical Case Narrative
Dominion Energy
SDG #: 592607

Product: Determination of Metals by ICP-MS
Analytical Method: EPA 200.8 SC_NPDES
Analytical Procedure: GL-MA-E-014 REV# 35
Analytical Batch: 2319376

Preparation Method: EPA 200.2
Preparation Procedure: GL-MA-E-016 REV# 18
Preparation Batch: 2319375

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
592607001	MW-FGD-01-2022Q3
592607002	MW-FGD-02-2022Q3
592607003	MW-FGD-03-2022Q3
592607004	MW-FGD-04-2022Q3
592607005	MW-FGD-05-2022Q3
592607006	DU-WAT-CCR-FGD-22301
592607007	AS-FGD-01-2022Q3
592607008	AS-FGD-02-2022Q3
592607009	AS-FGD-03-2022Q3
592607010	FBLK-WAT-CCR-FGD-22301
1205197056	Method Blank (MB) ICP-MS
1205197057	Laboratory Control Sample (LCS)
1205197060	592607004(MW-FGD-04-2022Q3L) Serial Dilution (SD)
1205197058	592607004(MW-FGD-04-2022Q3D) Sample Duplicate (DUP)
1205197059	592607004(MW-FGD-04-2022Q3S) Matrix Spike (MS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement

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

Miscellaneous Information

Additional Comments

All method-driven specifications are followed for these analyses except where client-specific SOW requirements are required to be met.

Certification Statement

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

GEL LABORATORIES LLC

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

Qualifier Definition Report for

DMNN001 Dominion Energy (50149867)

Client SDG: 592607 GEL Work Order: 592607

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- J Value is estimated
- N Metals--The Matrix spike sample recovery is not within specified control limits
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Edmund Frampton

Date: 19 SEP 2022

Title: Group Leader

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592607

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID: 592607001

BASIS: As Received

DATE COLLECTED 07-SEP-22

CLIENT ID: MW-FGD-01-2022Q3

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	9.79	ug/L	J	4.00	15.0	15.0	1	MS	PRB	09/22/22 20:41	220916-1	2319376
7440-70-2	Calcium	904	ug/L		30.0	100	100	1	MS	PRB	09/22/22 20:41	220916-1	2319376

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2319376	2319375	EPA 200.2	50	mL	50	mL	09/21/22	EM2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592607

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:592607002

BASIS: As Received

DATE COLLECTED 07-SEP-22

CLIENT ID: MW-FGD-02-2022Q3

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	37.1	ug/L		4.00	15.0	15.0	1	MS	PRB	09/22/22 20:45	220916-1	2319376
7440-70-2	Calcium	2300	ug/L		30.0	100	100	1	MS	PRB	09/22/22 20:45	220916-1	2319376

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2319376	2319375	EPA 200.2	50	mL	50	mL	09/21/22	EM2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592607

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:592607003

BASIS: As Received

DATE COLLECTED 07-SEP-22

CLIENT ID: MW-FGD-03-2022Q3

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	13.0	ug/L	J	4.00	15.0	15.0	1	MS	PRB	09/22/22 20:48	220916-1	2319376
7440-70-2	Calcium	5710	ug/L		30.0	100	100	1	MS	PRB	09/22/22 20:48	220916-1	2319376

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
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2319376	2319375	EPA 200.2	50	mL	50	mL	09/21/22	EM2
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***Analytical Methods:**

MS **EPA 200.8 SC_NPDES**

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592607

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID: 592607004

BASIS: As Received

DATE COLLECTED 07-SEP-22

CLIENT ID: MW-FGD-04-2022Q3

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	14.3	ug/L	J	4.00	15.0	15.0	1	MS	PRB	09/22/22 20:51	220916-1	2319376
7440-70-2	Calcium	2170	ug/L		30.0	100	100	1	MS	PRB	09/22/22 20:51	220916-1	2319376

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2319376	2319375	EPA 200.2	50	mL	50	mL	09/21/22	EM2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592607

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID: 592607005

BASIS: As Received

DATE COLLECTED 07-SEP-22

CLIENT ID: MW-FGD-05-2022Q3

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	32.5	ug/L		4.00	15.0	15.0	1	MS	PRB	09/22/22 21:15	220916-1	2319376
7440-70-2	Calcium	10600	ug/L		30.0	100	100	1	MS	PRB	09/22/22 21:15	220916-1	2319376

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2319376	2319375	EPA 200.2	50	mL	50	mL	09/21/22	EM2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592607

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID: 592607006

BASIS: As Received

DATE COLLECTED 07-SEP-22

CLIENT ID: DU-WAT-CCR-FGD-2230

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	15.4	ug/L		4.00	15.0	15.0	1	MS	PRB	09/22/22 21:18	220916-1	2319376
7440-70-2	Calcium	1770	ug/L		30.0	100	100	1	MS	PRB	09/22/22 21:18	220916-1	2319376

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2319376	2319375	EPA 200.2	50	mL	50	mL	09/21/22	EM2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592607

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID: 592607007

BASIS: As Received

DATE COLLECTED 07-SEP-22

CLIENT ID: AS-FGD-01-2022Q3

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	8.52	ug/L	J	4.00	15.0	15.0	1	MS	PRB	09/22/22 21:22	220916-1	2319376
7440-70-2	Calcium	994	ug/L		30.0	100	100	1	MS	PRB	09/22/22 21:22	220916-1	2319376

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2319376	2319375	EPA 200.2	50	mL	50	mL	09/21/22	EM2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592607

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID: 592607008

BASIS: As Received

DATE COLLECTED 07-SEP-22

CLIENT ID: AS-FGD-02-2022Q3

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	15.0	ug/L		4.00	15.0	15.0	1	MS	PRB	09/22/22 21:25	220916-1	2319376
7440-70-2	Calcium	1730	ug/L		30.0	100	100	1	MS	PRB	09/22/22 21:25	220916-1	2319376

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2319376	2319375	EPA 200.2	50	mL	50	mL	09/21/22	EM2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592607

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID: 592607009

BASIS: As Received

DATE COLLECTED 07-SEP-22

CLIENT ID: AS-FGD-03-2022Q3

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	13.7	ug/L	J	4.00	15.0	15.0	1	MS	PRB	09/22/22 21:28	220916-1	2319376
7440-70-2	Calcium	1570	ug/L		30.0	100	100	1	MS	PRB	09/22/22 21:28	220916-1	2319376

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2319376	2319375	EPA 200.2	50	mL	50	mL	09/21/22	EM2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592607

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:592607010

BASIS: As Received

DATE COLLECTED 07-SEP-22

CLIENT ID: FBLK-WAT-CCR-FGD-22

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	4.00	ug/L	U	4.00	15.0	15.0	1	MS	PRB	09/22/22 21:32	220916-1	2319376
7440-70-2	Calcium	30.0	ug/L	U	30.0	100	100	1	MS	PRB	09/22/22 21:32	220916-1	2319376

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2319376	2319375	EPA 200.2	50	mL	50	mL	09/21/22	EM2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 592607

Contract: DMNN00101

Lab Code: GEL

Instrument ID: ICPMS15

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01	Boron	102	ug/L	100	ug/L	101.8	90.0 – 110.0	MS	22-SEP-22 20:01	220916-1
	Calcium	5160	ug/L	5000	ug/L	103.2	90.0 – 110.0	MS	22-SEP-22 20:01	220916-1
CCV01	Boron	101	ug/L	100	ug/L	100.6	90.0 – 110.0	MS	22-SEP-22 20:18	220916-1
	Calcium	5270	ug/L	5000	ug/L	105.4	90.0 – 110.0	MS	22-SEP-22 20:18	220916-1
CCV02	Boron	96.9	ug/L	100	ug/L	96.9	90.0 – 110.0	MS	22-SEP-22 20:28	220916-1
	Calcium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	MS	22-SEP-22 20:28	220916-1
CCV03	Boron	97.7	ug/L	100	ug/L	97.7	90.0 – 110.0	MS	22-SEP-22 21:08	220916-1
	Calcium	5160	ug/L	5000	ug/L	103.1	90.0 – 110.0	MS	22-SEP-22 21:08	220916-1
CCV04	Boron	98.7	ug/L	100	ug/L	98.7	90.0 – 110.0	MS	22-SEP-22 21:42	220916-1
	Calcium	5150	ug/L	5000	ug/L	103	90.0 – 110.0	MS	22-SEP-22 21:42	220916-1

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS
-2b-
CRDL Standard for ICP & ICPMS

SDG No: 592607

Contract: DMNN00101

Lab Code: GEL

Instrument ID: ICPMS15

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01	Boron	16.6	ug/L	15	ug/L	110.4	70.0 – 130.0	MS	22-SEP-22 20:08	220916-1
	Calcium	241	ug/L	200	ug/L	120.5	70.0 – 130.0	MS	22-SEP-22 20:08	220916-1
CRDL02	Boron	17	ug/L	15	ug/L	113.4	70.0 – 130.0	MS	22-SEP-22 21:45	220916-1
	Calcium	232	ug/L	200	ug/L	115.8	70.0 – 130.0	MS	22-SEP-22 21:45	220916-1

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 592607

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result ug/L</u>	<u>Acceptance</u>	<u>Conc Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run</u>
ICB01	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	22-SEP-22 20:04	220916-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	22-SEP-22 20:04	220916-1
CCB01	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	22-SEP-22 20:21	220916-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	22-SEP-22 20:21	220916-1
CCB02	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	22-SEP-22 20:31	220916-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	22-SEP-22 20:31	220916-1
CCB03	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	22-SEP-22 21:12	220916-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	22-SEP-22 21:12	220916-1
CCB04	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	22-SEP-22 21:49	220916-1
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	22-SEP-22 21:49	220916-1

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 592607
Contract: DMNN00101
Matrix: GW

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M*</u>	<u>MDL</u>	<u>RDL</u>
1205197056	Boron	4.00	ug/L	+/-7.5	U	MS	4.00	15.0
	Calcium	30.0	ug/L	+/-50	U	MS	30.0	100

***Analytical Methods:**

MS EPA 200.8 SC_NPDES

METALS
-4-
Interference Check Sample

SDG No: 592607

Contract: DMNN00101

Lab Code: GEL

Instrument: ICPMS15

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Boron	4.11	ug/L					22-SEP-22 20:11	220916-1
	Calcium	96700	ug/L	100000	ug/L	96.7	80.0 – 120.0	22-SEP-22 20:11	220916-1
ICSAB01									
	Boron	21.4	ug/L	22.06	ug/L	96.9	80.0 – 120.0	22-SEP-22 20:15	220916-1
	Calcium	95800	ug/L	100000	ug/L	95.8	80.0 – 120.0	22-SEP-22 20:15	220916-1
ICSA02									
	Boron	3.9	ug/L					22-SEP-22 21:35	220916-1
	Calcium	96000	ug/L	100000	ug/L	96	80.0 – 120.0	22-SEP-22 21:35	220916-1
ICSAB02									
	Boron	21.6	ug/L	22.06	ug/L	98	80.0 – 120.0	22-SEP-22 21:39	220916-1
	Calcium	97200	ug/L	100000	ug/L	97.2	80.0 – 120.0	22-SEP-22 21:39	220916-1

METALS

-5a-

Matrix Spike Summary

SDG NO. 592607 Client ID: MW-FGD-04-2022Q3S

Contract: DMNN00101 Level: Low

Matrix: GROUND WATER % Solids:

Sample ID: 592607004 Spike ID: 1205197059

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M*</u>
Boron	ug/L	75-125	111		14.3	B	100	96.4		MS
Calcium	ug/L	75-125	4290		2170		2000	106		MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

Metals
-6-
Duplicate Sample Summary

SDG No.: 592607

Lab Code: GEL

Contract: DMNN00101

Client ID: MW-FGD-04-2022Q3D

Matrix: GROUND WATER

Level: Low

Sample ID: 592607004

Duplicate ID: 1205197058

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M*
Boron	ug/L	+/-30	14.3	B	14.8	B	3.45		MS
Calcium	ug/L	+/-20%	2170		2120		2.42		MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 592607

Contract: DMNN00101

Aqueous LCS Source: Enviromental Express

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M*</u>
1205197057	Boron	ug/L	100	94.4		94.4	85-115	MS
	Calcium	ug/L	2000	2040		102	85-115	MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 592607 Client ID: MW-FGD-04-2022Q3L

Contract: DMNN00101

Matrix: LIQUID Level: Low

Sample ID: 592607004 Serial Dilution ID: 1205197060

<u>Analyte</u>	<u>Initial Value</u> ug/L	<u>C</u>	<u>Serial Value</u> ug/L	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M*</u>
Boron	14.3	B	28.5	B	99.038			MS
Calcium	2170		2080		4.202			MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 592607

Method Type: MS

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	2319375						
1205197056	MB for batch 2319375	MB	G	21-SEP-22	50mL	50mL	
1205197057	LCS for batch 2319375	LCS	G	21-SEP-22	50mL	50mL	
1205197059	MW-FGD-04-2022Q3S	MS	G	21-SEP-22	50mL	50mL	
1205197058	MW-FGD-04-2022Q3D	DUP	G	21-SEP-22	50mL	50mL	
592607001	MW-FGD-01-2022Q3	SAMPLE	G	21-SEP-22	50mL	50mL	
592607002	MW-FGD-02-2022Q3	SAMPLE	G	21-SEP-22	50mL	50mL	
592607003	MW-FGD-03-2022Q3	SAMPLE	G	21-SEP-22	50mL	50mL	
592607004	MW-FGD-04-2022Q3	SAMPLE	G	21-SEP-22	50mL	50mL	
592607005	MW-FGD-05-2022Q3	SAMPLE	G	21-SEP-22	50mL	50mL	
592607006	DU-WAT-CCR-FGD-22301	SAMPLE	G	21-SEP-22	50mL	50mL	
592607007	AS-FGD-01-2022Q3	SAMPLE	G	21-SEP-22	50mL	50mL	
592607008	AS-FGD-02-2022Q3	SAMPLE	G	21-SEP-22	50mL	50mL	
592607009	AS-FGD-03-2022Q3	SAMPLE	G	21-SEP-22	50mL	50mL	
592607010	FBLK-WAT-CCR-FGD-22301	SAMPLE	G	21-SEP-22	50mL	50mL	

General Chem Analysis

Case Narrative

**General Chemistry
 Technical Case Narrative
 Dominion Energy
 SDG #: 592607**

Product: Ion Chromatography
Analytical Method: EPA 300.0
Analytical Procedure: GL-GC-E-086 REV# 30
Analytical Batch: 2315794

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
592607001	MW-FGD-01-2022Q3
592607002	MW-FGD-02-2022Q3
592607003	MW-FGD-03-2022Q3
592607004	MW-FGD-04-2022Q3
592607005	MW-FGD-05-2022Q3
592607006	DU-WAT-CCR-FGD-22301
592607007	AS-FGD-01-2022Q3
592607008	AS-FGD-02-2022Q3
592607009	AS-FGD-03-2022Q3
592607010	FBLK-WAT-CCR-FGD-22301
1205189764	Method Blank (MB)
1205189765	Laboratory Control Sample (LCS)
1205189766	592607004(MW-FGD-04-2022Q3) Sample Duplicate (DUP)
1205189767	592607004(MW-FGD-04-2022Q3) Post Spike (PS)
1205189768	592592001(MW-LF-22-2022Q3) Sample Duplicate (DUP)
1205189769	592592001(MW-LF-22-2022Q3) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

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

Analyte	Sample	Value
Chloride	1205189767 (MW-FGD-04-2022Q3PS)	114* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205189768 (MW-LF-22-2022Q3DUP), 1205189769 (MW-LF-22-2022Q3PS) and 592607005 (MW-FGD-05-2022Q3) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	592607
	005
Chloride	5X
Sulfate	5X

Sample Re-analysis

Samples 1205189764 (MB), 1205189765 (LCS), 1205189768 (MW-LF-22-2022Q3DUP) and 1205189769 (MW-LF-22-2022Q3PS) were re-analyzed due to CCB failure. The reanalysis data with passing instrument QC was reported. Sample 1205189764 (MB) was re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported. Sample 1205189764 (MB) was re-analyzed to verify the result.

Miscellaneous Information**Manual Integrations**

Sample 1205189766 (MW-FGD-04-2022Q3DUP) was manually integrated to correctly position the baseline as set in the calibration standards.

Additional Comments

All method-driven specifications are followed for these analyses except where client-specific SOW requirements are required to be met.

Product: Solids, Total Dissolved

Analytical Method: SM 2540C

Analytical Procedure: GL-GC-E-001 REV# 19

Analytical Batch: 2315610

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
592607001	MW-FGD-01-2022Q3
592607002	MW-FGD-02-2022Q3
592607003	MW-FGD-03-2022Q3
592607004	MW-FGD-04-2022Q3
592607005	MW-FGD-05-2022Q3
592607006	DU-WAT-CCR-FGD-22301
592607007	AS-FGD-01-2022Q3
592607008	AS-FGD-02-2022Q3
592607009	AS-FGD-03-2022Q3
592607010	FBLK-WAT-CCR-FGD-22301
1205189364	Method Blank (MB)
1205189365	Laboratory Control Sample (LCS)
1205189366	592335009(NonSDG) Sample Duplicate (DUP)
1205189367	592360005(NonSDG) Sample Duplicate (DUP)
1205189368	592497005(NonSDG) Sample Duplicate (DUP)
1205189369	592500002(NonSDG) Sample Duplicate (DUP)
1205189370	592598001(NonSDG) Sample Duplicate (DUP)
1205189371	592607004(MW-FGD-04-2022Q3) Sample Duplicate (DUP)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

All method-driven specifications are followed for these analyses except where client-specific SOW requirements are required to be met.

Certification Statement

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

GEL LABORATORIES LLC

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Qualifier Definition Report for

DMNN001 Dominion Energy (50149867)

Client SDG: 592607 GEL Work Order: 592607

The Qualifiers in this report are defined as follows:

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

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature:



Name: Aubrey Kingsbury

Date: 22 SEP 2022

Title: Team Leader

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: MW-FGD-01-2022Q3 Project: DMNN00101
Sample ID: 592607001 Client ID: DMNN001
Matrix: GW
Collect Date: 07-SEP-22 14:50
Receive Date: 09-SEP-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.09	0.0670	0.200	mg/L		1	JLD1	09/13/22	2319	2315794	1
Fluoride	J	0.0418	0.0330	0.100	mg/L		1					
Sulfate		0.756	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids	J	8.00	2.38	10.0	mg/L			CH6	09/13/22	1112	2315610	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	MW-FGD-02-2022Q3	Project:	DMNN00101
Sample ID:	592607002	Client ID:	DMNN001
Matrix:	GW		
Collect Date:	07-SEP-22 10:30		
Receive Date:	09-SEP-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.04	0.0670	0.200	mg/L		1	JLD1	09/13/22	2350	2315794	1
Fluoride	J	0.0993	0.0330	0.100	mg/L		1					
Sulfate		6.20	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		34.0	2.38	10.0	mg/L			CH6	09/13/22	1112	2315610	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	MW-FGD-03-2022Q3	Project:	DMNN00101
Sample ID:	592607003	Client ID:	DMNN001
Matrix:	GW		
Collect Date:	07-SEP-22 11:20		
Receive Date:	09-SEP-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		6.77	0.0670	0.200	mg/L		1	JLD1	09/14/22	0020	2315794	1
Fluoride	J	0.0724	0.0330	0.100	mg/L		1					
Sulfate		8.43	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		29.0	2.38	10.0	mg/L			CH6	09/13/22	1112	2315610	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: MW-FGD-04-2022Q3 Project: DMNN00101
Sample ID: 592607004 Client ID: DMNN001
Matrix: GW
Collect Date: 07-SEP-22 12:45
Receive Date: 09-SEP-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.27	0.0670	0.200	mg/L		1	JLD1	09/14/22	0051	2315794	1
Fluoride	J	0.0556	0.0330	0.100	mg/L		1					
Sulfate		3.27	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		23.0	2.38	10.0	mg/L			CH6	09/13/22	1112	2315610	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	MW-FGD-05-2022Q3	Project:	DMNN00101
Sample ID:	592607005	Client ID:	DMNN001
Matrix:	GW		
Collect Date:	07-SEP-22 15:05		
Receive Date:	09-SEP-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Fluoride	J	0.0793	0.0330	0.100	mg/L		1	JLD1	09/14/22	0224	2315794	1
Chloride		13.4	0.335	1.00	mg/L		5	JLD1	09/14/22	0834	2315794	2
Sulfate		29.8	0.665	2.00	mg/L		5					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		105	2.38	10.0	mg/L			CH6	09/13/22	1112	2315610	3

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	EPA 300.0	
3	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: DU-WAT-CCR-FGD-22301 Project: DMNN00101
Sample ID: 592607006 Client ID: DMNN001
Matrix: GW
Collect Date: 07-SEP-22 12:00
Receive Date: 09-SEP-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.17	0.0670	0.200	mg/L		1	JLD1	09/14/22	0255	2315794	1
Fluoride	J	0.0741	0.0330	0.100	mg/L		1					
Sulfate		4.41	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		26.0	2.38	10.0	mg/L			CH6	09/13/22	1112	2315610	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	AS-FGD-01-2022Q3	Project:	DMNN00101
Sample ID:	592607007	Client ID:	DMNN001
Matrix:	GW		
Collect Date:	07-SEP-22 16:15		
Receive Date:	09-SEP-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		7.32	0.0670	0.200	mg/L		1	JLD1	09/14/22	0458	2315794	1
Fluoride	J	0.0739	0.0330	0.100	mg/L		1					
Sulfate	J	0.362	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		28.0	2.38	10.0	mg/L			CH6	09/13/22	1112	2315610	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: AS-FGD-02-2022Q3	Project: DMNN00101
Sample ID: 592607008	Client ID: DMNN001
Matrix: GW	
Collect Date: 07-SEP-22 11:25	
Receive Date: 09-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.17	0.0670	0.200	mg/L		1	JLD1	09/14/22	0529	2315794	1
Fluoride	J	0.0754	0.0330	0.100	mg/L		1					
Sulfate		4.57	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		30.0	2.38	10.0	mg/L			CH6	09/13/22	1112	2315610	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: AS-FGD-03-2022Q3 Project: DMNN00101
Sample ID: 592607009 Client ID: DMNN001
Matrix: GW
Collect Date: 07-SEP-22 12:30
Receive Date: 09-SEP-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		8.90	0.0670	0.200	mg/L		1	JLD1	09/14/22	0600	2315794	1
Fluoride	J	0.0733	0.0330	0.100	mg/L		1					
Sulfate		2.26	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids		20.0	2.38	10.0	mg/L			CH6	09/13/22	1112	2315610	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
 Address : 120 Tredegar Street
 Richmond, Virginia 23219
 Contact: Kelly Hicks
 Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: FBLK-WAT-CCR-FGD-22301	Project: DMNN00101
Sample ID: 592607010	Client ID: DMNN001
Matrix: GW	
Collect Date: 07-SEP-22 10:00	
Receive Date: 09-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.226	0.0670	0.200	mg/L		1	JLD1	09/14/22	0631	2315794	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	U	ND	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/13/22	1112	2315610	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: September 22, 2022

Page 1 of 3

Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, Virginia

Contact: Kelly Hicks

Workorder: 592607

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2315794										
QC1205189766	592607004	DUP									
Chloride		8.27		8.14	mg/L	1.56		(0%-20%)	JLD1	09/14/22	01:22
Fluoride	J	0.0556	J	0.0526	mg/L	5.55	^	(+/-2)			
Sulfate		3.27		3.31	mg/L	1.39		(0%-20%)			
QC1205189768	592592001	DUP									
Chloride		9.99		10.1	mg/L	0.752		(0%-20%)		09/14/22	09:36
Fluoride	J	0.0707	J	0.0660	mg/L	6.88	^	(+/-2)		09/15/22	21:30
Sulfate		1.06		1.05	mg/L	1.51	^	(+/-8)			
QC1205189765	LCS										
Chloride	5.00			4.78	mg/L			95.6 (90%-110%)		09/15/22	20:28
Fluoride	2.50			2.61	mg/L			104 (90%-110%)			
Sulfate	10.0			10.9	mg/L			109 (90%-110%)			
QC1205189764	MB										
Chloride			U	ND	mg/L					09/14/22	08:03
Fluoride			U	ND	mg/L						
Sulfate			J	0.202	mg/L						
QC1205189767	592607004	PS									
Chloride	5.00	8.27		14.0	mg/L			114* (90%-110%)		09/14/22	01:53

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QC Summary

Workorder: 592607

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2315794										
Fluoride	2.50	J	0.0556	2.67	mg/L		105	(90%-110%)	JLD1	09/14/22	01:53
Sulfate	10.0		3.27	13.1	mg/L		98.3	(90%-110%)			
QC1205189769	592592001	PS									
Chloride	5.00		5.00	10.5	mg/L		110	(90%-110%)		09/14/22	10:07
Fluoride	2.50	J	0.0707	2.67	mg/L		104	(90%-110%)		09/15/22	22:00
Sulfate	10.0		1.06	10.5	mg/L		94.1	(90%-110%)			
Solids Analysis											
Batch	2315610										
QC1205189366	592335009	DUP									
Total Dissolved Solids			213	212	mg/L	0.471		(0%-5%)	CH6	09/13/22	11:12
QC1205189367	592360005	DUP									
Total Dissolved Solids			207	210	mg/L	1.44		(0%-5%)		09/13/22	11:12
QC1205189368	592497005	DUP									
Total Dissolved Solids			236	242	mg/L	2.51		(0%-5%)		09/13/22	11:12
QC1205189369	592500002	DUP									
Total Dissolved Solids			207	204	mg/L	1.46		(0%-5%)		09/13/22	11:12
QC1205189370	592598001	DUP									
Total Dissolved Solids			458	461	mg/L	0.653		(0%-5%)		09/13/22	11:12
QC1205189371	592607004	DUP									
Total Dissolved Solids			23.0	22.0	mg/L	4.44 ^		(+/-20)		09/13/22	11:12
QC1205189365	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		09/13/22	11:12

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QC Summary

Workorder: 592607

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Solids Analysis											
Batch	2315610										
QC1205189364	MB										
Total Dissolved Solids			U	ND	mg/L				CH6	09/13/22	11:12

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Z Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- d 5-day BOD--The 2:1 depletion requirement was not met for this sample
- e 5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes
- h Preparation or preservation holding time was exceeded

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

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

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

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

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

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 593105

CONTRACT: DMNN00101

METHOD TYPE: SW846

SAMPLE ID: 593105013

BASIS: As Received

DATE COLLECTED 09-SEP-22

CLIENT ID: MW-BG-73-2022Q3

LEVEL: Low

DATE RECEIVED 14-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-42-8	Boron	10.9	ug/L	J	5.20	15.0	15.0	1	MS	PRB	09/17/22 19:28	220917-1	2316655
7440-70-2	Calcium	280	ug/L		80.0	200	200	1	MS	PRB	09/17/22 19:28	220917-1	2316655

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2316655	2316654	SW846 3005A	50	mL	50	mL	09/15/22	LG2

***Analytical Methods:**

MS SW846 3005A/6020B

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 27, 2022

Company : Dominion Energy Services, Inc.
 Address : 120 Tredegar Street
 Richmond, Virginia 23219
 Contact: Kelly Hicks
 Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: MW-BG-73-2022Q3	Project: DMNN00101
Sample ID: 593105013	Client ID: DMNN001
Matrix: GW	
Collect Date: 09-SEP-22 11:50	
Receive Date: 14-SEP-22	
Collector: Client	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		2.52	0.0670	0.200	mg/L		1	JLD1	09/17/22	0244	2317984	1
Fluoride	U	ND	0.0330	0.100	mg/L		1					
Sulfate	J	0.398	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/15/22	1034	2316771	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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



September 22, 2022

Kelly Hicks
Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, Virginia 23219

Re: CCR Groundwater Monitoring - Level 1 Package
Work Order: 592596

Dear Kelly Hicks:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on September 09, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 1648.

Sincerely,

Meredith Boddiford
Project Manager

Purchase Order: 50149867
Chain of Custody: 206939
Enclosures



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Case Narrative

**Receipt Narrative
for
Dominion Energy (50149867)
SDG: 592596**

September 22, 2022

Laboratory Identification:

GEL Laboratories LLC
2040 Savage Road
Charleston, South Carolina 29407
(843) 556-8171

Summary:

Sample receipt: The samples arrived at GEL Laboratories LLC, Charleston, South Carolina on September 09, 2022 for analysis. The samples were delivered with proper chain of custody documentation and signatures. All sample containers arrived without any visible signs of tampering or breakage. There are no additional comments concerning sample receipt.

Sample Identification: The laboratory received the following samples:

<u>Laboratory ID</u>	<u>Client ID</u>
592596001	MW-AP-01A-2022Q3
592596002	FBLK-WAT-CCR-AP-22301

Case Narrative:

Sample analyses were conducted using methodology as outlined in GEL's Standard Operating Procedures. Any technical or administrative problems during analysis, data review, and reduction are contained in the analytical case narratives in the enclosed data package.

The enclosed data package contains the following sections: Case Narrative, Chain of Custody, Cooler Receipt Checklist, Data Package Qualifier Definitions and data from the following fractions: General Chemistry, Metals and Radiochemistry.

Meredith Boddiford

Meredith Boddiford
Project Manager

Chain of Custody and Supporting Documentation

Project # 416559.0005.0000.5.2
 Quote # SA 2596
 OC Number 01-2022140
 PONumber PO 50149887
 Client Name: Dominion Energy
 Project/Site Name: Wateree Station Ash Pond CCR 2022Q3
 Address: Wateree, South Carolina
 Contacted By: B. Medlin / A. Misunas
 Send Results To: AReed@envystd.com
 Phone # 803-258-1528
 Fax #

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered	Sample Matrix	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)		Comments
						Yes, please supply isotopic info.	(7) Known or possible hazards		N	N		Preservative Type (6)
MW-AP-01-A-2022Q3	9-8-22	1030	N	N	GW	N	N	4	1	1	EPA 200.8 - Sb, As, Ba, Be
MW-AP-01-2022Q3			N	N	GW	N	N				B, Cd, Ca, Cr, Co, Pb, Li,
MW-AP-02-2022Q3			N	N	GW	N	N				Mo, Se, Tl
MW-AP-03-2022Q3			N	N	GW	N	N				EPA 245.1 - Hg
MW-AP-03D-2022Q3			N	N	GW	N	N				
MW-AP-03D2-2022Q3			N	N	GW	N	N				
MW-AP-04-2022Q3			N	N	GW	N	N				See attached work order for details
DU-WAT-CCR-AP-22301			FD	N	GW	N	N				
FBLK-WAT-CCR-AP-22301	9-8-22	1045	FB	N	AQ	N	N	4	1	1	
MW-AP-05-2022Q3			N	N	GW	N	N				

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 1. *[Signature]* 9-9-22 1153
 2. *[Signature]* 9-9-22 1446
 3. _____
 TAT Requested: Normal: Rush: _____ Specify: _____
 Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

1) Chain of Custody Number = Client Determined
 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.
 4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Settling, SI=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
 5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
 6) Preservative Type: BA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive
 Listed Waste: LW = Listed Waste (F, K, P and U-listed wastes.)
 Waste code(s):
 TSCA Regulated: PCB = Polychlorinated biphenyls
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals
 Pb = Lead
 Other: OT = Other / Unknown (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)



SAMPLE RECEIPT & REVIEW FORM

Client: DMNN		SDGAR/COC/Work Order: 592596	
Received By: MK		Date Received: 9/9/22	
Enter one tracking number per line below.		IR temperature gun # IR422	
Enter courier if applicable and no tracking available.		Daily Calibration performed <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Uncorrected temperature readings are to the 0.1 degree with final recorded temperatures rounded to the 0.5 degree. Provide individual container details when a cooler requiring 0 <= 6C is identified as out of specification.			
Cooler 1	Uncorrected Temp: 0.8	IR Correction Factor: + / - 0	Final Recorded Temp: 1.0 Within 0.0-6.0C? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Cooler 2	Uncorrected Temp: 1.2	IR Correction Factor: + / - 0	Final Recorded Temp: 1.0 Within 0.0-6.0C? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Cooler 3	Uncorrected Temp: 0.9	IR Correction Factor: + / - 0	Final Recorded Temp: 1.0 Within 0.0-6.0C? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp: Within 0.0-6.0C? Y / N
	Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp: Within 0.0-6.0C? Y / N
	Uncorrected Temp:	IR Correction Factor: + / -	Final Recorded Temp: Within 0.0-6.0C? Y / N
Suspected Hazard Information		*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.	
A) Shipped as a DOT Hazardous?		Hazard Class Shipped: UN#: UN2910 , Is the Radioactive Shipment Survey Compliant? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
B) Did the client designate the samples are to be received as radioactive?		COC notation or radioactive stickers on containers equal client designation. <input checked="" type="checkbox"/>	
C) Did the RSO classify the samples as radioactive?		Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 cpm / mR/Hr Classified as: Rad 1 Rad 2 Rad 3	
D) Did the client designate samples are hazardous?		COC notation or hazard labels on containers equal client designation. <input checked="" type="checkbox"/>	
E) Did the RSO identify possible hazards?		If D or E is yes, select Hazards below. Flammable Foreign Soil RCRA Asbestos Beryllium Other: <input type="checkbox"/> PCB's	
Sample Receipt Criteria		Comments/Qualifiers (Required for Non-Conforming Items)	
1	Shipping containers received intact and sealed?	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
2	Chain of custody documents included with shipment?	Circle Applicable: Client contacted and provided COC COC created upon receipt	
3	Sample containers intact and sealed?	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
4	Samples requiring chemical preservation at proper pH?	Sample ID's and Containers Affected: If Preservation added, List:	
5	Do any samples require Volatile Analysis?	If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (if yes, take to VOA Preager) Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (if unknown, select No) Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:	
6	Samples received within holding time?	ID's and tests affected:	
7	Sample ID's on COC match ID's on bottles?	ID's and containers affected:	
8	Date & time on COC match date & time on bottles?	Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)	
9	Number of containers received match number indicated on COC?	Circle Applicable: No container count on COC Other (describe)	
10	Are sample containers identifiable as GEL provided by use of GEL labels?		
11	COC form is properly signed in relinquished/received sections?	Circle Applicable: Not relinquished Other (describe)	
Comments (Use Continuation Form if needed):			

Laboratory Certifications

List of current GEL Certifications as of 22 September 2022

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122023-3
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2022-137
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-22-20
Utah NELAP	SC000122021-36
Vermont	VT87156
Virginia NELAP	460202
Washington	C780

Metals Analysis

Case Narrative

Metals
Technical Case Narrative
Dominion Energy
SDG #: 592596

Product: Determination of Metals by ICP-MS

Analytical Method: EPA 200.8 SC_NPDES

Analytical Procedure: GL-MA-E-014 REV# 35

Analytical Batch: 2314847

Product: Mercury Analysis Using the Perkin Elmer Automated Mercury Analyzer

Analytical Method: EPA 245.1/245.2

Analytical Procedure: GL-MA-E-010 REV# 38

Analytical Batch: 2315615

Preparation Method: EPA 200.2

Preparation Procedure: GL-MA-E-016 REV# 18

Preparation Batch: 2314845

Preparation Method: EPA 245.1/245.2 Prep

Preparation Procedure: GL-MA-E-010 REV# 38

Preparation Batch: 2315614

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
592596001	MW-AP-01A-2022Q3
592596002	FBLK-WAT-CCR-AP-22301
1205187670	Method Blank (MB) ICP-MS
1205187671	Laboratory Control Sample (LCS)
1205187674	592596001(MW-AP-01A-2022Q3L) Serial Dilution (SD)
1205187672	592596001(MW-AP-01A-2022Q3D) Sample Duplicate (DUP)
1205187673	592596001(MW-AP-01A-2022Q3S) Matrix Spike (MS)
1205189376	Method Blank (MB) CVAA
1205189377	Laboratory Control Sample (LCS)
1205189383	592621001(NonSDGL) Serial Dilution (SD)
1205189381	592621001(NonSDGD) Sample Duplicate (DUP)
1205189382	592621001(NonSDGS) Matrix Spike (MS)

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

Data Summary:

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

Calibration Information

ICSA/ICSAB Statement

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

Miscellaneous Information

Additional Comments

All method-driven specifications are followed for these analyses except where client-specific SOW requirements are required to be met.

Certification Statement

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

GEL LABORATORIES LLC

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

Qualifier Definition Report for

DMNN001 Dominion Energy (50149867)

Client SDG: 592596 GEL Work Order: 592596

The Qualifiers in this report are defined as follows:


- * A quality control analyte recovery is outside of specified acceptance criteria
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature:



Name: Alan Stanley

Date: 21 SEP 2022

Title: Team Leader

Sample Data Summary

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592596

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:592596001

BASIS: As Received

DATE COLLECTED 08-SEP-22

CLIENT ID: MW-AP-01A-2022Q3

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-36-0	Antimony	0.600	ug/L	U	0.600	2.00	2.00	1	MS	SKJ	09/16/22 19:54	220916-1	2314847
7440-38-2	Arsenic	1.66	ug/L	U	1.66	5.00	5.00	1	MS	SKJ	09/16/22 19:54	220916-1	2314847
7440-39-3	Barium	53.7	ug/L		0.500	2.00	2.00	1	MS	SKJ	09/17/22 14:27	220917-2	2314847
7440-41-7	Beryllium	0.233	ug/L	J	0.200	0.500	0.500	1	MS	SKJ	09/16/22 19:54	220916-1	2314847
7440-42-8	Boron	16.5	ug/L		4.00	15.0	15.0	1	MS	SKJ	09/16/22 19:54	220916-1	2314847
7440-43-9	Cadmium	0.0300	ug/L	U	0.0300	0.100	0.100	1	MS	SKJ	09/17/22 14:27	220917-2	2314847
7440-70-2	Calcium	489	ug/L		30.0	100	100	1	MS	SKJ	09/20/22 12:35	220920-4	2314847
7440-47-3	Chromium	1.00	ug/L	U	1.00	3.00	3.00	1	MS	SKJ	09/16/22 19:54	220916-1	2314847
7440-48-4	Cobalt	0.506	ug/L	J	0.100	1.00	1.00	1	MS	SKJ	09/16/22 19:54	220916-1	2314847
7439-92-1	Lead	1.20	ug/L	J	0.500	2.00	2.00	1	MS	SKJ	09/16/22 19:54	220916-1	2314847
7439-93-2	Lithium	2.00	ug/L	U	2.00	10.0	10.0	1	MS	SKJ	09/16/22 19:54	220916-1	2314847
7439-97-6	Mercury	0.0670	ug/L	U	0.0670	0.200	0.200	1	AV	JP2	09/14/22 09:32	091422W1-5	2315615
7439-98-7	Molybdenum	0.167	ug/L	U	0.167	1.00	1.00	1	MS	SKJ	09/20/22 10:47	220920-3	2314847
7782-49-2	Selenium	1.50	ug/L	U	1.50	5.00	5.00	1	MS	SKJ	09/16/22 19:54	220916-1	2314847
7440-28-0	Thallium	0.125	ug/L	U	0.125	0.500	0.500	1	MS	SKJ	09/16/22 19:54	220916-1	2314847

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2314847	2314845	EPA 200.2	50	mL	50	mL	09/12/22	CD3
2315615	2315614	EPA 245.1/245.2 Prep	20	mL	20	mL	09/13/22	RM4

***Analytical Methods:**

MS **EPA 200.8 SC_NPDES**
AV **EPA 245.1/245.2**

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 592596

CONTRACT: DMNN00101

METHOD TYPE: EPA

SAMPLE ID:592596002

BASIS: As Received

DATE COLLECTED 08-SEP-22

CLIENT ID: FBLK-WAT-CCR-AP-2230

LEVEL: Low

DATE RECEIVED 09-SEP-22

MATRIX: GW

%SOLIDS: 0

CAS	Analyte	Result	Units	Qual	MDL	PQL	CRDL	DF	M*	Analyst	Run Date	Analytical Run	Analytical Batch
7440-36-0	Antimony	0.600	ug/L	U	0.600	2.00	2.00	1	MS	SKJ	09/16/22 20:11	220916-1	2314847
7440-38-2	Arsenic	1.66	ug/L	U	1.66	5.00	5.00	1	MS	SKJ	09/16/22 20:11	220916-1	2314847
7440-39-3	Barium	0.500	ug/L	U	0.500	2.00	2.00	1	MS	SKJ	09/17/22 14:44	220917-2	2314847
7440-41-7	Beryllium	0.200	ug/L	U	0.200	0.500	0.500	1	MS	SKJ	09/16/22 20:11	220916-1	2314847
7440-42-8	Boron	4.00	ug/L	U	4.00	15.0	15.0	1	MS	SKJ	09/16/22 20:11	220916-1	2314847
7440-43-9	Cadmium	0.0300	ug/L	U	0.0300	0.100	0.100	1	MS	SKJ	09/17/22 14:44	220917-2	2314847
7440-70-2	Calcium	30.0	ug/L	U	30.0	100	100	1	MS	SKJ	09/20/22 12:45	220920-4	2314847
7440-47-3	Chromium	1.00	ug/L	U	1.00	3.00	3.00	1	MS	SKJ	09/16/22 20:11	220916-1	2314847
7440-48-4	Cobalt	0.100	ug/L	U	0.100	1.00	1.00	1	MS	SKJ	09/16/22 20:11	220916-1	2314847
7439-92-1	Lead	0.500	ug/L	U	0.500	2.00	2.00	1	MS	SKJ	09/16/22 20:11	220916-1	2314847
7439-93-2	Lithium	2.00	ug/L	U	2.00	10.0	10.0	1	MS	SKJ	09/16/22 20:11	220916-1	2314847
7439-97-6	Mercury	0.0670	ug/L	U	0.0670	0.200	0.200	1	AV	JP2	09/14/22 09:34	091422W1-5	2315615
7439-98-7	Molybdenum	0.167	ug/L	U	0.167	1.00	1.00	1	MS	SKJ	09/20/22 10:59	220920-3	2314847
7782-49-2	Selenium	1.50	ug/L	U	1.50	5.00	5.00	1	MS	SKJ	09/16/22 20:11	220916-1	2314847
7440-28-0	Thallium	0.125	ug/L	U	0.125	0.500	0.500	1	MS	SKJ	09/16/22 20:11	220916-1	2314847

Prep Information:

Analytical Batch	Prep Batch	Prep Method	Initial wt./vol.	Units	Final wt./vol.	Units	Date	Analyst
2314847	2314845	EPA 200.2	50	mL	50	mL	09/12/22	CD3
2315615	2315614	EPA 245.1/245.2 Prep	20	mL	20	mL	09/13/22	RM4

***Analytical Methods:**

MS **EPA 200.8 SC_NPDES**
AV **EPA 245.1/245.2**

Quality Control Summary

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

Instrument ID: HG4,ICPMS14

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICV01										
	Mercury	5.05	ug/L	5	ug/L	101	95.0 – 105.0	AV	14-SEP-22 09:20	091422W1-5
	Antimony	50.3	ug/L	50	ug/L	100.6	90.0 – 110.0	MS	16-SEP-22 18:29	220916-1
	Arsenic	50.9	ug/L	50	ug/L	101.8	90.0 – 110.0	MS	16-SEP-22 18:29	220916-1
	Beryllium	49.4	ug/L	50	ug/L	98.8	90.0 – 110.0	MS	16-SEP-22 18:29	220916-1
	Boron	103	ug/L	100	ug/L	102.6	90.0 – 110.0	MS	16-SEP-22 18:29	220916-1
	Chromium	50.2	ug/L	50	ug/L	100.5	90.0 – 110.0	MS	16-SEP-22 18:29	220916-1
	Cobalt	50.4	ug/L	50	ug/L	100.9	90.0 – 110.0	MS	16-SEP-22 18:29	220916-1
	Lead	51.7	ug/L	50	ug/L	103.5	90.0 – 110.0	MS	16-SEP-22 18:29	220916-1
	Lithium	49.6	ug/L	50	ug/L	99.2	90.0 – 110.0	MS	16-SEP-22 18:29	220916-1
	Selenium	52.4	ug/L	50	ug/L	104.7	90.0 – 110.0	MS	16-SEP-22 18:29	220916-1
	Thallium	50.9	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	16-SEP-22 18:29	220916-1
	Barium	50.9	ug/L	50	ug/L	101.8	90.0 – 110.0	MS	17-SEP-22 13:02	220917-2
	Cadmium	50.5	ug/L	50	ug/L	101	90.0 – 110.0	MS	17-SEP-22 13:02	220917-2
	Molybdenum	52.5	ug/L	50	ug/L	105.1	90.0 – 110.0	MS	20-SEP-22 10:24	220920-3
	Calcium	4970	ug/L	5000	ug/L	99.5	90.0 – 110.0	MS	20-SEP-22 12:18	220920-4
CCV01										
	Mercury	5.03	ug/L	5	ug/L	100.7	90.0 – 110.0	AV	14-SEP-22 09:25	091422W1-5
	Antimony	48.6	ug/L	50	ug/L	97.2	90.0 – 110.0	MS	16-SEP-22 18:47	220916-1
	Arsenic	49.5	ug/L	50	ug/L	99.1	90.0 – 110.0	MS	16-SEP-22 18:47	220916-1
	Beryllium	50.7	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	16-SEP-22 18:47	220916-1
	Boron	97.5	ug/L	100	ug/L	97.5	90.0 – 110.0	MS	16-SEP-22 18:47	220916-1
	Chromium	50.2	ug/L	50	ug/L	100.4	90.0 – 110.0	MS	16-SEP-22 18:47	220916-1
	Cobalt	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	16-SEP-22 18:47	220916-1
	Lead	50.5	ug/L	50	ug/L	100.9	90.0 – 110.0	MS	16-SEP-22 18:47	220916-1
	Lithium	50.6	ug/L	50	ug/L	101.2	90.0 – 110.0	MS	16-SEP-22 18:47	220916-1
	Selenium	49.9	ug/L	50	ug/L	99.9	90.0 – 110.0	MS	16-SEP-22 18:47	220916-1
	Thallium	50.5	ug/L	50	ug/L	101	90.0 – 110.0	MS	16-SEP-22 18:47	220916-1
	Barium	50.7	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	17-SEP-22 13:20	220917-2
	Cadmium	50.8	ug/L	50	ug/L	101.6	90.0 – 110.0	MS	17-SEP-22 13:20	220917-2
	Molybdenum	52.4	ug/L	50	ug/L	104.7	90.0 – 110.0	MS	20-SEP-22 10:36	220920-3
	Calcium	4980	ug/L	5000	ug/L	99.6	90.0 – 110.0	MS	20-SEP-22 12:27	220920-4

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

Instrument ID: HG4,ICPMS14

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CCV02										
	Mercury	5.1	ug/L	5	ug/L	101.9	90.0 – 110.0	AV	14-SEP-22 09:37	091422W1-5
	Antimony	50.5	ug/L	50	ug/L	100.9	90.0 – 110.0	MS	16-SEP-22 18:57	220916-1
	Arsenic	49.5	ug/L	50	ug/L	99	90.0 – 110.0	MS	16-SEP-22 18:57	220916-1
	Beryllium	51.9	ug/L	50	ug/L	103.9	90.0 – 110.0	MS	16-SEP-22 18:57	220916-1
	Boron	98.9	ug/L	100	ug/L	98.9	90.0 – 110.0	MS	16-SEP-22 18:57	220916-1
	Chromium	51.3	ug/L	50	ug/L	102.6	90.0 – 110.0	MS	16-SEP-22 18:57	220916-1
	Cobalt	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	16-SEP-22 18:57	220916-1
	Lead	52.5	ug/L	50	ug/L	105	90.0 – 110.0	MS	16-SEP-22 18:57	220916-1
	Lithium	51.4	ug/L	50	ug/L	102.8	90.0 – 110.0	MS	16-SEP-22 18:57	220916-1
	Selenium	50.1	ug/L	50	ug/L	100.2	90.0 – 110.0	MS	16-SEP-22 18:57	220916-1
	Thallium	50.9	ug/L	50	ug/L	101.9	90.0 – 110.0	MS	16-SEP-22 18:57	220916-1
	Barium	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	17-SEP-22 13:30	220917-2
	Cadmium	50.8	ug/L	50	ug/L	101.6	90.0 – 110.0	MS	17-SEP-22 13:30	220917-2
	Molybdenum	51.5	ug/L	50	ug/L	103	90.0 – 110.0	MS	20-SEP-22 11:10	220920-3
	Calcium	4870	ug/L	5000	ug/L	97.4	90.0 – 110.0	MS	20-SEP-22 12:53	220920-4
CCV03										
	Mercury	5.1	ug/L	5	ug/L	101.9	90.0 – 110.0	AV	14-SEP-22 10:15	091422W1-5
	Antimony	49.1	ug/L	50	ug/L	98.2	90.0 – 110.0	MS	16-SEP-22 19:39	220916-1
	Arsenic	48.6	ug/L	50	ug/L	97.2	90.0 – 110.0	MS	16-SEP-22 19:39	220916-1
	Beryllium	50.3	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	16-SEP-22 19:39	220916-1
	Boron	94.9	ug/L	100	ug/L	94.9	90.0 – 110.0	MS	16-SEP-22 19:39	220916-1
	Chromium	49.9	ug/L	50	ug/L	99.8	90.0 – 110.0	MS	16-SEP-22 19:39	220916-1
	Cobalt	50.1	ug/L	50	ug/L	100.1	90.0 – 110.0	MS	16-SEP-22 19:39	220916-1
	Lead	50.3	ug/L	50	ug/L	100.6	90.0 – 110.0	MS	16-SEP-22 19:39	220916-1
	Lithium	50.8	ug/L	50	ug/L	101.5	90.0 – 110.0	MS	16-SEP-22 19:39	220916-1
	Selenium	49.2	ug/L	50	ug/L	98.4	90.0 – 110.0	MS	16-SEP-22 19:39	220916-1
	Thallium	49.5	ug/L	50	ug/L	99	90.0 – 110.0	MS	16-SEP-22 19:39	220916-1
	Barium	50.2	ug/L	50	ug/L	100.5	90.0 – 110.0	MS	17-SEP-22 14:12	220917-2
	Cadmium	50.3	ug/L	50	ug/L	100.6	90.0 – 110.0	MS	17-SEP-22 14:12	220917-2
CCV04										
	Mercury	5.08	ug/L	5	ug/L	101.6	90.0 – 110.0	AV	14-SEP-22 10:36	091422W1-5

METALS
-2a-
Initial and Continuing Calibration Verification

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

Instrument ID: HG4,ICPMS14

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Antimony	49.7	ug/L	50	ug/L	99.4	90.0 – 110.0	MS	16-SEP-22 20:25	220916-1
	Arsenic	48.7	ug/L	50	ug/L	97.3	90.0 – 110.0	MS	16-SEP-22 20:25	220916-1
	Beryllium	51.1	ug/L	50	ug/L	102.3	90.0 – 110.0	MS	16-SEP-22 20:25	220916-1
	Boron	95.9	ug/L	100	ug/L	95.9	90.0 – 110.0	MS	16-SEP-22 20:25	220916-1
	Chromium	50.4	ug/L	50	ug/L	100.7	90.0 – 110.0	MS	16-SEP-22 20:25	220916-1
	Cobalt	51.5	ug/L	50	ug/L	102.9	90.0 – 110.0	MS	16-SEP-22 20:25	220916-1
	Lead	51.3	ug/L	50	ug/L	102.5	90.0 – 110.0	MS	16-SEP-22 20:25	220916-1
	Lithium	51.6	ug/L	50	ug/L	103.2	90.0 – 110.0	MS	16-SEP-22 20:25	220916-1
	Selenium	49.8	ug/L	50	ug/L	99.6	90.0 – 110.0	MS	16-SEP-22 20:25	220916-1
	Thallium	50.7	ug/L	50	ug/L	101.4	90.0 – 110.0	MS	16-SEP-22 20:25	220916-1
	Barium	50.6	ug/L	50	ug/L	101.3	90.0 – 110.0	MS	17-SEP-22 14:58	220917-2
	Cadmium	49.6	ug/L	50	ug/L	99.1	90.0 – 110.0	MS	17-SEP-22 14:58	220917-2

*Analytical Methods:

MS EPA 200.8 SC_NPDES

AV EPA 245.1/245.2

METALS
-2b-
CRDL Standard for ICP & ICPMS

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

Instrument ID: HG4,ICPMS14

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL01	Mercury	.213	ug/L	.2	ug/L	106.5	70.0 – 130.0	AV	14-SEP-22 09:24	091422W1-5
	Antimony	3.07	ug/L	3	ug/L	102.4	70.0 – 130.0	MS	16-SEP-22 18:36	220916-1
	Arsenic	4.93	ug/L	5	ug/L	98.6	70.0 – 130.0	MS	16-SEP-22 18:36	220916-1
	Beryllium	.596	ug/L	.5	ug/L	119.2	70.0 – 130.0	MS	16-SEP-22 18:36	220916-1
	Boron	17.5	ug/L	15	ug/L	116.3	70.0 – 130.0	MS	16-SEP-22 18:36	220916-1
	Chromium	9.96	ug/L	10	ug/L	99.6	70.0 – 130.0	MS	16-SEP-22 18:36	220916-1
	Cobalt	1.06	ug/L	1	ug/L	105.9	70.0 – 130.0	MS	16-SEP-22 18:36	220916-1
	Lead	2.12	ug/L	2	ug/L	105.9	70.0 – 130.0	MS	16-SEP-22 18:36	220916-1
	Lithium	10.3	ug/L	10	ug/L	103.1	70.0 – 130.0	MS	16-SEP-22 18:36	220916-1
	Selenium	5.41	ug/L	5	ug/L	108.2	70.0 – 130.0	MS	16-SEP-22 18:36	220916-1
	Thallium	2.06	ug/L	2	ug/L	102.8	70.0 – 130.0	MS	16-SEP-22 18:36	220916-1
	Barium	4.13	ug/L	4	ug/L	103.3	70.0 – 130.0	MS	17-SEP-22 13:09	220917-2
	Cadmium	1.04	ug/L	1	ug/L	103.8	70.0 – 130.0	MS	17-SEP-22 13:09	220917-2
	Molybdenum	1.06	ug/L	1	ug/L	105.7	70.0 – 130.0	MS	20-SEP-22 10:29	220920-3
	Calcium	252	ug/L	200	ug/L	126.2	70.0 – 130.0	MS	20-SEP-22 12:21	220920-4
CRDL02	Mercury	.216	ug/L	.2	ug/L	108	70.0 – 130.0	AV	14-SEP-22 09:36	091422W1-5
	Antimony	3.2	ug/L	3	ug/L	106.5	70.0 – 130.0	MS	16-SEP-22 19:29	220916-1
	Arsenic	5.1	ug/L	5	ug/L	102	70.0 – 130.0	MS	16-SEP-22 19:29	220916-1
	Beryllium	.583	ug/L	.5	ug/L	116.6	70.0 – 130.0	MS	16-SEP-22 19:29	220916-1
	Boron	18.6	ug/L	15	ug/L	123.8	70.0 – 130.0	MS	16-SEP-22 19:29	220916-1
	Chromium	10.4	ug/L	10	ug/L	103.8	70.0 – 130.0	MS	16-SEP-22 19:29	220916-1
	Cobalt	1.08	ug/L	1	ug/L	107.6	70.0 – 130.0	MS	16-SEP-22 19:29	220916-1
	Lead	2.14	ug/L	2	ug/L	107.1	70.0 – 130.0	MS	16-SEP-22 19:29	220916-1
	Lithium	11.1	ug/L	10	ug/L	110.8	70.0 – 130.0	MS	16-SEP-22 19:29	220916-1
	Selenium	4.72	ug/L	5	ug/L	94.5	70.0 – 130.0	MS	16-SEP-22 19:29	220916-1
	Thallium	2.07	ug/L	2	ug/L	103.6	70.0 – 130.0	MS	16-SEP-22 19:29	220916-1
	Barium	4.1	ug/L	4	ug/L	102.6	70.0 – 130.0	MS	17-SEP-22 14:02	220917-2
	Cadmium	1.04	ug/L	1	ug/L	104	70.0 – 130.0	MS	17-SEP-22 14:02	220917-2
	Molybdenum	1.01	ug/L	1	ug/L	100.9	70.0 – 130.0	MS	20-SEP-22 11:02	220920-3
	Calcium	239	ug/L	200	ug/L	119.6	70.0 – 130.0	MS	20-SEP-22 12:47	220920-4

METALS
-2b-
CRDL Standard for ICP & ICPMS

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

Instrument ID: HG4,ICPMS14

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Advisory Limits (%R)</u>	<u>M*</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
CRDL03										
	Mercury	.225	ug/L	.2	ug/L	112.5	70.0 – 130.0	AV	14-SEP-22 10:13	091422W1-5
	Antimony	3.08	ug/L	3	ug/L	102.5	70.0 – 130.0	MS	16-SEP-22 20:15	220916-1
	Arsenic	4.96	ug/L	5	ug/L	99.2	70.0 – 130.0	MS	16-SEP-22 20:15	220916-1
	Beryllium	.525	ug/L	.5	ug/L	105	70.0 – 130.0	MS	16-SEP-22 20:15	220916-1
	Boron	16.8	ug/L	15	ug/L	111.7	70.0 – 130.0	MS	16-SEP-22 20:15	220916-1
	Chromium	10.2	ug/L	10	ug/L	102.4	70.0 – 130.0	MS	16-SEP-22 20:15	220916-1
	Cobalt	1.08	ug/L	1	ug/L	107.6	70.0 – 130.0	MS	16-SEP-22 20:15	220916-1
	Lead	2.15	ug/L	2	ug/L	107.6	70.0 – 130.0	MS	16-SEP-22 20:15	220916-1
	Lithium	11.2	ug/L	10	ug/L	111.8	70.0 – 130.0	MS	16-SEP-22 20:15	220916-1
	Selenium	4.81	ug/L	5	ug/L	96.2	70.0 – 130.0	MS	16-SEP-22 20:15	220916-1
	Thallium	2.07	ug/L	2	ug/L	103.5	70.0 – 130.0	MS	16-SEP-22 20:15	220916-1
	Barium	4.12	ug/L	4	ug/L	103	70.0 – 130.0	MS	17-SEP-22 14:48	220917-2
	Cadmium	1.01	ug/L	1	ug/L	100.8	70.0 – 130.0	MS	17-SEP-22 14:48	220917-2

***Analytical Methods:**

MS EPA 200.8 SC_NPDES
 AV EPA 245.1/245.2

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 592596

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M*</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
ICB01										
	Mercury	0.067	+/-1	U	0.067	0.2	LIQ	AV	14-SEP-22 09:22	091422W1-5
	Antimony	0.6	+/-1	U	0.6	2.0	LIQ	MS	16-SEP-22 18:33	220916-1
	Arsenic	1.66	+/-2.5	U	1.66	5.0	LIQ	MS	16-SEP-22 18:33	220916-1
	Beryllium	0.2	+/-0.25	U	0.2	0.5	LIQ	MS	16-SEP-22 18:33	220916-1
	Boron	6.66	+/-7.5	B	4.0	15.0	LIQ	MS	16-SEP-22 18:33	220916-1
	Chromium	1.0	+/-1.5	U	1.0	3.0	LIQ	MS	16-SEP-22 18:33	220916-1
	Cobalt	0.1	+/-0.5	U	0.1	1.0	LIQ	MS	16-SEP-22 18:33	220916-1
	Lead	0.5	+/-1	U	0.5	2.0	LIQ	MS	16-SEP-22 18:33	220916-1
	Lithium	2.0	+/-5	U	2.0	10.0	LIQ	MS	16-SEP-22 18:33	220916-1
	Selenium	1.5	+/-2.5	U	1.5	5.0	LIQ	MS	16-SEP-22 18:33	220916-1
	Thallium	0.125	+/-0.25	U	0.125	0.5	LIQ	MS	16-SEP-22 18:33	220916-1
	Barium	0.5	+/-1	U	0.5	2.0	LIQ	MS	17-SEP-22 13:05	220917-2
	Cadmium	0.03	+/-0.05	U	0.03	0.1	LIQ	MS	17-SEP-22 13:05	220917-2
	Molybdenum	0.167	+/-0.5	U	0.167	1.0	LIQ	MS	20-SEP-22 10:26	220920-3
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	20-SEP-22 12:19	220920-4
CCB01										
	Mercury	0.067	+/-1	U	0.067	0.2	LIQ	AV	14-SEP-22 09:27	091422W1-5
	Antimony	0.6	+/-1	U	0.6	2.0	LIQ	MS	16-SEP-22 18:50	220916-1
	Arsenic	1.66	+/-2.5	U	1.66	5.0	LIQ	MS	16-SEP-22 18:50	220916-1
	Beryllium	0.2	+/-0.25	U	0.2	0.5	LIQ	MS	16-SEP-22 18:50	220916-1
	Boron	4.5	+/-7.5	B	4.0	15.0	LIQ	MS	16-SEP-22 18:50	220916-1
	Chromium	1.0	+/-1.5	U	1.0	3.0	LIQ	MS	16-SEP-22 18:50	220916-1
	Cobalt	0.1	+/-0.5	U	0.1	1.0	LIQ	MS	16-SEP-22 18:50	220916-1
	Lead	0.5	+/-1	U	0.5	2.0	LIQ	MS	16-SEP-22 18:50	220916-1
	Lithium	2.0	+/-5	U	2.0	10.0	LIQ	MS	16-SEP-22 18:50	220916-1
	Selenium	1.5	+/-2.5	U	1.5	5.0	LIQ	MS	16-SEP-22 18:50	220916-1
	Thallium	0.125	+/-0.25	U	0.125	0.5	LIQ	MS	16-SEP-22 18:50	220916-1
	Barium	0.5	+/-1	U	0.5	2.0	LIQ	MS	17-SEP-22 13:23	220917-2
	Cadmium	0.03	+/-0.05	U	0.03	0.1	LIQ	MS	17-SEP-22 13:23	220917-2
	Molybdenum	0.167	+/-0.5	U	0.167	1.0	LIQ	MS	20-SEP-22 10:39	220920-3
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	20-SEP-22 12:29	220920-4

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 592596

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M*</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
CCB02										
	Mercury	0.067	+/-1	U	0.067	0.2	LIQ	AV	14-SEP-22 09:39	091422W1-5
	Antimony	0.6	+/-1	U	0.6	2.0	LIQ	MS	16-SEP-22 19:01	220916-1
	Arsenic	1.66	+/-2.5	U	1.66	5.0	LIQ	MS	16-SEP-22 19:01	220916-1
	Beryllium	0.2	+/-0.25	U	0.2	0.5	LIQ	MS	16-SEP-22 19:01	220916-1
	Boron	4.0	+/-7.5	U	4.0	15.0	LIQ	MS	16-SEP-22 19:01	220916-1
	Chromium	1.0	+/-1.5	U	1.0	3.0	LIQ	MS	16-SEP-22 19:01	220916-1
	Cobalt	0.142	+/-0.5	B	0.1	1.0	LIQ	MS	16-SEP-22 19:01	220916-1
	Lead	0.661	+/-1	B	0.5	2.0	LIQ	MS	16-SEP-22 19:01	220916-1
	Lithium	2.0	+/-5	U	2.0	10.0	LIQ	MS	16-SEP-22 19:01	220916-1
	Selenium	1.5	+/-2.5	U	1.5	5.0	LIQ	MS	16-SEP-22 19:01	220916-1
	Thallium	0.125	+/-0.25	U	0.125	0.5	LIQ	MS	16-SEP-22 19:01	220916-1
	Barium	0.5	+/-1	U	0.5	2.0	LIQ	MS	17-SEP-22 13:34	220917-2
	Cadmium	0.03	+/-0.05	U	0.03	0.1	LIQ	MS	17-SEP-22 13:34	220917-2
	Molybdenum	0.167	+/-0.5	U	0.167	1.0	LIQ	MS	20-SEP-22 11:12	220920-3
	Calcium	30.0	+/-50	U	30.0	100	LIQ	MS	20-SEP-22 12:55	220920-4
CCB03										
	Mercury	0.067	+/-1	U	0.067	0.2	LIQ	AV	14-SEP-22 10:17	091422W1-5
	Antimony	0.6	+/-1	U	0.6	2.0	LIQ	MS	16-SEP-22 19:43	220916-1
	Arsenic	1.66	+/-2.5	U	1.66	5.0	LIQ	MS	16-SEP-22 19:43	220916-1
	Beryllium	0.2	+/-0.25	U	0.2	0.5	LIQ	MS	16-SEP-22 19:43	220916-1
	Boron	4.65	+/-7.5	B	4.0	15.0	LIQ	MS	16-SEP-22 19:43	220916-1
	Chromium	1.0	+/-1.5	U	1.0	3.0	LIQ	MS	16-SEP-22 19:43	220916-1
	Cobalt	0.1	+/-0.5	U	0.1	1.0	LIQ	MS	16-SEP-22 19:43	220916-1
	Lead	0.5	+/-1	U	0.5	2.0	LIQ	MS	16-SEP-22 19:43	220916-1
	Lithium	2.0	+/-5	U	2.0	10.0	LIQ	MS	16-SEP-22 19:43	220916-1
	Selenium	1.5	+/-2.5	U	1.5	5.0	LIQ	MS	16-SEP-22 19:43	220916-1
	Thallium	0.125	+/-0.25	U	0.125	0.5	LIQ	MS	16-SEP-22 19:43	220916-1
	Barium	0.5	+/-1	U	0.5	2.0	LIQ	MS	17-SEP-22 14:16	220917-2
	Cadmium	0.03	+/-0.05	U	0.03	0.1	LIQ	MS	17-SEP-22 14:16	220917-2
CCB04										
	Mercury	0.067	+/-1	U	0.067	0.2	LIQ	AV	14-SEP-22 10:38	091422W1-5

Metals
-3a-
Initial and Continuing Calibration Blank Summary

SDG No.: 592596

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u> <u>ug/L</u>	<u>Acceptance</u>	<u>Conc</u> <u>Qual</u>	<u>MDL</u>	<u>RDL</u>	<u>Matrix</u>	<u>M*</u>	<u>Analysis</u> <u>Date/Time</u>	<u>Run</u>
	Antimony	0.6	+/-1	U	0.6	2.0	LIQ	MS	16-SEP-22 20:29	220916-1
	Arsenic	1.66	+/-2.5	U	1.66	5.0	LIQ	MS	16-SEP-22 20:29	220916-1
	Beryllium	0.2	+/-0.25	U	0.2	0.5	LIQ	MS	16-SEP-22 20:29	220916-1
	Boron	4.11	+/-7.5	B	4.0	15.0	LIQ	MS	16-SEP-22 20:29	220916-1
	Chromium	1.0	+/-1.5	U	1.0	3.0	LIQ	MS	16-SEP-22 20:29	220916-1
	Cobalt	0.1	+/-0.5	U	0.1	1.0	LIQ	MS	16-SEP-22 20:29	220916-1
	Lead	0.5	+/-1	U	0.5	2.0	LIQ	MS	16-SEP-22 20:29	220916-1
	Lithium	2.0	+/-5	U	2.0	10.0	LIQ	MS	16-SEP-22 20:29	220916-1
	Selenium	1.5	+/-2.5	U	1.5	5.0	LIQ	MS	16-SEP-22 20:29	220916-1
	Thallium	0.125	+/-0.25	U	0.125	0.5	LIQ	MS	16-SEP-22 20:29	220916-1
	Barium	0.5	+/-1	U	0.5	2.0	LIQ	MS	17-SEP-22 15:02	220917-2
	Cadmium	0.03	+/-0.05	U	0.03	0.1	LIQ	MS	17-SEP-22 15:02	220917-2

***Analytical Methods:**

MS	EPA 200.8 SC_NPDES
AV	EPA 245.1/245.2

METALS
-3b-
PREPARATION BLANK SUMMARY

SDG NO. 592596
Contract: DMNN00101
Matrix: GW

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Acceptance Window</u>	<u>Conc Qual</u>	<u>M*</u>	<u>MDL</u>	<u>RDL</u>
1205187670	Antimony	0.600	ug/L	+/-1	U	MS	0.600	2.00
	Arsenic	1.66	ug/L	+/-2.5	U	MS	1.66	5.00
	Barium	0.500	ug/L	+/-1	U	MS	0.500	2.00
	Beryllium	0.200	ug/L	+/-0.25	U	MS	0.200	0.500
	Boron	4.00	ug/L	+/-7.5	U	MS	4.00	15.0
	Cadmium	0.0300	ug/L	+/-0.05	U	MS	0.0300	0.100
	Calcium	30.0	ug/L	+/-50	U	MS	30.0	100
	Chromium	1.00	ug/L	+/-1.5	U	MS	1.00	3.00
	Cobalt	0.100	ug/L	+/-0.5	U	MS	0.100	1.00
	Lead	0.500	ug/L	+/-1	U	MS	0.500	2.00
	Lithium	2.00	ug/L	+/-5	U	MS	2.00	10.0
	Molybdenum	0.167	ug/L	+/-0.5	U	MS	0.167	1.00
	Selenium	1.50	ug/L	+/-2.5	U	MS	1.50	5.00
	Thallium	0.125	ug/L	+/-0.25	U	MS	0.125	0.500
1205189376	Mercury	0.0670	ug/L	+/-0.1	U	AV	0.0670	0.200

*Analytical Methods:

MS EPA 200.8 SC_NPDES
AV EPA 245.1/245.2

METALS
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Interference Check Sample

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

Instrument: ICPMS14

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Antimony	0.206	ug/L					16-SEP-22 18:40	220916-1
	Arsenic	0.201	ug/L					16-SEP-22 18:40	220916-1
	Beryllium	0.011	ug/L					16-SEP-22 18:40	220916-1
	Boron	3.88	ug/L					16-SEP-22 18:40	220916-1
	Chromium	0.75	ug/L					16-SEP-22 18:40	220916-1
	Cobalt	0.988	ug/L					16-SEP-22 18:40	220916-1
	Lead	0.508	ug/L					16-SEP-22 18:40	220916-1
	Lithium	0.037	ug/L					16-SEP-22 18:40	220916-1
	Selenium	0.364	ug/L					16-SEP-22 18:40	220916-1
	Thallium	0.027	ug/L					16-SEP-22 18:40	220916-1
ICSA01									
	Antimony	19.8	ug/L	20	ug/L	98.8	80.0 – 120.0	16-SEP-22 18:43	220916-1
	Arsenic	20.0	ug/L	20	ug/L	100	80.0 – 120.0	16-SEP-22 18:43	220916-1
	Beryllium	18.3	ug/L	20	ug/L	91.3	80.0 – 120.0	16-SEP-22 18:43	220916-1
	Boron	22.1	ug/L	20	ug/L	111	80.0 – 120.0	16-SEP-22 18:43	220916-1
	Chromium	21.8	ug/L	20	ug/L	109	80.0 – 120.0	16-SEP-22 18:43	220916-1
	Cobalt	21.1	ug/L	21.05	ug/L	100	80.0 – 120.0	16-SEP-22 18:43	220916-1
	Lead	22.7	ug/L	20	ug/L	113	80.0 – 120.0	16-SEP-22 18:43	220916-1
	Lithium	20.6	ug/L	20	ug/L	103	80.0 – 120.0	16-SEP-22 18:43	220916-1
	Selenium	18.3	ug/L	20	ug/L	91.5	80.0 – 120.0	16-SEP-22 18:43	220916-1
	Thallium	22.0	ug/L	20	ug/L	110	80.0 – 120.0	16-SEP-22 18:43	220916-1
ICSA02									
	Antimony	0.32	ug/L					16-SEP-22 19:32	220916-1
	Arsenic	0.237	ug/L					16-SEP-22 19:32	220916-1
	Beryllium	0.023	ug/L					16-SEP-22 19:32	220916-1
	Boron	4.5	ug/L					16-SEP-22 19:32	220916-1
	Chromium	0.76	ug/L					16-SEP-22 19:32	220916-1
	Cobalt	0.953	ug/L					16-SEP-22 19:32	220916-1
	Lead	0.523	ug/L					16-SEP-22 19:32	220916-1
	Lithium	0.064	ug/L					16-SEP-22 19:32	220916-1

METALS
-4-
Interference Check Sample

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Selenium	0.413	ug/L					16-SEP-22 19:32	220916-1
	Thallium	0.037	ug/L					16-SEP-22 19:32	220916-1
ICSAB02									
	Antimony	20.0	ug/L	20	ug/L	99.8	80.0 – 120.0	16-SEP-22 19:36	220916-1
	Arsenic	20.2	ug/L	20	ug/L	101	80.0 – 120.0	16-SEP-22 19:36	220916-1
	Beryllium	18.0	ug/L	20	ug/L	90	80.0 – 120.0	16-SEP-22 19:36	220916-1
	Boron	21.0	ug/L	20	ug/L	105	80.0 – 120.0	16-SEP-22 19:36	220916-1
	Chromium	21.1	ug/L	20	ug/L	105	80.0 – 120.0	16-SEP-22 19:36	220916-1
	Cobalt	21.1	ug/L	21.05	ug/L	100	80.0 – 120.0	16-SEP-22 19:36	220916-1
	Lead	22.3	ug/L	20	ug/L	111	80.0 – 120.0	16-SEP-22 19:36	220916-1
	Lithium	21.1	ug/L	20	ug/L	106	80.0 – 120.0	16-SEP-22 19:36	220916-1
	Selenium	18.7	ug/L	20	ug/L	93.4	80.0 – 120.0	16-SEP-22 19:36	220916-1
	Thallium	21.7	ug/L	20	ug/L	108	80.0 – 120.0	16-SEP-22 19:36	220916-1
ICSA03									
	Antimony	0.257	ug/L					16-SEP-22 20:18	220916-1
	Arsenic	0.285	ug/L					16-SEP-22 20:18	220916-1
	Beryllium	0.016	ug/L					16-SEP-22 20:18	220916-1
	Boron	3.7	ug/L					16-SEP-22 20:18	220916-1
	Chromium	0.749	ug/L					16-SEP-22 20:18	220916-1
	Cobalt	0.986	ug/L					16-SEP-22 20:18	220916-1
	Lead	0.5	ug/L					16-SEP-22 20:18	220916-1
	Lithium	0.057	ug/L					16-SEP-22 20:18	220916-1
	Selenium	0.449	ug/L					16-SEP-22 20:18	220916-1
	Thallium	0.027	ug/L					16-SEP-22 20:18	220916-1
ICSAB03									
	Antimony	20.1	ug/L	20	ug/L	101	80.0 – 120.0	16-SEP-22 20:22	220916-1
	Arsenic	20.4	ug/L	20	ug/L	102	80.0 – 120.0	16-SEP-22 20:22	220916-1
	Beryllium	18.8	ug/L	20	ug/L	93.8	80.0 – 120.0	16-SEP-22 20:22	220916-1
	Boron	21.5	ug/L	20	ug/L	107	80.0 – 120.0	16-SEP-22 20:22	220916-1
	Chromium	21.9	ug/L	20	ug/L	109	80.0 – 120.0	16-SEP-22 20:22	220916-1

METALS
-4-
Interference Check Sample

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
	Cobalt	21.3	ug/L	21.05	ug/L	101	80.0 – 120.0	16-SEP-22 20:22	220916-1
	Lead	22.6	ug/L	20	ug/L	113	80.0 – 120.0	16-SEP-22 20:22	220916-1
	Lithium	21.3	ug/L	20	ug/L	106	80.0 – 120.0	16-SEP-22 20:22	220916-1
	Selenium	18.9	ug/L	20	ug/L	94.7	80.0 – 120.0	16-SEP-22 20:22	220916-1
	Thallium	21.8	ug/L	20	ug/L	109	80.0 – 120.0	16-SEP-22 20:22	220916-1

METALS
-4-
Interference Check Sample

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

Instrument: ICPMS14

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01									
	Barium	0.285	ug/L					17-SEP-22 13:13	220917-2
	Cadmium	0.348	ug/L					17-SEP-22 13:13	220917-2
ICSAB01									
	Barium	22.7	ug/L	20	ug/L	114	80.0 – 120.0	17-SEP-22 13:16	220917-2
	Cadmium	18.8	ug/L	20.83	ug/L	90.2	80.0 – 120.0	17-SEP-22 13:16	220917-2
ICSA02									
	Barium	0.22	ug/L					17-SEP-22 14:05	220917-2
	Cadmium	0.392	ug/L					17-SEP-22 14:05	220917-2
ICSAB02									
	Barium	23.7	ug/L	20	ug/L	118	80.0 – 120.0	17-SEP-22 14:09	220917-2
	Cadmium	19.0	ug/L	20.83	ug/L	91.2	80.0 – 120.0	17-SEP-22 14:09	220917-2
ICSA03									
	Barium	0.202	ug/L					17-SEP-22 14:51	220917-2
	Cadmium	0.382	ug/L					17-SEP-22 14:51	220917-2
ICSAB03									
	Barium	23.7	ug/L	20	ug/L	118	80.0 – 120.0	17-SEP-22 14:55	220917-2
	Cadmium	18.9	ug/L	20.83	ug/L	90.7	80.0 – 120.0	17-SEP-22 14:55	220917-2

METALS
-4-
Interference Check Sample

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

Instrument: ICPMS14

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Molybdenum	1990	ug/L	2000	ug/L	99.7	80.0 – 120.0	20-SEP-22 10:31	220920-3
ICSAB01	Molybdenum	1990	ug/L	2000	ug/L	99.5	80.0 – 120.0	20-SEP-22 10:34	220920-3
ICSA02	Molybdenum	2030	ug/L	2000	ug/L	101	80.0 – 120.0	20-SEP-22 11:05	220920-3
ICSAB02	Molybdenum	2020	ug/L	2000	ug/L	101	80.0 – 120.0	20-SEP-22 11:07	220920-3

METALS
-4-
Interference Check Sample

SDG No: 592596

Contract: DMNN00101

Lab Code: GEL

Instrument: ICPMS14

<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>True Value</u>	<u>Units</u>	<u>% Recovery</u>	<u>Acceptance Window (%R)</u>	<u>Analysis Date/Time</u>	<u>Run Number</u>
ICSA01	Calcium	108000	ug/L	100000	ug/L	108	80.0 – 120.0	20-SEP-22 12:23	220920-4
ICSAB01	Calcium	99800	ug/L	100000	ug/L	99.8	80.0 – 120.0	20-SEP-22 12:25	220920-4
ICSA02	Calcium	109000	ug/L	100000	ug/L	109	80.0 – 120.0	20-SEP-22 12:49	220920-4
ICSAB02	Calcium	105000	ug/L	100000	ug/L	105	80.0 – 120.0	20-SEP-22 12:51	220920-4

METALS

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Matrix Spike Summary

SDG NO. 592596 Client ID: MW-AP-01A-2022Q3S

Contract: DMNN00101 Level: Low

Matrix: GROUND WATER % Solids:

Sample ID: 592596001 Spike ID: 1205187673

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M*</u>
Antimony	ug/L	75-125	51.3		0.600	U	50.0	102		MS
Arsenic	ug/L	75-125	51.8		1.66	U	50.0	103		MS
Barium	ug/L	75-125	106		53.7		50.0	105		MS
Beryllium	ug/L	75-125	56.3		0.233	B	50.0	112		MS
Boron	ug/L	75-125	118		16.5		100	102		MS
Cadmium	ug/L	75-125	51.0		0.0300	U	50.0	102		MS
Calcium	ug/L	75-125	2690		489		2000	110		MS
Chromium	ug/L	75-125	51.8		1.00	U	50.0	103		MS
Cobalt	ug/L	75-125	53.4		0.506	B	50.0	106		MS
Lead	ug/L	75-125	53.4		1.20	B	50.0	104		MS
Lithium	ug/L	75-125	55.9		2.00	U	50.0	108		MS
Molybdenum	ug/L	75-125	52.4		0.167	U	50.0	105		MS
Selenium	ug/L	75-125	51.2		1.50	U	50.0	101		MS
Thallium	ug/L	75-125	50.7		0.125	U	50.0	101		MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

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Matrix Spike Summary

SDG NO. 592596 Client ID: WST41-22-258088S

Contract: DMNN00101 Level: Low

Matrix: WATER % Solids:

Sample ID: 592621001 Spike ID: 1205189382

<u>Analyte</u>	<u>Units</u>	<u>Acceptance Limit</u>	<u>Spiked Result</u>	<u>C</u>	<u>Sample Result</u>	<u>C</u>	<u>Spike Added</u>	<u>% Recovery</u>	<u>Qual</u>	<u>M*</u>
Mercury	ug/L	75-125	2.58		0.0870	B	2.00	124		AV

*Analytical Methods:

AV EPA 245.1/245.2

Metals
-6-
Duplicate Sample Summary

SDG No.: 592596

Lab Code: GEL

Contract: DMNN00101

Client ID: MW-AP-01A-2022Q3D

Matrix: GROUND WATER

Level: Low

Sample ID: 592596001

Duplicate ID: 1205187672

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M*
Antimony	ug/L		0.600 U		0.600 U				MS
Arsenic	ug/L		1.66 U		1.66 U				MS
Barium	ug/L	+/-20%	53.7		53.9		.467		MS
Beryllium	ug/L	+/-1	0.233 B		0.233 B		0		MS
Boron	ug/L	+/-30	16.5		14.6 B		11.9		MS
Cadmium	ug/L		0.0300 U		0.0300 U				MS
Calcium	ug/L	+/-200	489		515		5.24		MS
Chromium	ug/L		1.00 U		1.00 U				MS
Cobalt	ug/L	+/-2	0.506 B		0.491 B		3.01		MS
Lead	ug/L	+/-4	1.20 B		1.16 B		3.49		MS
Lithium	ug/L		2.00 U		2.00 U				MS
Molybdenum	ug/L		0.167 U		0.270 B		200		MS
Selenium	ug/L		1.50 U		1.50 U				MS
Thallium	ug/L		0.125 U		0.125 U				MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

Metals
-6-
Duplicate Sample Summary

SDG No.: 592596

Lab Code: GEL

Contract: DMNN00101

Client ID: WST41-22-258088D

Matrix: WATER

Level: Low

Sample ID: 592621001

Duplicate ID: 1205189381

Percent Solids for Dup: N/A

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M*
Mercury	ug/L	+/- .4	0.0870	B	0.0900	B	3.39		AV

*Analytical Methods:
 AV EPA 245.1/245.2

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 592596

Contract: DMNN00101

Aqueous LCS Source: Enviromental Express

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M*</u>
1205187671								
	Antimony	ug/L	50.0	52.0		104	85-115	MS
	Arsenic	ug/L	50.0	52.9		106	85-115	MS
	Barium	ug/L	50.0	53.8		108	85-115	MS
	Beryllium	ug/L	50.0	53.1		106	85-115	MS
	Boron	ug/L	100	103		103	85-115	MS
	Cadmium	ug/L	50.0	54.1		108	85-115	MS
	Calcium	ug/L	2000	2250		112	85-115	MS
	Chromium	ug/L	50.0	52.8		106	85-115	MS
	Cobalt	ug/L	50.0	51.7		103	85-115	MS
	Lead	ug/L	50.0	53.4		107	85-115	MS
	Lithium	ug/L	50.0	54.3		109	80-120	MS
	Molybdenum	ug/L	50.0	53.2		106	85-115	MS
	Selenium	ug/L	50.0	52.5		105	85-115	MS
	Thallium	ug/L	50.0	51.9		104	85-115	MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

-7-

Laboratory Control Sample Summary

SDG NO. 592596

Contract: DMNN00101

Aqueous LCS Source:GEL

Solid LCS Source:

<u>Sample ID</u>	<u>Analyte</u>	<u>Units</u>	<u>True Value</u>	<u>Result</u>	<u>C</u>	<u>% Recovery</u>	<u>Acceptance Limit</u>	<u>M*</u>
1205189377	Mercury	ug/L	2.00	2.16		108	85-115	AV

*Analytical Methods:

AV EPA 245.1/245.2

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 592596 Client ID: MW-AP-01A-2022Q3L

Contract: DMNN00101

Matrix: LIQUID Level: Low

Sample ID: 592596001 Serial Dilution ID: 1205187674

<u>Analyte</u>	<u>Initial Value</u> ug/L	<u>C</u>	<u>Serial Value</u> ug/L	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M*</u>
Antimony	.6	U	3	U				MS
Arsenic	1.66	U	8.3	U				MS
Barium	53.7		51.5		3.991			MS
Beryllium	.233	B	1	U	73.82			MS
Boron	16.5		43.4	B	163.848			MS
Cadmium	.03	U	.15	U				MS
Calcium	489		503		2.89			MS
Chromium	1	U	5	U				MS
Cobalt	.506	B	.725	B	43.281			MS
Lead	1.2	B	2.5	U	18.729			MS
Lithium	2	U	10	U				MS
Molybdenum	.167	U	.835	U				MS
Selenium	1.5	U	7.5	U				MS
Thallium	.125	U	.625	U				MS

*Analytical Methods:

MS EPA 200.8 SC_NPDES

METALS

-9-

Serial Dilution Sample Summary

SDG NO. 592596 Client ID: WST41-22-258088L

Contract: DMNN00101

Matrix: LIQUID Level: Low

Sample ID: 592621001 Serial Dilution ID: 1205189383

<u>Analyte</u>	<u>Initial Value</u> ug/L	<u>C</u>	<u>Serial Value</u> ug/L	<u>C</u>	<u>% Difference</u>	<u>Qual</u>	<u>Acceptance Limit</u>	<u>M*</u>
Mercury	.087	B	.335	U	124.138			AV

*Analytical Methods:

AV EPA 245.1/245.2

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 592596

Method Type: MS

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	2314845						
1205187670	MB for batch 2314845	MB	G	12-SEP-22	50mL	50mL	
1205187671	LCS for batch 2314845	LCS	G	12-SEP-22	50mL	50mL	
1205187673	MW-AP-01A-2022Q3S	MS	G	12-SEP-22	50mL	50mL	
1205187672	MW-AP-01A-2022Q3D	DUP	G	12-SEP-22	50mL	50mL	
592596001	MW-AP-01A-2022Q3	SAMPLE	G	12-SEP-22	50mL	50mL	
592596002	FBLK-WAT-CCR-AP-22301	SAMPLE	G	12-SEP-22	50mL	50mL	

METALS
-13-
SAMPLE PREPARATION SUMMARY

SDG No: 592596

Method Type: AV

Contract: DMNN00101

Lab Code: GEL

<u>Sample ID</u>	<u>Client ID</u>	<u>Sample Type</u>	<u>Matrix</u>	<u>Prep Date</u>	<u>Initial Sample Size</u>	<u>Final Sample Volume</u>	<u>Percent Solids</u>
Batch Number	2315614						
1205189376	MB for batch 2315614	MB	G	13-SEP-22	20mL	20mL	
1205189377	LCS for batch 2315614	LCS	G	13-SEP-22	20mL	20mL	
1205189382	WST41-22-258088S	MS	W	13-SEP-22	20mL	20mL	
1205189381	WST41-22-258088D	DUP	W	13-SEP-22	20mL	20mL	
592596001	MW-AP-01A-2022Q3	SAMPLE	G	13-SEP-22	20mL	20mL	
592596002	FBLK-WAT-CCR-AP-22301	SAMPLE	G	13-SEP-22	20mL	20mL	

General Chem Analysis

Case Narrative

**General Chemistry
Technical Case Narrative
Dominion Energy
SDG #: 592596**

Product: Ion Chromatography

Analytical Method: EPA 300.0

Analytical Procedure: GL-GC-E-086 REV# 30

Analytical Batch: 2315794

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
592596001	MW-AP-01A-2022Q3
592596002	FBLK-WAT-CCR-AP-22301
1205189764	Method Blank (MB)
1205189765	Laboratory Control Sample (LCS)
1205189766	592607004(MW-FGD-04-2022Q3) Sample Duplicate (DUP)
1205189767	592607004(MW-FGD-04-2022Q3) Post Spike (PS)
1205189768	592592001(MW-LF-22-2022Q3) Sample Duplicate (DUP)
1205189769	592592001(MW-LF-22-2022Q3) Post Spike (PS)

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

Data Summary:

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

Quality Control (QC) Information

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

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

Analyte	Sample	Value
Chloride	1205189767 (MW-FGD-04-2022Q3PS)	114* (90%-110%)

Technical Information

Sample Dilutions

The following samples 1205189768 (MW-LF-22-2022Q3DUP) and 1205189769 (MW-LF-22-2022Q3PS) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Sample Re-analysis

Samples 1205189764 (MB), 1205189765 (LCS), 1205189768 (MW-LF-22-2022Q3DUP) and 1205189769

(MW-LF-22-2022Q3PS) were re-analyzed due to CCB failure. The reanalysis data with passing instrument QC was reported. Sample 1205189764 (MB) was re-analyzed due to (its) proximity to an overrange sample. The results from the reanalysis are reported. Sample 1205189764 (MB) was re-analyzed to verify the result.

Miscellaneous Information

Manual Integrations

Sample 1205189766 (MW-FGD-04-2022Q3DUP) was manually integrated to correctly position the baseline as set in the calibration standards.

Additional Comments

All method-driven specifications are followed for these analyses except where client-specific SOW requirements are required to be met.

Product: Solids, Total Dissolved
Analytical Method: SM 2540C
Analytical Procedure: GL-GC-E-001 REV# 19
Analytical Batch: 2316241

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
592596001	MW-AP-01A-2022Q3
592596002	FBLK-WAT-CCR-AP-22301
1205190598	Method Blank (MB)
1205190599	Laboratory Control Sample (LCS)
1205190600	592605003(MW-3-2022Q3) Sample Duplicate (DUP)
1205190601	592850001(NonSDG) Sample Duplicate (DUP)
1205190602	592885002(NonSDG) Sample Duplicate (DUP)

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

Data Summary:

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

Quality Control (QC) Information

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Total Dissolved Solids	1205190602 (Non SDG 592885002DUP)	5.18* (0%-5%)

Miscellaneous Information

Additional Comments

All method-driven specifications are followed for these analyses except where client-specific SOW requirements are required to be met.

Certification Statement

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

GEL LABORATORIES LLC

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Qualifier Definition Report for

DMNN001 Dominion Energy (50149867)

Client SDG: 592596 GEL Work Order: 592596

The Qualifiers in this report are defined as follows:

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

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Aubrey Kingsbury

Date: 22 SEP 2022

Title: Team Leader

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID:	MW-AP-01A-2022Q3	Project:	DMNN00101
Sample ID:	592596001	Client ID:	DMNN001
Matrix:	GW		
Collect Date:	08-SEP-22 10:30		
Receive Date:	09-SEP-22		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		5.75	0.0670	0.200	mg/L		1	JLD1	09/13/22	2217	2315794	1
Fluoride	J	0.0652	0.0330	0.100	mg/L		1					
Sulfate	J	0.307	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids	J	8.00	2.38	10.0	mg/L			CH6	09/14/22	1048	2316241	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: September 22, 2022

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Contact: Kelly Hicks
Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: FBLK-WAT-CCR-AP-22301 Project: DMNN00101
Sample ID: 592596002 Client ID: DMNN001
Matrix: GW
Collect Date: 08-SEP-22 10:45
Receive Date: 09-SEP-22
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
EPA 300.0 Anions Liquid "As Received"												
Chloride		0.453	0.0670	0.200	mg/L		1	JLD1	09/13/22	2248	2315794	1
Fluoride	J	0.0505	0.0330	0.100	mg/L		1					
Sulfate	J	0.207	0.133	0.400	mg/L		1					
Solids Analysis												
SM2540C TDS "As Received"												
Total Dissolved Solids	U	ND	2.38	10.0	mg/L			CH6	09/14/22	1048	2316241	2

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 300.0	
2	SM 2540C	

Notes:

Column headers are defined as follows:

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

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: September 22, 2022

Page 1 of 3

Dominion Energy Services, Inc.
120 Tredegar Street
Richmond, Virginia

Contact: Kelly Hicks

Workorder: 592596

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2315794										
QC1205189766	592607004	DUP									
Chloride		8.27		8.14	mg/L	1.56		(0%-20%)	JLD1	09/14/22	01:22
Fluoride	J	0.0556	J	0.0526	mg/L	5.55	^	(+/-2)			
Sulfate		3.27		3.31	mg/L	1.39		(0%-20%)			
QC1205189768	592592001	DUP									
Chloride		9.99		10.1	mg/L	0.752		(0%-20%)		09/14/22	09:36
Fluoride	J	0.0707	J	0.0660	mg/L	6.88	^	(+/-2)		09/15/22	21:30
Sulfate		1.06		1.05	mg/L	1.51	^	(+/-8)			
QC1205189765	LCS										
Chloride	5.00			4.78	mg/L			95.6 (90%-110%)		09/15/22	20:28
Fluoride	2.50			2.61	mg/L			104 (90%-110%)			
Sulfate	10.0			10.9	mg/L			109 (90%-110%)			
QC1205189764	MB										
Chloride			U	ND	mg/L					09/14/22	08:03
Fluoride			U	ND	mg/L						
Sulfate			J	0.202	mg/L						
QC1205189767	592607004	PS									
Chloride	5.00	8.27		14.0	mg/L			114* (90%-110%)		09/14/22	01:53

GEL LABORATORIES LLC

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QC Summary

Workorder: 592596

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2315794										
Fluoride	2.50	J	0.0556	2.67	mg/L		105	(90%-110%)	JLD1	09/14/22	01:53
Sulfate	10.0		3.27	13.1	mg/L		98.3	(90%-110%)			
QC1205189769	592592001 PS										
Chloride	5.00		5.00	10.5	mg/L		110	(90%-110%)		09/14/22	10:07
Fluoride	2.50	J	0.0707	2.67	mg/L		104	(90%-110%)		09/15/22	22:00
Sulfate	10.0		1.06	10.5	mg/L		94.1	(90%-110%)			
Solids Analysis											
Batch	2316241										
QC1205190600	592605003 DUP										
Total Dissolved Solids			513	516	mg/L	0.583		(0%-5%)	CH6	09/14/22	10:48
QC1205190601	592850001 DUP										
Total Dissolved Solids			367	359	mg/L	2.2		(0%-5%)		09/14/22	10:48
QC1205190602	592885002 DUP										
Total Dissolved Solids			99.0	94.0	mg/L	5.18*		(0%-5%)		09/14/22	10:48
QC1205190599	LCS										
Total Dissolved Solids	300			301	mg/L		100	(95%-105%)		09/14/22	10:48
QC1205190598	MB										
Total Dissolved Solids			U	ND	mg/L					09/14/22	10:48

Notes:

The Qualifiers in this report are defined as follows:

- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.

GEL LABORATORIES LLC

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QC Summary

Workorder: 592596

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
E											
H											
J											
J											
N/A											
N1											
ND											
NJ											
Q											
R											
R											
U											
X											
Z											
^											
d											
e											
h											

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

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

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

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

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

Radiological Analysis

Case Narrative

**Radiochemistry
Technical Case Narrative
Dominion Energy
SDG #: 592596**

Product: GFPC Ra228, Liquid
Analytical Method: EPA 904.0
Analytical Procedure: GL-RAD-A-063 REV# 5
Analytical Batch: 2314937

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
592596001	MW-AP-01A-2022Q3
592596002	FBLK-WAT-CCR-AP-22301
1205187896	Method Blank (MB)
1205187897	592596001(MW-AP-01A-2022Q3) Sample Duplicate (DUP)
1205187898	Laboratory Control Sample (LCS)

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

Data Summary:

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

Product: Lucas Cell, Ra226, Liquid
Analytical Method: EPA 903.1 Modified
Analytical Procedure: GL-RAD-A-008 REV# 15
Analytical Batch: 2314929

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
592596001	MW-AP-01A-2022Q3
592596002	FBLK-WAT-CCR-AP-22301
1205187871	Method Blank (MB)
1205187872	592596001(MW-AP-01A-2022Q3) Sample Duplicate (DUP)
1205187873	592596001(MW-AP-01A-2022Q3) Matrix Spike (MS)
1205187874	Laboratory Control Sample (LCS)

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

Data Summary:

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

Miscellaneous Information

Additional Comments

The matrix spike, 1205187873 (MW-AP-01A-2022Q3MS), aliquot was reduced to conserve sample volume.

Certification Statement

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

GEL LABORATORIES LLC

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

Qualifier Definition Report for

DMNN001 Dominion Energy (50149867)

Client SDG: 592596 GEL Work Order: 592596

The Qualifiers in this report are defined as follows:

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

Review/Validation

GEL requires all analytical data to be verified by a qualified data reviewer. In addition, all CLP-like deliverables receive a third level review of the fractional data package.

The following data validator verified the information presented in this data report:

Signature: 

Name: Kate Gellatly

Date: 22 SEP 2022

Title: Analyst I

Sample Data Summary

GEL LABORATORIES LLC

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

Certificate of Analysis

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Report Date: September 22, 2022

Contact: Kelly Hicks

Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: MW-AP-01A-2022Q3
Sample ID: 592596001
Matrix: GW
Collect Date: 08-SEP-22
Receive Date: 09-SEP-22
Collector: Client

Project: DMNN00101
Client ID: DMNN001

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	0.727	+/-1.16	2.00	+/-1.18	3.00	pCi/L			JE1	09/21/22	0845	2314937	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.50	+/-1.25		+/-1.28		pCi/L		1	NXL1	09/22/22	0835	2314936	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		0.769	+/-0.469	0.654	+/-0.498	1.00	pCi/L			LXP1	09/19/22	0937	2314929	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2314937	95.1	(30%-110%)

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

Column headers are defined as follows:

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

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Certificate of Analysis

Company : Dominion Energy Services, Inc.
Address : 120 Tredegar Street

Richmond, Virginia 23219

Report Date: September 22, 2022

Contact: Kelly Hicks

Project: CCR Groundwater Monitoring - Level 1 Package

Client Sample ID: FBLK-WAT-CCR-AP-22301

Project: DMNN00101

Sample ID: 592596002

Client ID: DMNN001

Matrix: GW

Collect Date: 08-SEP-22

Receive Date: 09-SEP-22

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	TPU	RL	Units	PF	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gas Flow Proportional Counting														
<i>GFPC Ra228, Liquid "As Received"</i>														
Radium-228	U	-0.109	+/-0.766	1.47	+/-0.766	3.00	pCi/L			JE1	09/21/22	0846	2314937	1
<i>Radium-226+Radium-228 Calculation "See Parent Products"</i>														
Radium-226+228 Sum		1.08	+/-0.908		+/-0.923		pCi/L			NXL1	09/22/22	0835	2314936	2
Rad Radium-226														
<i>Lucas Cell, Ra226, Liquid "As Received"</i>														
Radium-226		1.08	+/-0.489	0.469	+/-0.515	1.00	pCi/L			LXP1	09/19/22	0937	2314929	3

The following Analytical Methods were performed

Method	Description
1	EPA 904.0
2	Calculation
3	EPA 903.1 Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Barium-133 Tracer	GFPC Ra228, Liquid "As Received"	2314937	98	(30%-110%)

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

Column headers are defined as follows:

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

Quality Control Summary

GEL LABORATORIES LLC

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

QC Summary

Report Date: September 22, 2022
Page 1 of 2

Client : Dominion Energy Services, Inc.
120 Tredegar Street

Contact: Richmond, Virginia 23219
Kelly Hicks

Workorder: 592596

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date Time
Rad Gas Flow									
Batch	2314937								
QC1205187896	MB								
Radium-228			U	0.700	pCi/L			JE1	09/21/2208:45
				Uncert:					
				TPU:					
QC1205187897	592596001	DUP							
Radium-228		U	0.727	1.84	pCi/L				09/21/2208:45
				Uncert:		RPD: 87	(0% - 100%)		
				TPU:		RER: 1.42	(0-2)		
QC1205187898	LCS								
Radium-228		43.9		42.1	pCi/L	REC: 96	(80%-120%)		09/21/2208:45
				Uncert:					
				TPU:					
Rad Ra-226									
Batch	2314929								
QC1205187871	MB								
Radium-226			U	0.196	pCi/L			LXP1	09/19/2210:10
				Uncert:					
				TPU:					
QC1205187872	592596001	DUP							
Radium-226		0.769		0.885	pCi/L				
				Uncert:		RPD: 14	(0% - 100%)		
				TPU:		RER: 0.321	(0-2)		
QC1205187873	592596001	MS							
Radium-226		129	0.769	110	pCi/L	REC: 85	(75%-125%)		
				Uncert:					
				TPU:					
QC1205187874	LCS								
Radium-226		26.6		25.8	pCi/L	REC: 96.9	(80%-120%)		
				Uncert:					
				TPU:					

Notes:

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

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- B The target analyte was detected in the associated blank.
- BD Results are either below the MDC or tracer recovery is low
- E %difference of sample and SD is >10%. Sample concentration must meet flagging criteria
- E General Chemistry--Concentration of the target analyte exceeds the instrument calibration range
- FA Failed analysis.

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QC Summary

Workorder: 592596

Page 2 of 2

Parmname	NOM	Sample	Qual	QC	Units	QC Criteria	Range	Analyst	Date	Time
FB										
H										
J										
J										
K										
L										
M										
M										
N										
N/A										
N1										
ND										
NJ										
Q										
R										
R										
U										
UI										
UJ										
UL										
X										
Y										
Z										
^										
d										
e										
h										

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

** Indicates analyte is a surrogate compound.

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

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

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

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

**Wateree Power Station Groundwater Sampling
Samples Collected between: 9/7/2022 and 9/14/2022**

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

592607

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
MW-FGD-01-2022Q3	MW-FGD-01	N	EPA 200.8	Boron	T	9.79	J	RL	4.00	15.0		ug/L
MW-FGD-01-2022Q3	MW-FGD-01	N	EPA 300.0	Fluoride	N	0.0418	J	RL	0.0330	0.100		mg/L
MW-FGD-01-2022Q3	MW-FGD-01	N	EPA 300.0	Sulfate	N		U	BL	0.756	0.756		mg/L
MW-FGD-01-2022Q3	MW-FGD-01	N	SM 2540C	Total Dissolved Solids	N	8.00	J	RL	2.38	10.0		mg/L
MW-FGD-02-2022Q3	MW-FGD-02	N	EPA 300.0	Fluoride	N	0.0993	J	RL	0.0330	0.100		mg/L
MW-FGD-03-2022Q3	MW-FGD-03	N	EPA 200.8	Boron	T	13.0	J	RL	4.00	15.0		ug/L
MW-FGD-03-2022Q3	MW-FGD-03	N	EPA 300.0	Fluoride	N	0.0724	J	RL	0.0330	0.100		mg/L
MW-FGD-04-2022Q3	MW-FGD-04	N	EPA 200.8	Boron	T	14.3	J	RL	4.00	15.0		ug/L
MW-FGD-04-2022Q3	MW-FGD-04	N	EPA 300.0	Fluoride	N	0.0556	J	RL	0.0330	0.100		mg/L
MW-FGD-05-2022Q3	MW-FGD-05	N	EPA 300.0	Fluoride	N	0.0793	J	RL	0.0330	0.100		mg/L
DU-WAT-CCR-FGD-22301	AS-FGD-02	FD	EPA 300.0	Fluoride	N	0.0741	J	RL	0.0330	0.100		mg/L
AS-FGD-01-2022Q3	AS-FGD-01	N	EPA 200.8	Boron	T	8.52	J	RL	4.00	15.0		ug/L
AS-FGD-01-2022Q3	AS-FGD-01	N	EPA 300.0	Fluoride	N	0.0739	J	RL	0.0330	0.100		mg/L
AS-FGD-01-2022Q3	AS-FGD-01	N	EPA 300.0	Sulfate	N		U	BL	0.362	0.400		mg/L
AS-FGD-02-2022Q3	AS-FGD-02	N	EPA 300.0	Fluoride	N	0.0754	J	RL	0.0330	0.100		mg/L
AS-FGD-03-2022Q3	AS-FGD-03	N	EPA 200.8	Boron	T	13.7	J	RL	4.00	15.0		ug/L
AS-FGD-03-2022Q3	AS-FGD-03	N	EPA 300.0	Fluoride	N	0.0733	J	RL	0.0330	0.100		mg/L

Data Qualifiers

U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.

R	Unreliable positive result; analyte may or may not be present in sample.
Reason Codes and Explanations	
BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.
H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results
T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Lab Sample ID	592607001
Sys Sample Code	MW-FGD-01-2022Q3
Sample Name	MW-FGD-01-2022Q3
Sample Date	9/7/2022 2:50:00 PM
Location	WAT-MW-FGD-01 / MW-FGD-01
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	9.79	J	RL		4.00	4.00	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	904				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	6.09				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0418	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U	BL		0.756	0.756	0.756	N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	8.00	J	RL		2.38	2.38	10.0	Y	Yes	1	NA

Lab Sample ID	592607002
Sys Sample Code	MW-FGD-02-2022Q3
Sample Name	MW-FGD-02-2022Q3
Sample Date	9/7/2022 10:30:00 AM
Location	WAT-MW-FGD-02 / MW-FGD-02
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	37.1				4.00	4.00	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	2300				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	7.04				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0993	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	6.20				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	34.0				2.38	2.38	10.0	Y	Yes	1	NA

Lab Sample ID	592607003
Sys Sample Code	MW-FGD-03-2022Q3
Sample Name	MW-FGD-03-2022Q3
Sample Date	9/7/2022 11:20:00 AM
Location	WAT-MW-FGD-03 / MW-FGD-03
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	13.0	J	RL		4.00	4.00	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	5710				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	6.77				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0724	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	8.43				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	29.0				2.38	2.38	10.0	Y	Yes	1	NA

Lab Sample ID	592607004
Sys Sample Code	MW-FGD-04-2022Q3
Sample Name	MW-FGD-04-2022Q3
Sample Date	9/7/2022 12:45:00 PM
Location	WAT-MW-FGD-04 / MW-FGD-04
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	14.3	J	RL		4.00	4.00	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	2170				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	8.27				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0556	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	3.27				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	23.0				2.38	2.38	10.0	Y	Yes	1	NA

Lab Sample ID	592607005
Sys Sample Code	MW-FGD-05-2022Q3
Sample Name	MW-FGD-05-2022Q3
Sample Date	9/7/2022 3:05:00 PM
Location	WAT-MW-FGD-05 / MW-FGD-05
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	32.5				4.00	4.00	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	10600				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Fluoride	16984-48-8	N	mg/L	0.0793	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	13.4				0.335	0.335	1.00	Y	Yes	5	NA
	Sulfate	14808-79-8	N	mg/L	29.8				0.665	0.665	2.00	Y	Yes	5	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	105				2.38	2.38	10.0	Y	Yes	1	NA

Lab Sample ID	592607006
Sys Sample Code	DU-WAT-CCR-FGD-22301
Sample Name	DU-WAT-CCR-FGD-22301
Sample Date	9/7/2022 12:00:00 PM
Location	WAT-AS-FGD-02 / AS-FGD-02
Sample Type	FD
Matrix	GW
Parent Sample	AS-FGD-02-2022Q3

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	15.4				4.00	4.00	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	1770				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	8.17				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0741	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	4.41				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	26.0				2.38	2.38	10.0	Y	Yes	1	NA

Lab Sample ID	592607007
Sys Sample Code	AS-FGD-01-2022Q3
Sample Name	AS-FGD-01-2022Q3
Sample Date	9/7/2022 4:15:00 PM
Location	WAT-AS-FGD-01 / AS-FGD-01
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	8.52	J	RL		4.00	4.00	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	994				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	7.32				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0739	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U	BL		0.362	0.362	0.400	N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	28.0				2.38	2.38	10.0	Y	Yes	1	NA

Lab Sample ID	592607008
Sys Sample Code	AS-FGD-02-2022Q3
Sample Name	AS-FGD-02-2022Q3
Sample Date	9/7/2022 11:25:00 AM
Location	WAT-AS-FGD-02 / AS-FGD-02
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	15.0				4.00	4.00	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	1730				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	8.17				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0754	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	4.57				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	30.0				2.38	2.38	10.0	Y	Yes	1	NA

Lab Sample ID	592607009
Sys Sample Code	AS-FGD-03-2022Q3
Sample Name	AS-FGD-03-2022Q3
Sample Date	9/7/2022 12:30:00 PM
Location	WAT-AS-FGD-03 / AS-FGD-03
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L	13.7	J	RL		4.00	4.00	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	1570				30.0	30.0	100	Y	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	8.90				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0733	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	2.26				0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	20.0				2.38	2.38	10.0	Y	Yes	1	NA

Lab Sample ID	592607010
Sys Sample Code	FBLK-WAT-CCR-FGD-22301
Sample Name	FBLK-WAT-CCR-FGD-22301
Sample Date	9/7/2022 10:00:00 AM
Location	WAT-CCRFGD-FB / Field Blank
Sample Type	FB
Matrix	AQ
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 200.8	Boron	7440-42-8	T	ug/L		U			4.00	4.00	15.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L		U			30.0	30.0	100	N	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	0.226				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.0330	0.0330	0.100	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.133	0.133	0.400	N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L		U			2.38	2.38	10.0	N	Yes	1	NA

Lab Sample ID	593105013
Sys Sample Code	MW-BG-73-2022Q3
Sample Name	MW-BG-73-2022Q3
Sample Date	9/9/2022 11:50:00 AM
Location	WAT-MW-BG-73 / MW-BG-73
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
EPA 300.0	Chloride	16887-00-6	N	mg/L	2.52				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.0330	0.0330	0.100	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	0.398	J	RL		0.133	0.133	0.400	Y	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L		U			2.38	2.38	10.0	N	Yes	1	NA
SW-846 6020B	Boron	7440-42-8	T	ug/L	10.9	J	RL		5.20	5.20	15.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	280				80.0	80.0	200	Y	Yes	1	NA

This quality assurance (QA) review is based upon an examination of the data generated from the analyses of the samples collected as part of:

**Wateree Power Station Groundwater Sampling
Samples Collected between: 9/7/2022 and 9/14/2022**

This review was performed with guidance from the associated US EPA data validation guidelines and in accordance with the Quality Assurance Program Plan. These validation guidance documents specifically address analyses performed in accordance with the Contract Laboratory Program (CLP) analytical methods and are not completely applicable to the type of analyses and analytical protocols performed for the US EPA, SW-846, and Standard Methods utilized by the laboratory for these samples. Environmental Standards, Inc. (Environmental Standards) used professional judgment to determine the usability of the analytical results and compliance relative to the US EPA, SW-846, and Standard Methods utilized by the laboratory. This QA review was performed on the data associated with Job Number:

592596

The findings offered in this report are based on a review of holding times and preservation, method blank results, field blank results, filter blank results, equipment blank results, tubing blank results, matrix spike/matrix spike duplicate recoveries and precision, laboratory control sample/laboratory control sample duplicate recoveries and precision, laboratory and field duplicate precision, total and dissolved results comparisons, and/or positive results between the method detection limit and quantitation limit.

The following results were qualified based on the data verification effort:

Sample	Location	Sample Type	Method	Analyte	T/D	Result	Qual	Reason Code(s)	MDL	QL	Uncertainty	Unit
MW-AP-01A-2022Q3	MW-01A	N	CALC	Radium-226+228 Sum	N	1.50	U	BF,S			1.28	pCi/L
MW-AP-01A-2022Q3	MW-01A	N	EPA 200.8	Beryllium	T	0.233	J	RL	0.200	0.500		ug/L
MW-AP-01A-2022Q3	MW-01A	N	EPA 200.8	Cobalt	T	0.506	J	RL	0.100	1.00		ug/L
MW-AP-01A-2022Q3	MW-01A	N	EPA 200.8	Lead	T	1.20	J	RL	0.500	2.00		ug/L
MW-AP-01A-2022Q3	MW-01A	N	EPA 300.0	Fluoride	N		U	BF	0.0652	0.100		mg/L
MW-AP-01A-2022Q3	MW-01A	N	EPA 300.0	Sulfate	N		U	BL,BF	0.307	0.400		mg/L
MW-AP-01A-2022Q3	MW-01A	N	EPA 903.1	Radium-226	N	0.769	U	BF	0.769	1.00	0.498	pCi/L
MW-AP-01A-2022Q3	MW-01A	N	SM 2540C	Total Dissolved Solids	N	8.00	J	RL	2.38	10.0		mg/L
FBLK-WAT-CCR-AP-22301	Field Blank	FB	CALC	Radium-226+228 Sum	N	1.08	J	S			0.923	pCi/L
FBLK-WAT-CCR-AP-22301	Field Blank	FB	EPA 300.0	Fluoride	N	0.0505	J	RL	0.0330	0.100		mg/L
FBLK-WAT-CCR-AP-22301	Field Blank	FB	EPA 300.0	Sulfate	N	0.207	J	RL	0.133	0.400		mg/L

Data Qualifiers

U	The analyte was not detected above the level of the sample reporting limit.
J	Quantitation is approximate due to limitations identified during data validation.
J+	The result is an estimated quantity; the result may be biased high.
J-	The result is an estimated quantity; the result may be biased low.
UJ	The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise.
R	Unreliable positive result; analyte may or may not be present in sample.

Reason Codes and Explanations

BE	Equipment blank contamination.
BF	Field blank contamination.
BL	Laboratory blank contamination.
BN	Negative laboratory blank contamination.
FD	Field duplicate imprecision.
FG	Total versus Dissolved Imprecision.

H	Holding time exceeded.
L	LCS and LCSD recoveries outside of acceptance limits
LD	Laboratory duplicate imprecision.
LP	LCS/LCSD imprecision.
M	MS and MSD recoveries outside of acceptance limits
MP	MS/MSD imprecision.
Q	Chemical Preservation issue.
RL	Reported Results between the MDL and QL.
S	Radium-226+228 flagged due to reporting protocol for combined results
T	Temperature preservation issue.
X	Percent solids < 50%.
Y	Chemical yield outside of acceptance limits
ZZ	Other

Lab Sample ID	592596001
Sys Sample Code	MW-AP-01A-2022Q3
Sample Name	MW-AP-01A-2022Q3
Sample Date	9/8/2022 10:30:00 AM
Location	WAT-MW-01A / MW-01A
Sample Type	N
Matrix	GW
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Radium-226+228 Sum	RA226/228	N	pCi/L	1.50	U	BF,S	1.28				N	Yes	1	NA
EPA 200.8	Antimony	7440-36-0	T	ug/L		U			0.600	0.600	2.00	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			1.66	1.66	5.00	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	53.7				0.500	0.500	2.00	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.233	J	RL		0.200	0.200	0.500	Y	Yes	1	NA
	Boron	7440-42-8	T	ug/L	16.5				4.00	4.00	15.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.0300	0.0300	0.100	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	489				30.0	30.0	100	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.00	1.00	3.00	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.506	J	RL		0.100	0.100	1.00	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L	1.20	J	RL		0.500	0.500	2.00	Y	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			2.00	2.00	10.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.167	0.167	1.00	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			1.50	1.50	5.00	N	Yes	1	NA
Thallium	7440-28-0	T	ug/L		U			0.125	0.125	0.500	N	Yes	1	NA	
EPA 245.1	Mercury	7439-97-6	T	ug/L		U			0.0670	0.0670	0.200	N	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	5.75				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U	BF		0.0652	0.0652	0.100	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U	BL,BF		0.307	0.307	0.400	N	Yes	1	NA
EPA 903.1	Radium-226	13982-63-3	N	pCi/L	0.769	U	BF	0.498	0.769	0.769	1.00	N	Yes	1	NA
EPA 904.0	Radium-228	15262-20-1	N	pCi/L	0.727	U		1.18	2.00	2.00	3.00	N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	8.00	J	RL		2.38	2.38	10.0	Y	Yes	1	NA

Lab Sample ID	592596002
Sys Sample Code	FBLK-WAT-CCR-AP-22301
Sample Name	FBLK-WAT-CCR-AP-22301
Sample Date	9/8/2022 10:45:00 AM
Location	WAT-CCRLF-FB / Field Blank
Sample Type	FB
Matrix	AQ
Parent Sample	

Analytic Method	Chemical Name	CAS Rn	Fraction	Result Unit	Final Result	Final Qual	Reason code	Uncertainty	Final MDL	Final RL	Final QL	Final Detect	Final Report	DF	Basis
CALC	Radium-226+228 Sum	RA226/228	N	pCi/L	1.08	J	S	0.923				Y	Yes	1	NA
EPA 200.8	Antimony	7440-36-0	T	ug/L		U			0.600	0.600	2.00	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			1.66	1.66	5.00	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L		U			0.500	0.500	2.00	N	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.200	0.200	0.500	N	Yes	1	NA
	Boron	7440-42-8	T	ug/L		U			4.00	4.00	15.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.0300	0.0300	0.100	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L		U			30.0	30.0	100	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.00	1.00	3.00	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.100	0.100	1.00	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.500	0.500	2.00	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			2.00	2.00	10.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			0.167	0.167	1.00	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			1.50	1.50	5.00	N	Yes	1	NA
Thallium	7440-28-0	T	ug/L		U			0.125	0.125	0.500	N	Yes	1	NA	
EPA 245.1	Mercury	7439-97-6	T	ug/L		U			0.0670	0.0670	0.200	N	Yes	1	NA
EPA 300.0	Chloride	16887-00-6	N	mg/L	0.453				0.0670	0.0670	0.200	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.0505	J	RL		0.0330	0.0330	0.100	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	0.207	J	RL		0.133	0.133	0.400	Y	Yes	1	NA
EPA 903.1	Radium-226	13982-63-3	N	pCi/L	1.08			0.515	0.469	0.469	1.00	Y	Yes	1	NA
EPA 904.0	Radium-228	15262-20-1	N	pCi/L	-0.109	U		0.766	1.47	1.47	3.00	N	Yes	1	NA
SM 2540C	Total Dissolved Solids	TDS	N	mg/L		U			2.38	2.38	10.0	N	Yes	1	NA

Appendix E

First Semiannual Detection Monitoring Program Statistical Evaluation



DOMINION ENERGY SOUTH CAROLINA

WATEREE STATION FGD POND

SEMIANNUAL DETECTION MONITORING

RICHLAND COUNTY, SOUTH CAROLINA

CCR GROUNDWATER DETECTION MONITORING STATISTICAL ANALYSIS REPORT

For the

March 2022 Sampling Event

July 2022



A handwritten signature in blue ink, appearing to read "Joyce E. Peterson".

Joyce Peterson, P.E.
Senior Environmental Engineer

A handwritten signature in blue ink, appearing to read "Richard A. Mayer Jr.".

Richard A. Mayer Jr., P.G.
Project Manager

*TRC Environmental Corporation | Dominion Energy South Carolina
Waterree Station FGD Pond – Detection Monitoring*

\\GREENVILLE-FP1\WPGVL\PTJ2\416559\0005 WATEREE\R4165590005-015 WATEREE FGD POND CCR ASSESSMENT.DOCX

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Statistical Analysis Report

Groundwater Sampling

TRC Environmental Corporation (TRC) is providing this Statistically Significant Increases (SSI) notification for the Wateree Station FGD Pond for the tenth semiannual detection monitoring event. Samples were collected on March 15th, 2022. The final laboratory analytical data packages for the event were received on March 31st, 2022, and the data validation report was received on April 7th, 2022. Due to matrix interference identified during data validation, a verification sampling event for total boron was conducted on June 1st, 2022. The final laboratory analytical package for the verification sampling event was received on June 15th, 2022, and the data validation report was received on June 22nd, 2022. This report addresses results from Detection Monitoring wells MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05. Background wells for the FGD Pond include MW-BG-73, MW-AP-01A, MW-FGD-01, and AS-FGD-01.

Statistical Analysis

Statistically Significant Level (SSL) exceedances above background concentrations include the following:

- MW-FGD-02: calcium and sulfate
- MW-FGD-03: calcium and sulfate
- MW-FGD-04: calcium, chloride, and sulfate
- MW-FGD-05: calcium, chloride, sulfate, and total dissolved solids (TDS)

As has been done since the initiation of detection monitoring at the Wateree Station, the evaluation of potential SSIs was conducted using prediction limits to compare data from the background set of monitoring wells to the most recent results from the downgradient monitoring wells. The statistical calculations have been conducted using United States Environmental Protection Agency's (USEPA's) ProUCL (v.5.1) software. TRC is currently evaluating the existing monitoring well network and updates to the Site's Statistical Analysis Plan (StAP) will be forthcoming which will formally establish and describe the statistical methods being employed. The prediction limits used for the first monitoring event in 2021 were calculated to be used for four semiannual sampling events, of which this is the third.

Appendix A presents the background data used for the prediction limit calculations. **Table 1** presents the BTVs calculated based on the background data. **Table 2** presents the data set for the tenth detection monitoring event and highlights results that are potential SSIs. An Alternative Source Demonstration (ASD) should be prepared for these potential SSIs.

Table 1
Background Threshold Values
for 2021 and 2022

Table 1
Background Threshold Values for 2021 and 2022
Dominion Energy South Carolina
Wateree Station FGD Pond

CONSTITUENT	NUMBER of RESULTS	PERCENT DETECTED	DISTRIBUTION	TREND	BACKGROUND THRESHOLD VALUE	BASIS
Boron (µg/L)	43 ^[1]	9	Nonparametric	N/A	58.5	95% USL
Calcium (µg/L)	43 ^[1]	100	Nonparametric	No	1910	95% USL
Chloride (mg/L)	44	100	Normal	No	10.8	95% UPL (16)
Fluoride(mg/L)	44	14	Nonparametric	N/A	DQR [0.1]	PQL
pH (s.u.)	44	100	Nonparametric	No	3.44 - 5.43	95% USL/LSL
Sulfate (mg/L)	43 ^[1]	2	Nonparametric	N/A	0.83	Max Detected
TDS (mg/L)	44	100	Normal	No	72.2	95% UPL (16)

[1] Outlier excluded from data set

N/A Not Applicable – trend test not conducted for data sets with few detections

Table 2
March 2022 Downgradient Results
and Potential SSIs

Table 2
 March 2022 Downgradient Results and Potential SSIs
 Dominion Energy South Carolina
 Wateree Station FGD Pond

WELL	CONSTITUENT / BTV / RESULT (mg/L except as noted) ^[1]						
	BORON	CALCIUM	CHLORIDE	FLUORIDE	pH	SULFATE	TDS
	58.5	1,910	10.8	DQR [0.1]	3.44 - 5.43	0.83	72.2
BACKGROUND WELLS							
AS-FGD-01	7.08 J ^[3]	1,350	8.47	0.0330 U	4.57	0.305 J	45.7 J
MW-AP-01A	10.9 J	593	5.91	0.0330 U	4.56	0.205 J	27.1
MW-BG-73	9.18 J	304	2.27	0.0330 U	4.56	0.377 J	4.29 J
MW-FGD-01	7.96 J ^[3]	1,490	8.55	0.0330 U	4.46	0.608	60.0 J
DOWNGRADIANT WELLS							
MW-FGD-02	40.4 ^[3]	5,900	7.14	0.0644 J	4.93	8.87	60.0 J
MW-FGD-03	14.6 J ^[3]	7,790	7.33	0.0628 J	5.25	12.1	61.4
MW-FGD-04	13.6 J ^[3]	5,890	14.3	0.0752 J	4.46	4.14	51.4 J
MW-FGD-05	26.0 ^[3]	19,200	14.2	0.0731 J	5.35	21.7	126

[1] Boron and calcium concentration expressed in µg/L; pH expressed in standard units (s.u.).

[2] DQR requires the parameter to be detected twice consecutively above the reporting limit to be an SSI.

[3] Verification resample conducted on 6/1/2022; result of verification resample data used.

U The analyte was not detected above the level of the sample reporting limit.

J Estimated concentration.

Appendix A

Background Data Set for 2021 and 2022 Semiannual Detection Monitoring Event

Appendix A
Background Data Set for 2021 and 2022 Semiannual Detection Monitoring Events
Dominion Energy South Carolina
Wateree Station FGD Pond

EVENT	WELL	CONSTITUENT/RESULT (mg/L except as noted) ^[1]						
		BORON	CALCIUM	CHLORIDE	FLUORIDE	pH	SULFATE	TDS
BL 8	AS-FGD-01	44.2 U	1070	6.33	0.049	4.65	0.129 U	42
DM 1	AS-FGD-01	44.2 U	705	6.54	0.1 U	4.34	0.129 U	28
DM 2	AS-FGD-01	44.2 U	732	6.62	0.025 U	4.69	0.129 U	49
DM 3	AS-FGD-01	50 U	5000 U ^[2]	7.5	0.1 U	5.43	11 ^[2]	31
DM 4	AS-FGD-01	38.458 U	844	6.96	0.008 U	4.4	0.129 U	20
DM 5	AS-FGD-01	38.458 U	778	7.19	0.008 U	3.84	0.063 U	38 ^[3]
DM 6	AS-FGD-01	38.458 U	865	7.3	0.008 U	4.49	0.063 U	48
DM 7	AS-FGD-01	38.458 U	674	7.49	0.008 U	4.28	0.063 U	72
BL 1	MW-AP-01A	55.7 U	781	5.64	0.033 U	4.74	0.129 U	32
BL 2	MW-AP-01A	55.7 U	781	5.4	0.033 U	4.63	0.129 U	27
BL 3	MW-AP-01A	55.7 U	721	5.35	0.06	4.45	0.129 U	37
BL 4	MW-AP-01A	55.7 U	732	5.41	0.04	4.81	0.129 U	36
BL 5	MW-AP-01A	44.2 U	657	4.93	0.049	4.63	0.83	36
BL 6	MW-AP-01A	44.2 U	1510	4.77	0.033 U	4.45	0.129 U	26
BL 7	MW-AP-01A	44.2 U	677	4.6	0.033 U	4.98	0.129 U	32
BL 8	MW-AP-01A	44.2 U	700	5.37	0.04	4.32	0.129 U	33
DM 1	MW-AP-01A	44.2 U	511	4.97	0.033 U	4.55	0.129 U	27
DM 2	MW-AP-01A	44.2 U	557	5.02	0.025 U	4.44	0.129 U	32
DM 3	MW-AP-01A	21.9 U	514	5.36	0.025 U	4.57	0.129 U	31
DM 4	MW-AP-01A	39.1	648	5.49	0.008 U	4.38	0.129 U	37
DM 5	MW-AP-01A	58.5	529	5.25	0.008 U	3.89	0.063 U	43
DM 6	MW-AP-01A	138 ^[2]	730	5.53	0.008 U	4.67	0.063 U	60
DM 7	MW-AP-01A	39.1	582	5.96	0.008 U	4.62 ^[3]	0.063 U	50

[1] Boron and calcium concentrations expressed in µg/L; pH expressed in standard units (s.u.).

[2] Outlier with no verification resample – removed from data set.

[3] Outlier replaced by verification resample result (value shown on table).

U The analyte was not detected above the level of the sample reporting limit.

Appendix A (Continued)
Background Data Set for 2021 and 2022 Semiannual Detection Monitoring Events
Dominion Energy South Carolina
Wateree Station FGD Pond

EVENT	WELL	CONSTITUENT/RESULT (mg/L except as noted) ^[1]						
		BORON	CALCIUM	CHLORIDE	FLUORIDE	pH	SULFATE	TDS
DM 2	MW-BG-73	44.2 U	266	2.14	0.025 U	4.82	0.129 U	25
DM 3	MW-BG-73	21.9 U	161	2.16	0.025 U	4.84	0.129 U	22
DM 4	MW-BG-73	21.9 U	338	2.54	0.008 U	4.41	0.129 U	20
DM 5	MW-BG-73	38.458 U	343	2.62	0.008 U	3.69	0.063 U	18
DM 6	MW-BG-73	38.458 U	335	2.39	0.008 U	4.51	0.063 U	10
DM 7	MW-BG-73	38.458 U	245	2.25	0.008 U	4.98	0.063 U	51
BL 1	MW-FGD-01	55.7 U	359	3.54	0.033 U	3.44	0.129 U	32
BL 2	MW-FGD-01	55.7 U	753	6	0.033 U	4.69	0.129 U	27
BL 3	MW-FGD-01	55.7 U	803	7	0.033 U	3.9	0.129 U	33
BL 4	MW-FGD-01	55.7 U	821	7.21	0.033 U	4.57	0.129 U	49
BL 5	MW-FGD-01	44.2 U	936	7.76	0.033 U	4.68	0.129 U	29
BL 6	MW-FGD-01	44.2 U	832	5.83	0.033 U	4.35	0.129 U	31
BL 7	MW-FGD-01	44.2 U	669	4.77	0.033 U	4.33	0.129 U	35
BL 8	MW-FGD-01	44.2 U	1910	5.84	0.036	4.47	0.129 U	22
DM 1	MW-FGD-01	44.2 U	638	5.88	<0.033	4.51	0.129 U	29
DM 2	MW-FGD-01	44.2 U	820	7.12	0.025 U	4.33	0.129 U	47
DM 3	MW-FGD-01	23.5	982	7.55	0.025 U	4.62	0.129 U	36
DM 4	MW-FGD-01	38.458 U	1070	6.79	0.008 U	4.8	0.129 U	41
DM 5	MW-FGD-01	38.458 U	855	6.71	0.008 U	3.81	0.063 U	31
DM 6	MW-FGD-01	38.458 U	962 ^[3]	10.8	0.008 U	4.64	0.063 U	52
DM 7	MW-FGD-01	38.458 U	815	6.13	0.008 U	3.72	0.063 U	64

[1] Boron and calcium concentrations expressed in µg/L; pH expressed in standard units (s.u.)

[2] Outlier with no verification resample – removed from data set

[3] Outlier replaced by verification resample result (value shown on table)

U The analyte was not detected above the level of the sample reporting limit.

Appendix F

Second Semiannual Detection Monitoring Statistical Evaluation



DOMINION ENERGY SOUTH CAROLINA

WATEREE STATION FGD POND

SEMIANNUAL DETECTION MONITORING

RICHLAND COUNTY, SOUTH CAROLINA

CCR GROUNDWATER DETECTION MONITORING STATISTICAL ANALYSIS REPORT

For the

September 2022 Sampling Event

November 2022



A handwritten signature in blue ink, appearing to read "Joyce E. Peterson".

Joyce Peterson, P.E.
Senior Environmental Engineer

A handwritten signature in blue ink, appearing to read "Richard A. Mayer Jr.".

Richard A. Mayer Jr., P.G.
Project Manager

*TRC Environmental Corporation | Dominion Energy South Carolina
Waterree Station FGD Pond – Detection Monitoring*

\\GREENVILLE-FP1\WPGVL\PIJT2\416559\0005 WATEREE\R4165590005-020 WATEREE FGD POND CCR ASSESSMENT.DOCX

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Statistical Analysis Report

Groundwater Sampling

TRC Environmental Corporation (TRC) is providing this Statistically Significant Increases (SSI) notification for the Wateree Station FGD Pond for the eleventh semiannual detection monitoring event. Samples were collected on September 7th, 2022. The final laboratory analytical data packages for the event were received on September 28th, 2022, and the data validation report was received on September 28th, 2022. The final laboratory analytical package for the detection monitoring sampling event was received on September 28th, 2022, and the data validation report was received on September 28th, 2022. This report addresses results from Detection Monitoring wells MW-FGD-02, MW-FGD-03, MW-FGD-04, and MW-FGD-05. Background wells for the FDG Pond include MW-BG-73, MW-AP-01A, MW-FGD-01, and AS-FGD-01.

Statistical Analysis

Statistically Significant Level (SSL) exceedances above background concentrations include the following:

- MW-FGD-02: calcium and sulfate
- MW-FGD-03: calcium and sulfate
- MW-FGD-04: calcium and sulfate
- MW-FGD-05: calcium, chloride, sulfate, and total dissolved solids (TDS)

As has been done since the initiation of detection monitoring at the Wateree Station, the evaluation of potential SSIs was conducted using prediction limits to compare data from the background set of monitoring wells to the most recent results from the downgradient monitoring wells. The statistical calculations have been conducted using United States Environmental Protection Agency's (USEPA's) ProUCL (v.5.1) software. TRC is currently evaluating the existing monitoring well network and updates to the Site's Statistical Analysis Plan (StAP) will be forthcoming which will formally establish and describe the statistical methods being employed. The prediction limits used for the first monitoring event in 2021 were calculated to be used for four semiannual sampling events, of which this is the fourth. The prediction limits will be updated prior to the first semiannual event in 2023.

Appendix A presents the background data used for the prediction limit calculations. **Table 1** presents the BTVs calculated based on the background data. **Table 2** presents the data set for the eleventh detection monitoring event and highlights results that are potential SSIs.

DESC conducted a Well Network Evaluation in July 2022 to reevaluate the monitoring system for this CCR unit. The recommendations were presented based on the Evaluation:

- Replace two of the current background monitoring wells (MW-BG-73 and MW-AP-01A) with a new monitoring well (MW-FGD-06) placed directly upgradient of the FGD pond.
- The new well will be installed during December 2022. Meanwhile, an Alternative Source Demonstration (ASD) should be prepared for these potential SSIs.

Table 1

Background Threshold Values for 2021 and 2022

Table 1
Background Threshold Values for 2021 and 2022
Dominion Energy South Carolina
Wateree Station FGD Pond

CONSTITUENT	NUMBER of RESULTS	PERCENT DETECTED	DISTRIBUTION	TREND	BACKGROUND THRESHOLD VALUE	BASIS
Boron (µg/L)	43 ^[1]	9	Nonparametric	N/A	58.5	95% USL
Calcium (µg/L)	43 ^[1]	100	Nonparametric	No	1910	95% USL
Chloride (mg/L)	44	100	Normal	No	10.8	95% UPL (16)
Fluoride(mg/L)	44	14	Nonparametric	N/A	DQR [0.1]	PQL
pH (s.u.)	44	100	Nonparametric	No	3.44 - 5.43	95% USL/LSL
Sulfate (mg/L)	43 ^[1]	2	Nonparametric	N/A	0.83	Max Detected
TDS (mg/L)	44	100	Normal	No	72.2	95% UPL (16)

[1] Outlier excluded from data set

N/A Not Applicable – trend test not conducted for data sets with few detections

Table 2

September 2022 Downgradient Results and Potential SSIs

Table 2
September 2022 Downgradient Results and Potential SSIs
Dominion Energy South Carolina
Wateree Station FGD Pond

WELL	CONSTITUENT / BTV / RESULT (mg/L except as noted) ^[1]						
	BORON	CALCIUM	CHLORIDE	FLUORIDE	pH	SULFATE	TDS
	58.5	1,910	10.8	DQR [0.1]	3.44 - 5.43	0.83	72.2
BACKGROUND WELLS							
AS-FGD-01	8.52 J	994	7.32	0.0739 J	4.44	0.362 U	28.0
MW-AP-01A	16.5	489	5.75	0.0652 U	4.19	0.307 U	8.00 J
MW-BG-73	10.9 J	280	2.52	0.0330 U	4.54	0.398 J	2.38 U
MW-FGD-01	9.79 J	904	6.09	0.0418 J	4.30	0.756 U	8.00 J
DOWNGRADIANT WELLS							
MW-FGD-02	37.1	2,300	7.04	0.0993 J	4.51	6.20	34.0
MW-FGD-03	13.0 J	5,710	6.77	0.0724 J	4.81	8.43	29.0
MW-FGD-04	14.3 J	2,170	8.27	0.0556 J	4.04	3.27	23.0
MW-FGD-05	32.5	10,600	13.4	0.0793 J	4.93	29.8	105

[1] Boron and calcium concentration expressed in µg/L; pH expressed in standard units (s.u.).

[2] DQR requires the parameter to be detected twice consecutively above the reporting limit to be an SSI.

U The analyte was not detected above the level of the sample reporting limit.

J Estimated concentration.

Appendix A

Background Data Set for 2021 and 2022 Semiannual Detection Monitoring Event

Appendix A
Background Data Set for 2021 and 2022 Semiannual Detection Monitoring Events
Dominion Energy South Carolina
Wateree Station FGD Pond

EVENT	WELL	CONSTITUENT/RESULT (mg/L except as noted) ^[1]						
		BORON	CALCIUM	CHLORIDE	FLUORIDE	pH	SULFATE	TDS
BL 8	AS-FGD-01	44.2 U	1070	6.33	0.049	4.65	0.129 U	42
DM 1	AS-FGD-01	44.2 U	705	6.54	0.1 U	4.34	0.129 U	28
DM 2	AS-FGD-01	44.2 U	732	6.62	0.025 U	4.69	0.129 U	49
DM 3	AS-FGD-01	50 U	5000 U ^[2]	7.5	0.1 U	5.43	11 ^[2]	31
DM 4	AS-FGD-01	38.458 U	844	6.96	0.008 U	4.4	0.129 U	20
DM 5	AS-FGD-01	38.458 U	778	7.19	0.008 U	3.84	0.063 U	38 ^[3]
DM 6	AS-FGD-01	38.458 U	865	7.3	0.008 U	4.49	0.063 U	48
DM 7	AS-FGD-01	38.458 U	674	7.49	0.008 U	4.28	0.063 U	72
BL 1	MW-AP-01A	55.7 U	781	5.64	0.033 U	4.74	0.129 U	32
BL 2	MW-AP-01A	55.7 U	781	5.4	0.033 U	4.63	0.129 U	27
BL 3	MW-AP-01A	55.7 U	721	5.35	0.06	4.45	0.129 U	37
BL 4	MW-AP-01A	55.7 U	732	5.41	0.04	4.81	0.129 U	36
BL 5	MW-AP-01A	44.2 U	657	4.93	0.049	4.63	0.83	36
BL 6	MW-AP-01A	44.2 U	1510	4.77	0.033 U	4.45	0.129 U	26
BL 7	MW-AP-01A	44.2 U	677	4.6	0.033 U	4.98	0.129 U	32
BL 8	MW-AP-01A	44.2 U	700	5.37	0.04	4.32	0.129 U	33
DM 1	MW-AP-01A	44.2 U	511	4.97	0.033 U	4.55	0.129 U	27
DM 2	MW-AP-01A	44.2 U	557	5.02	0.025 U	4.44	0.129 U	32
DM 3	MW-AP-01A	21.9 U	514	5.36	0.025 U	4.57	0.129 U	31
DM 4	MW-AP-01A	39.1	648	5.49	0.008 U	4.38	0.129 U	37
DM 5	MW-AP-01A	58.5	529	5.25	0.008 U	3.89	0.063 U	43
DM 6	MW-AP-01A	138 ^[2]	730	5.53	0.008 U	4.67	0.063 U	60
DM 7	MW-AP-01A	39.1	582	5.96	0.008 U	4.62 ^[3]	0.063 U	50

[1] Boron and calcium concentrations expressed in µg/L; pH expressed in standard units (s.u.).

[2] Outlier with no verification resample – removed from data set.

[3] Outlier replaced by verification resample result (value shown on table).

U The analyte was not detected above the level of the sample reporting limit.

Appendix A (Continued)
Background Data Set for 2021 and 2022 Semiannual Detection Monitoring Events
Dominion Energy South Carolina
Wateree Station FGD Pond

EVENT	WELL	CONSTITUENT/RESULT (mg/L except as noted) ^[1]						
		BORON	CALCIUM	CHLORIDE	FLUORIDE	pH	SULFATE	TDS
DM 2	MW-BG-73	44.2 U	266	2.14	0.025 U	4.82	0.129 U	25
DM 3	MW-BG-73	21.9 U	161	2.16	0.025 U	4.84	0.129 U	22
DM 4	MW-BG-73	21.9 U	338	2.54	0.008 U	4.41	0.129 U	20
DM 5	MW-BG-73	38.458 U	343	2.62	0.008 U	3.69	0.063 U	18
DM 6	MW-BG-73	38.458 U	335	2.39	0.008 U	4.51	0.063 U	10
DM 7	MW-BG-73	38.458 U	245	2.25	0.008 U	4.98	0.063 U	51
BL 1	MW-FGD-01	55.7 U	359	3.54	0.033 U	3.44	0.129 U	32
BL 2	MW-FGD-01	55.7 U	753	6	0.033 U	4.69	0.129 U	27
BL 3	MW-FGD-01	55.7 U	803	7	0.033 U	3.9	0.129 U	33
BL 4	MW-FGD-01	55.7 U	821	7.21	0.033 U	4.57	0.129 U	49
BL 5	MW-FGD-01	44.2 U	936	7.76	0.033 U	4.68	0.129 U	29
BL 6	MW-FGD-01	44.2 U	832	5.83	0.033 U	4.35	0.129 U	31
BL 7	MW-FGD-01	44.2 U	669	4.77	0.033 U	4.33	0.129 U	35
BL 8	MW-FGD-01	44.2 U	1910	5.84	0.036	4.47	0.129 U	22
DM 1	MW-FGD-01	44.2 U	638	5.88	<0.033	4.51	0.129 U	29
DM 2	MW-FGD-01	44.2 U	820	7.12	0.025 U	4.33	0.129 U	47
DM 3	MW-FGD-01	23.5	982	7.55	0.025 U	4.62	0.129 U	36
DM 4	MW-FGD-01	38.458 U	1070	6.79	0.008 U	4.8	0.129 U	41
DM 5	MW-FGD-01	38.458 U	855	6.71	0.008 U	3.81	0.063 U	31
DM 6	MW-FGD-01	38.458 U	962 ^[3]	10.8	0.008 U	4.64	0.063 U	52
DM 7	MW-FGD-01	38.458 U	815	6.13	0.008 U	3.72	0.063 U	64

[1] Boron and calcium concentrations expressed in µg/L; pH expressed in standard units (s.u.)

[2] Outlier with no verification resample – removed from data set

[3] Outlier replaced by verification resample result (value shown on table)

U The analyte was not detected above the level of the sample reporting limit.