



2023 CCR Annual Groundwater Monitoring and Corrective Action Report

*Mount Storm Power Station
Phase A Landfill*

Prepared for:



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(d/b/a Dominion Energy Virginia)

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Table of Contents

EXECUTIVE SUMMARY	ES-1
1.0 INTRODUCTION	1
1.1 Site Location	1
1.2 Site History	1
1.3 Key Actions	1
1.4 Monitoring Program Concerns	2
2.0 SITE INFORMATION	3
2.1 Monitoring Well Network	3
2.1.1 Monitoring Well Installation and Decommissioning Activities.....	3
2.2 Geology and Hydrogeology.....	3
2.2.1 Geology	3
2.2.2 Hydrogeology	4
2.2.3 Potentiometric Surface Evaluation	4
3.0 FIELD ACTIVITIES	7
4.0 LABORATORY ANALYTICAL RESULTS	8
4.1 2 nd Semi-Annual 2022 Assessment Monitoring Program Event	8
4.2 1 st Semi-Annual 2023 Assessment Monitoring Program Event.....	8
4.3 2 nd Semi-Annual 2023 Assessment Monitoring Program Event	8
5.0 DATA QUALITY VALIDATION	9
5.1 1 st Semi-Annual 2023 Compliance Event Findings.....	9
5.2 2 nd Semi-Annual 2023 Compliance Event Findings	9
6.0 STATISTICAL EVALUATION OF GROUNDWATER DATA	10
6.1 2 nd Semi-Annual 2022 Assessment Monitoring Data Evaluations	10
6.2 1 st Semi-Annual 2023 Assessment Monitoring Data Evaluations.....	10
6.3 2 nd Semi-Annual 2023 Assessment Monitoring Data Evaluations.....	10
7.0 CONCLUSIONS	11
7.1 Findings.....	11
7.2 Planned Activities.....	11

Table of Contents

8.0 REFERENCES 12
9.0 SIGNATURE SECTION 13

List of Tables

Table 1 Summary of Historical CCR Static Water Level Data
Table 2 Summary of 2nd Semi-Annual 2022 Assessment Monitoring Program Event Data
(November 2022)
Table 3 Summary of 1st Semi-Annual 2023 Assessment Monitoring Program Event Data (April 2023)
Table 4 Summary of 2nd Semi-Annual 2023 Assessment Monitoring Program Event Data
(October 2023)

List of Drawings

Drawing 1 Site Location Map
Drawing 2 Potentiometric Surface Map – April 17, 2023
Drawing 3 Potentiometric Surface Map – October 23, 2023

List of Appendices

Appendix A First Semi-Annual 2023 Assessment Monitoring Program Event Field Data Sheets, Laboratory
Certificates of Analysis, Chain-of-Custody Forms, and Data Validation Forms
Appendix B Second Semi-Annual 2023 Assessment Monitoring Program Event Field Data Sheets, Laboratory
Certificates of Analysis, Chain-of-Custody Forms, and Data Validation Forms

EXECUTIVE SUMMARY

This *2023 CCR Annual Groundwater Monitoring and Corrective Action Report* (Report) was prepared on behalf of Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion Energy) for the Mt. Storm Power Station (Station) Phase A Landfill (Unit) located in Mt. Storm, West Virginia. The Unit is an active industrial landfill that accepts CCR and is therefore considered an existing unit under Title 40 Code of Federal Regulations (CFR) Part 257.50 *et seq.* [*Disposal of Coal Combustion Residuals (CCR) from Electric Utilities* (Final Rule; Federal Register Vol. 80, No. 74, 21302-21501 on April 17, 2015, as amended, also known as the CCR Rule)], as well as Title 33 Subsection 33-1B-1 *et seq.* of the West Virginia Legislative Rule Department of Waste Management (WV CCR Rule; effective date of March 1, 2022). Pursuant to the CCR Rule, Dominion Energy is required to complete an *Annual Groundwater Monitoring and Corrective Action Report* (Report) by January 31 annually.

The 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 projected key activities for calendar year 2023. More specifically, this Report describes the results of the CCR Rule/WV CCR Rule Assessment Monitoring Program (AMP) activities performed in 2023 to comply with CCR Rule requirements, and the progression of future sampling activities pursuant to the CCR Rule/WV CCR Rule and the Unit's *Groundwater Monitoring Plan* (GMP).

In accordance with 40 CFR §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, 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 2023, the Unit was operating under the assessment monitoring program in §257.95.
- ii. *At the end of the current annual reporting period, 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 2023, the Unit was operating under the assessment monitoring program in §257.95.
- 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 2023, there were statistically significant increases identified over background for the following appendix III constituents at the following wells during the second semi-annual 2022 event and the first semi-annual 2023 event:
 - Chloride – wells MW-8, MWFGDW6
 - pH – wells MW-8, MW-10, MWFGDW6
 - (B) *Provide the date when the assessment program was initiated for the CCR unit.*

- The Unit initiated the assessment monitoring program on April 20, 2018.
- 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*
- In 2023, there were no statistically significant levels above the groundwater protection standard.
- (B) *Provide the date when the assessment of corrective measures was initiated for the CCR unit*
- Not applicable
- (C) *Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit*
- Not applicable
- (D) *Provide the date when the assessment of corrective measures was completed for the CCR unit*
- 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*
- Not applicable
- vi. *Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period*
- Not applicable

Based on the 2023 sampling and data analysis results, WSP USA Inc. (WSP) recommends that Dominion Energy continue to maintain an Assessment Monitoring Program at this Unit.

1.0 INTRODUCTION

This *2023 CCR Annual Groundwater Monitoring and Corrective Action Report* (Report) was prepared on behalf of Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion Energy) for the Mt. Storm Power Station (Station) Phase A Industrial Landfill (Unit), located in Mt. Storm, West Virginia. The Unit is subject to the groundwater monitoring requirements in Title 40 Code of Federal Regulations (CFR) Part 257.50 *et seq.* [Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule; Federal Register Vol. 80, No. 74, 21302-21501 on April 17, 2015, as amended, also known as the CCR Rule)] (EPA, 2015, 2016, 2018, 2020a, 2020b), as well as Title 33 Subsection 33-1B-1 *et seq.* of the West Virginia Legislative Rule Department of Waste Management (WV CCR Rule; effective date of March 1, 2022). Pursuant to the CCR Rule, no later than January 31 annually, the owner or operator of a CCR Unit must prepare an annual groundwater monitoring and corrective action report for the CCR Unit documenting the status of groundwater monitoring and corrective action programs for the preceding year.

WSP USA Inc. (WSP) has prepared this Report for the Unit on behalf of Dominion Energy in accordance with CCR Rule §257.90(e). This Report presents relevant data evaluations from the second semi-annual 2022 event that were completed in 2023, provides the monitoring data and required data evaluations for the first semi-annual CCR monitoring compliance event performed in April 2023, and provides the monitoring data for the second semi-annual CCR monitoring compliance event performed in October 2023.

1.1 Site Location

The Station is located at 436 Dominion Boulevard in Mt. Storm, West Virginia approximately 40 miles south-southwest of Cumberland, Maryland. The Unit is located approximately 2,500 feet to the west of the Station on the east side of West Virginia Highway 93 (Power Station Highway). A Site Location Map is presented as Drawing 1.

1.2 Site History

The Station and adjoining 1,200-acre Mt. Storm Lake were constructed in 1965. Currently, the CCR generated by the 1,600-megawatt Station is disposed of in the Unit and the adjacent Phase B Landfill, which is addressed in a separate report. The Phase A Landfill was permitted in 1993 as a 191-acre unit for disposal of flue-gas desulfurization (FGD) solids. Groundwater monitoring at the Unit, required under the CCR Rule, was initiated in 2016.

1.3 Key Actions

Key actions for this Unit to date are as follows:

- Permitted for management of CCR by the West Virginia Department of Environmental Protection (DEP) under Solid Waste/National Discharge Elimination System (NPDES) permit No. WV0110256;
- Initiated the Detection Monitoring Program (DMP) on March 15, 2016, with the collection of eight baseline/background samples and completed the background monitoring activities on August 23, 2017, pursuant to the CCR Rule [257.94(b)];
- Conducted the initial DMP compliance sampling event between October 4 and October 16, 2017, and completed the sample analyses on October 23, 2017, pursuant to the CCR Rule [257.94];
- Placed a copy of the Unit's Groundwater Monitoring Plan (GMP) documenting the design information for the monitoring wells pursuant to the CCR Rule [257.91(e)(1)] in the Station's operating record on October 17, 2017 (AECOM, 2017a), pursuant to the CCR Rule [257.105(h)(2)];
- Certified the groundwater monitoring system pursuant to the CCR Rule [257.91(f) and posted the Certification in the Station's operating record on October 17, 2017, pursuant to the CCR Rule [257.105(h)(3)];
- Certified the selection of a statistical method pursuant to the CCR Rule [257.93(f)(6)] and posted the Certification in the Station's operating record on October 17, 2017, pursuant to the CCR Rule [257.105(h)(4)];
- Placed a notification of a Statistically Significant Increase (SSI) over the Unit's background concentrations under the DMP in the Station's operating record on January 21, 2018;
- Established the Assessment Monitoring Program (AMP) on April 20, 2018, pursuant to the CCR Rule [257.94(e)(3)], with a notification placed in the Unit's operating record on May 20, 2018, pursuant to the CCR Rule [257.105(h)(5)];
- Conducted the initial AMP compliance sampling event on March 19, 2018, and completed the sample analyses on April 20, 2018, pursuant to the CCR Rule [257.95(b)].
- Established groundwater protection standards (GWPS) for detected constituents in Appendix IV of Part 257 on October 17, 2018, pursuant to the CCR Rule [257.95(d)(2)];
- Updated background concentrations for Appendix III and IV constituents on September 17, 2020;
- Conducted the first semi-annual 2023 AMP compliance sampling event on April 18, 2023, and completed the sample analyses on May 24, 2023, pursuant to the CCR Rule [257.95(d)(1)]; and
- Conducted the second semi-annual 2023 AMP compliance sampling event on October 23-24, 2023, and completed the sample analyses on December 7, 2023, pursuant to the CCR Rule [257.95(d)(1)].

1.4 Monitoring Program Concerns

There were no monitoring program concerns identified during the semi-annual AMP compliance events conducted in 2023.

2.0 SITE INFORMATION

The Station is a coal-fired power station with a generating capacity of approximately 1,600 megawatts. The first power generation turbine at the Station went online in September 1965 and was followed by the second turbine in June 1966. The third turbine went online December 1973. The Unit is located on the Station property to the southwest of the power generation facility on the southern side of West Virginia Route 48. The Unit encompasses an approximate permitted area of 191 acres. The Unit is regulated under the provisions of NPDES Permit No. WV0110256.

The Unit was subject to the groundwater monitoring provisions of the CCR Rule by October 17, 2017. The DEP incorporated the Federal CCR Rule, by reference, as part of the West Virginia Solid Waste Management Regulations in legislative rule Title 33 Subsection 33-1B-1 *et seq.*, effective date of March 1, 2022. As such, the unit is now also subject to the WV CCR Rule.

2.1 Monitoring Well Network

The Unit's GMP (AECOM, 2017a) details the design of the CCR Rule groundwater monitoring network. As presented in the GMP, the monitoring network is comprised of two (2) upgradient/background wells (MW-22 and MWFGDW-2) and four (4) downgradient monitoring wells (MW-5, MW-8, MW-10, and MWFGDW-6) designed to monitor the uppermost aquifer beneath the Unit. Three (3) additional wells (MWFGDW-3, MWFGDW-4, and MWFGDW-5) are used as observation wells for groundwater elevation, as necessary. The groundwater monitoring well locations relative to the Unit are shown on Drawing 2.

2.1.1 Monitoring Well Installation and Decommissioning Activities

No groundwater monitoring wells associated with the CCR compliance well network were installed or decommissioned in calendar year 2023.

2.2 Geology and Hydrogeology

A summary of the geology and hydrogeology for the Unit is presented in the following sections.

2.2.1 Geology

As presented on the West Virginia geologic map, the Station is located within the high plateau region of the Appalachian High Plateau physiographic province (Cardwell, 1968). The high plateau area is underlain by Paleozoic sedimentary rocks (Ordovician to Mississippian age) and the rocks are folded into a sequence of north-easterly trending parallel anticlines and synclines. Locally the area is referred to as the Allegheny Mountains. The Station is located on the eastern limb of the Blackwater Anticline which parallels the Little Blackwater River.

The area is underlain by formations of the Pennsylvanian-age Conemaugh and Allegheny Groups, which include, in descending order:

- Conemaugh Group
 - Buffalo Sandstone
 - Brush Creek shale and sandstone
 - Upper and Lower Mahoning Sandstones
 - Uffington Shale
- Allegheny Group
 - Upper Freeport Coal
 - Bolivar Claystone
 - Upper Freeport Sandstone
 - Lower Freeport Coal

The near surface geology is comprised of unconsolidated colluvium sediments that locally overlie decomposed (saprolitic) sandstone and shale transitioning to fractured competent sandstone and shale interbedded with coal beds. At the Station, the upper Brush Creek and Mahoning coal beds of the Conemaugh Group are absent, while the Upper Freeport and Lower Freeport coal beds of the Allegheny Group are present. The Upper Freeport coal bed is reported to have been mined using a combination of open pit and longwall mining technology, while the Lower Freeport coal bed is reported to be unmined.

2.2.2 Hydrogeology

The uppermost aquifer beneath the Unit is present within the weathered sedimentary rocks and colluvial deposits, generally within 9 to 30 feet below ground surface (bgs). The uppermost aquifer is unconfined and extends vertically into the lowered fractured bedrock formations with the uppermost shale formation acting as an aquitard. The groundwater gradient and approximate groundwater flow direction in the uppermost aquifer beneath the Unit are towards the east.

2.2.3 Potentiometric Surface Evaluation

Historical static water level data for the Unit are summarized in Table 1. Consistent with the requirements of the CCR Rule, the rate and direction of groundwater flow within the uppermost aquifer beneath the Unit was determined after each sampling event. The Potentiometric Surface Maps presented as Drawings 2 and 3 were prepared using static water level data obtained during the first and second semi-annual 2023 AMP events on April 17 and October 23, 2023, respectively. The interpreted data indicates that the hydraulic gradient and estimated

groundwater flow direction remains consistent with previous interpretations. Based on network review and regulatory requirements, WSP believes that the groundwater monitoring wells continue to be operated and maintained so that they perform to the design specifications in the Groundwater Monitoring System Certification for the Unit (AECOM, 2017b) consistent with 40CFR §257.91(e)(2) of the CCR Rule.

Using the groundwater contours presented as an overlay on Drawings 2 and 3, the average hydraulic gradient for the uppermost aquifer in the study area was calculated for each monitoring event using the following equations.

The average hydraulic gradient along the ideal flow line beneath the Unit was calculated using the following equations:

$$i = h_L / L$$

Where: i = hydraulic gradient (unitless)
 h_L = head loss (elevation difference in feet)
 L = length (horizontal distance in feet)

The groundwater flow rate was calculated using the following formula:

$$V = ki / \theta$$

Where: V = Groundwater Velocity (cm/s)
 k = hydraulic conductivity (cm/s)
 i = hydraulic gradient (unitless)
 θ = assumed porosity (unitless)

Using the estimated effective porosity value of 10% for the weathered and fractured bedrock comprising the uppermost aquifer, the estimated average hydraulic conductivity values for the different matrices of 1.17E-05 centimeters per second (geometric average of available slug test data), and the calculated gradient, the average rate of groundwater flow (V_{gw}) for the saprolite comprising the uppermost aquifer beneath the Unit was calculated and is summarized in the following table.

Groundwater Flow	Hydraulic Conductivity (k, cm/s)	Contour lines (feet amsl)	Flow Length (feet)	Average Gradient (i)	Assumed Porosity (θ)	Estimated Groundwater Velocity	
						(cm/s)	(feet/year)
1 st Semi-Annual Assessment Monitoring Program Event (April 17, 2023)							
V_{gw}	1.17E-05	3500-3300	3,784	0.053	0.10	6.2E-06	6.4
2 nd Semi-Annual Assessment Monitoring Program Event (October 23, 2023)							
V_{gw}	1.17E-05	3500-3300	3,688	0.054	0.10	6.3E-06	6.5

As presented, the estimated average groundwater flow rate in the uppermost aquifer beneath the Unit is approximately 6.4 to 6.5 feet per year. The calculated flow rate for the events conducted in 2023 is consistent with previous calculations for the Unit.

3.0 FIELD ACTIVITIES

Pursuant to the requirements in 40 CFR 257.95(d)(1) two (2) semi-annual AMP events were completed in 2023 for the Unit for the constituents and parameters listed in Appendix III and Appendix IV of the CCR Rule. Summaries of the AMP sampling events are presented below.

Monitoring Event	Sample Dates	Final Laboratory Package Receipt Date
1 st Semi-Annual Assessment Monitoring Program Event	April 18, 2023	May 24, 2023
2 nd Semi-Annual Assessment Monitoring Program Event	October 23-24, 2023	December 7, 2023

During each of the AMP sampling events, the compliance monitoring wells were sampled in accordance with the procedures presented in the Station's GMP (AECOM, 2017a).

Samples collected during each of the sampling events were shipped via FedEx on ice in secured coolers under chain-of-custody control to Eurofins Cleveland in Barberton, Ohio -. Total dissolved solids and radium samples were then shipped to the Eurofins Pittsburgh (Pennsylvania) and Eurofins St. Louis (TestAmerica Missouri) for analysis. The three (3) Eurofins laboratory locations are West Virginia DEP accredited laboratories (Eurofins Cleveland #210, Eurofins Pittsburgh #142, and Eurofins St. Louis #381) for the CCR Rule Appendix III and IV constituents analyzed.

4.0 LABORATORY ANALYTICAL RESULTS

Laboratory analytical results from the AMP sampling events conducted and/or evaluated in 2023 are summarized in the following sections.

4.1 2nd Semi-Annual 2022 Assessment Monitoring Program Event

The groundwater samples collected during the second semi-annual 2022 AMP event were analyzed by Eurofins for the presence of concentrations of the constituents and parameters listed in Appendix III of the CCR rule and previously detected constituents and parameters of Appendix IV of the CCR Rule. The original laboratory certificates of analysis, chain-of-custody forms, and field logs for the sampling event were previously included in the 2022 CCR Annual Groundwater Monitoring and Corrective Action Report. A summary of the CCR sampling data for the Unit is presented in Table 2.

4.2 1st Semi-Annual 2023 Assessment Monitoring Program Event

The groundwater samples collected during the first semi-annual 2023 AMP event were analyzed by Eurofins for the presence of concentrations of the constituents and parameters listed in Appendix III and Appendix IV of the CCR Rule. The laboratory certificates of analysis, chain-of-custody forms, and field logs for the sampling event are presented in Appendix A. A summary of the CCR sampling data for the Unit is included in Table 3.

4.3 2nd Semi-Annual 2023 Assessment Monitoring Program Event

The groundwater samples collected during the second semi-annual 2023 AMP event were analyzed by Eurofins for the presence of concentrations of the constituents and parameters listed in Appendix III and Appendix IV constituents. The laboratory certificates of analysis, chain--of--custody forms, and field logs for the sampling event are presented in Appendix B. A summary of the CCR sampling data for the Unit is included in Table 4.

5.0 DATA QUALITY VALIDATION

The Quality Assurance (QA) and quality control (QC) data provided by the laboratory for the AMP sampling events were reviewed to ensure that the analytical results met the project's data quality objectives as outlined in the Station's GMP (AECOM, 2017a). The review process was performed by Environmental Standards, Inc. (ESI) in accordance with procedures outlined in the United States Environmental Protection Agency (EPA) National Functional Guidelines for Inorganic Superfund Methods Data Review, January 2017 (EPA, 2017).

5.1 1st Semi-Annual 2023 Compliance Event Findings

The laboratory and field QA/QC data for the first semi-annual 2023 compliance monitoring event samples collected April 18, 2023, were reviewed by ESI. Field QA/QC samples for this event included a field blank and a duplicate sample that was collected from compliance well MW-10. These QA/QC samples were analyzed for the same constituents as the groundwater samples. Based on review of the laboratory-provided QC data and EPA guidance recommendations, the data for this sampling event were determined to meet the data quality objectives for the project and is suitable for use with applied data qualifiers. It is noted that the select reported results for lithium were flagged not detected by the validator due to field blank and/or laboratory blank contamination. In addition, the total dissolved solids result for MW-10 was qualified as estimated due to being analyzed in exceedance of the holding time. A copy of the data validation record completed by ESI is presented in Appendix A.

5.2 2nd Semi-Annual 2023 Compliance Event Findings

The laboratory and field QA/QC data for the second semi-annual 2023 compliance monitoring event samples collected October 23-24, 2023, were reviewed by ESI. Field QA/QC samples for this event included a field blank sample and a duplicate sample that was collected from compliance well MW-22. These QA/QC samples were analyzed for the same constituents as the groundwater samples. Based on review of the laboratory-provided QC data and EPA guidance recommendations, the data for this sampling event were determined to meet the data quality objectives for the project and is suitable for use with applied data qualifiers. It is noted that dissolved solids at MWFGDW-2 was flagged as estimated by the validator due to being analyzed in exceedance of the holding time. Additionally, the reported result for combined radium at MWFGDW-2 was flagged as estimated due to laboratory blank contamination and field duplicate imprecision. A copy of the data validation record completed by ESI is presented in Appendix B.

6.0 STATISTICAL EVALUATION OF GROUNDWATER DATA

Per 40 CFR §257.94(e)(1), the Unit advanced into the AMP in April 2018. Consistent with the CCR Rule requirements (and as adopted by the WV CCR Rule), the second semi-annual 2022 and first semi-annual 2023 monitoring results were compared to site-specific background concentrations and GWPS established on October 17, 2018, and updated on September 17, 2020.

6.1 2nd Semi-Annual 2022 Assessment Monitoring Data Evaluations

Pursuant to 40 CFR §257.95(e,f,g), the results from the Unit's monitoring wells were compared to established background concentrations and SSIs were identified over the Unit's background for the second semi-annual 2022 AMP sampling event in November 2022. Concentrations above background are identified in Table 2.

There were no Federal GWPS exceedances identified for the 2022 second semi-annual AMP sampling event.

6.2 1st Semi-Annual 2023 Assessment Monitoring Data Evaluations

Pursuant to 40 CFR §257.95(e,f,g), the results from the Unit's monitoring wells were compared to updated background concentrations and SSIs were identified over the Unit's background for the first semi-annual 2023 AMP sampling event in April 2023. Concentrations above background are identified in Table 3.

There were no Federal or WV CCR Rule GWPS exceedances identified for the first semi-annual 2023 AMP sampling event.

6.3 2nd Semi-Annual 2023 Assessment Monitoring Data Evaluations

The data for the second semi-annual 2023 AMP sampling event are being evaluated against the established Federal and WV CCR Rule GWPS for the Unit and the Facility background concentrations in accordance with the CCR Rule timeframe. The results from those evaluations will be presented in the *2024 Annual Groundwater Monitoring and Corrective Action Report*.

7.0 CONCLUSIONS

7.1 Findings

The first semi-annual 2023 AMP compliance sampling event was completed on April 18, 2023, with sample analyses completed on May 24, 2023. The second semi-annual 2023 AMP compliance sampling event was completed on October 23-24, 2023, with sample analyses complete on December 7, 2023. These groundwater sampling and analysis activities were conducted in accordance with the requirements of the Unit's GMP.

Comparisons of the laboratory analytical results from the 2022 second semi-annual and 2023 first semi-annual sampling events to Federal and WV CCR GWPS identified no GWPS exceedances. Monitoring results from the second 2023 semi-annual AMP event conducted in October 2023 are being evaluated against site-specific Federal and WV CCR Rule GWPS in accordance with the applicable timeframe.

7.2 Planned Activities

Based on the results presented herein, Dominion Energy intends to complete the required data evaluations for the second semi-annual 2023 AMP sampling event with the CCR Rule prescribed timeframe and continue semi-annual groundwater monitoring activities under the AMP in 2024 that are consistent with the provisions in the CCR Rule (part 257.95 *et. seq*), the WV CCR Rule, and the Unit's GMP.

8.0 REFERENCES

- AECOM. 2017a. *CCR Groundwater Monitoring Plan Phase A Landfill and Phase B Landfill, Mount Storm Power Station, Mt. Storm, West Virginia*. October.
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9.0 SIGNATURE SECTION

This 2023 Annual CCR Groundwater Monitoring and Corrective Action Report (Report) has been prepared by a qualified groundwater scientist on behalf of Virginia Electric and Power Company d/b/a Dominion Energy Virginia (Dominion Energy) for the Mt. Storm Power Station Phase A Industrial Landfill. This Report satisfies the reporting requirements specified in Title 40 Code of Federal Regulations (CFR) Part 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)*].

Signature

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[https://golderassociates.sharepoint.com/sites/142954/project files/6 deliverables/phase a/2022-1-31 2021 amr phase a ccr/2022-1-31 mount storm phase a ccr amr.docx](https://golderassociates.sharepoint.com/sites/142954/project%20files/6%20deliverables/phase%20a/2022-1-31%202021%20amr%20phase%20a%20ccr/2022-1-31%20mount%20storm%20phase%20a%20ccr%20amr.docx)

TABLES

TABLE 1				
SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA				
MOUNT STORM POWER STATION PHASE A LANDFILL				
Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
MW-22	3569.70	03/15/2016	16.96	3552.74
		06/21/2016	18.72	3550.98
		08/23/2016	19.11	3550.59
		10/12/2016	18.55	3551.15
		04/04/2017	15.97	3553.73
		05/09/2017	15.82	3553.88
		06/20/2017	19.48	3550.22
		08/22/2017	18.79	3550.91
		10/04/2017	22.29	3547.41
		10/12/2017	23.00	3546.70
		03/19/2018	16.85	3552.85
		06/05/2018	15.74	3553.96
		10/29/2018	16.59	3553.11
		4/16/2019	18.40	3551.30
		10/28/2019	24.89	3544.81
		04/13/2020	15.79	3553.91
		10/12/2020	22.61	3547.09
		04/26/2021	16.85	3552.85
11/01/2021	19.65	3550.05		
04/25/2022	16.36	3553.34		
11/07/2022	23.32	3546.38		
04/17/2023	17.35	3552.35		
10/23/2023	20.52	3549.18		
MWFGDW2	3519.70	03/15/2016	19.48	3500.22
		06/21/2016	22.42	3497.28
		08/23/2016	20.75	3498.95
		10/12/2016	19.54	3500.16
		04/04/2017	18.43	3501.27
		05/09/2017	18.92	3500.78
		06/20/2017	22.70	3497.00
		08/22/2017	23.38	3496.32
		10/12/2017	NM	NM
		03/19/2018	19.21	3500.49
		06/05/2018	28.62	3491.08
		10/29/2018	19.55	3500.15
		04/16/2019	19.59	3500.11
		10/28/2019	20.18	3499.52
		04/13/2020	16.97	3502.73
		10/12/2020	BTOP (>25.00)	<3494.70
		04/26/2021	18.50	3501.20
		11/01/2021	19.05	3500.65
04/25/2022	17.15	3502.55		
11/07/2022	BTOP (>25.03)	<3494.67		
04/17/2023	18.80	3500.90		
10/23/2023	18.50	3501.20		

TABLE 1				
SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA				
MOUNT STORM POWER STATION PHASE A LANDFILL				
Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
MW-5	3382.09	03/15/2016	36.65	3345.44
		06/21/2016	37.00	3345.09
		08/24/2016	37.42	3344.67
		10/12/2016	37.51	3344.58
		04/04/2017	36.27	3345.82
		05/08/2017	35.28	3346.81
		06/20/2017	37.72	3344.37
		08/23/2017	37.12	3344.97
		10/05/2017	37.71	3344.38
		10/12/2017	37.84	3344.25
		03/19/2018	36.52	3345.57
		06/05/2018	35.59	3346.50
		10/29/2018	36.28	3345.81
		04/15/2019	36.82	3345.27
		10/28/2019	38.45	3343.64
		04/13/2020	36.30	3345.79
		10/12/2020	38.19	3343.90
		04/26/2021	36.37	3345.72
11/01/2021	37.20	3344.89		
04/25/2022	36.10	3345.99		
11/07/2022	38.38	3343.71		
04/17/2023	36.40	3345.69		
10/23/2023	37.78	3344.31		
MW-8	3391.80	03/15/2016	17.19	3374.61
		06/21/2016	20.38	3371.42
		08/24/2016	24.80	3367.00
		10/12/2016	19.91	3371.89
		04/05/2017	16.76	3375.04
		05/09/2017	16.73	3375.07
		06/21/2017	42.35	3349.45
		08/23/2017	39.92	3351.88
		10/12/2017	NM	NM
		03/19/2018	32.90	3358.90
		06/05/2018	23.89	3367.91
		10/29/2018	18.08	3373.72
		4/15/2019	18.75	3373.05
		10/28/2019	51.11	3340.69
		04/13/2020	17.54	3374.26
		10/12/2020	51.01	3340.79
		04/26/2021	17.97	3373.83
		11/01/2021	16.62	3375.18
04/25/2022	16.98	3374.82		
11/07/2022	46.80	3345.00		
04/17/2023	29.30	3362.50		
10/23/2023	27.42	3364.38		

TABLE 1				
SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA				
MOUNT STORM POWER STATION PHASE A LANDFILL				
Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft ASML)
MW-10	3406.82	03/15/2016	23.18	3383.64
		06/21/2016	23.70	3383.12
		08/24/2016	23.73	3383.09
		10/12/2016	23.41	3383.41
		04/04/2017	23.33	3383.49
		05/08/2017	23.22	3383.60
		06/21/2017	23.64	3383.18
		08/23/2017	23.75	3383.07
		10/05/2017	29.88	3376.94
		10/12/2017	31.56	3375.26
		03/19/2018	23.59	3383.23
		06/05/2018	23.22	3383.60
		10/29/2018	23.85	3382.97
		4/15/2019	23.24	3383.58
		10/28/2019	23.80	3383.02
		04/13/2020	22.23	3384.59
		10/12/2020	27.40	3379.42
		04/26/2021	23.32	3383.50
		11/01/2021	23.12	3383.70
04/25/2022	23.30	3383.52		
11/07/2022	32.50	3374.32		
04/17/2023	24.00	3382.82		
10/23/2023	23.08	3383.74		
MWFGDW3	3320.78	03/15/2016	12.40	3308.38
		06/21/2016	14.86	3305.92
		08/24/2016	17.44	3303.34
		10/12/2016	13.21	3307.57
		04/05/2017	10.25	3310.53
		05/09/2017	9.62	3311.16
		06/21/2017	17.30	3303.48
		08/23/2017	17.95	3302.83
		03/19/2018	NM	NM
		06/05/2018	NM	NM
		10/29/2018	12.06	3308.72
		4/15/2019	13.27	3307.51
		10/28/2019	19.02	3301.76
		04/13/2020	9.79	3310.99
		10/12/2020	21.80	3298.98
		04/26/2021	13.20	3307.58
		11/01/2021	7.15	3313.63
		04/25/2022	29.48	3291.30
		11/07/2022	22.32	3298.46
04/17/2023	14.85	3305.93		
10/23/2023	17.17	3303.61		

TABLE 1				
SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA				
MOUNT STORM POWER STATION PHASE A LANDFILL				
Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft AMSL)
MWFGDW4	3302.57	03/15/2016	16.30	3286.27
		06/21/2016	20.44	3282.13
		08/24/2016	29.36	3273.21
		10/12/2016	17.11	3285.46
		04/05/2017	12.02	3290.55
		05/09/2017	11.97	3290.60
		06/21/2017	29.28	3273.29
		08/23/2017	28.17	3274.40
		03/19/2018	NM	NM
		06/05/2018	NM	NM
		10/29/2018	16.15	3286.42
		4/15/2019	18.73	3283.84
		10/28/2019	30.33	3272.24
		04/13/2020	12.72	3289.85
		10/12/2020	30.14	3272.43
		04/26/2021	20.60	3281.97
		11/01/2021	10.22	3292.35
04/25/2022	11.91	3292.36		
11/07/2022	30.21	3272.36		
04/17/2023	18.43	3284.14		
10/23/2023	29.60	3272.97		
MWFGDW5	3296.92	03/15/2016	0.00	3296.92
		06/21/2016	1.24	3295.68
		08/24/2016	4.36	3292.56
		10/12/2016	1.95	3294.97
		04/05/2017	0.00	3296.92
		05/09/2017	0.00	3296.92
		06/21/2017	3.37	3293.55
		08/23/2017	4.85	3292.07
		03/19/2018	NM	NM
		06/05/2018	NM	NM
		10/29/2018	0.53	3296.39
		4/15/2019	0.90	3296.02
		10/28/2019	13.91	3283.01
		04/13/2020	-1.19	3298.11
		10/12/2020	13.36	3283.56
		04/26/2021	BTOP	<3296.92
		11/01/2021	0.00	3296.92
04/25/2022	0.00	3296.92		
11/07/2022	14.79	3282.13		
04/17/2023	1.20	3295.72		
10/23/2023	8.25	3288.67		

TABLE 1				
SUMMARY OF HISTORICAL CCR STATIC WATER LEVEL DATA				
MOUNT STORM POWER STATION PHASE A LANDFILL				
Monitoring Well	Top of Casing Elevation (ft ASML)	Date	Depth to Water (feet)	Static Water Level Elevation (ft ASML)
MWFGDW6	3289.30	03/15/2016	17.66	3271.64
		06/21/2016	18.60	3270.70
		08/23/2016	19.38	3269.92
		10/12/2016	19.09	3270.21
		04/05/2017	17.79	3271.51
		05/08/2017	17.84	3271.46
		06/20/2017	18.90	3270.40
		08/23/2017	19.18	3270.12
		10/16/2017	20.68	3268.62
		03/19/2018	18.02	3271.28
		06/05/2018	17.39	3271.91
		10/29/2018	18.15	3271.15
		4/15/2019	18.51	3270.79
		10/28/2019	20.49	3268.81
		04/13/2020	17.67	3271.63
		10/12/2020	20.39	3268.91
		04/26/2021	18.00	3271.30
		11/01/2021	19.11	3270.19
04/25/2022	17.35	3271.95		
11/07/2022	20.51	3268.79		
04/17/2023	17.80	3271.50		
10/23/2023	19.85	3269.45		
Notes:	ft - Feet			
	ft AMSL - Feet Above Mean Sea Level			
	BTOP - Below Top of Pump			
	NM - Not Measured			

Table 2
Summary of 2nd Semi-Annual 2022 Assessment Monitoring Program Event Data (November 2022)
Phase A Landfill, Mount Storm Power Station

Parameter Name	Units	CCR Site-Specific BKGD	Federal GWPS	WV CCR GWPS	Upgradient Wells								Downgradient Wells								Field Quality Control Samples															
					MW-22 11/8/2022				MWFGDW2 11/8/2022				MW-5 11/8/2022				MW-8 11/9/2022				MW-10 11/8/2022				MWFGDW6 11/10/2022				MW-22 Duplicate 11/8/2022				Field Blank 11/8/2022			
					Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL
CCR Appendix III Constituents																																				
Boron	ug/L	QL (100)	--	--	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100				
Calcium	ug/L	120000	--	--	4700	J	580	1000	79000	J	580	1000	46000	J	580	1000	21000	J	580	1000	4600	J	580	1000	47000	J	580	1000	110000	J	580	1000				
Chloride	mg/L	2.477	--	--	< 0.78	U	0.78	1.0	< 0.92	U	0.92	1.0	1.3	J	0.28	1.0	39	J	0.28	1.0	< 0.78	U	0.78	1.0	3.6	J	0.28	1.0	< 0.94	U	0.94	1.0				
Fluoride	mg/L	0.114	--	4	0.029	J	0.024	0.050	0.10	J	0.024	0.050	0.040	J	0.024	0.050	0.078	J	0.024	0.050	0.027	J	0.024	0.050	0.081	J	0.024	0.050	0.034	J	0.024	0.050				
pH	SU	6.10 - 8.52	--	--	6.43	J	0.01	0.01	6.48	J	0.01	0.01	6.32	J	0.01	0.01	6.06	J	0.01	0.01	4.42	J	0.01	0.01	6.06	J	0.01	0.01	--	J	--	--				
Sulfate	mg/L	47.75	--	--	8.7	J	0.35	1.0	40	J	0.35	1.0	12	J	0.35	1.0	21	J	0.35	1.0	8.5	J	0.35	1.0	8.5	J	0.35	1.0	23	J	0.35	1.0				
Total Dissolved Solids	mg/L	380	--	--	350	J	10	10	280	J	10	10	170	J	10	10	150	J	10	10	37	J	10	10	140	J	10	10	340	J	10	10				
Detected CCR Appendix IV Constituents																																				
Arsenic	ug/L	QL (5)	10	10	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0				
Barium	ug/L	495.8	2,000	2,000	130	J	2.2	5.0	290	J	2.2	5.0	140	J	2.2	5.0	65	J	2.2	5.0	120	J	2.2	5.0	160	J	2.2	5.0	330	J	2.2	5.0				
Beryllium	ug/L	1.6	4	4	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0				
Cadmium	ug/L	QL (3)	5	5	0.31	J	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	0.34	J	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0				
Chromium	ug/L	QL (5)	100	100	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0	< 2.5	U	2.5	5.0				
Cobalt	ug/L	QL (5)	6	QL (5)	2.9	J	0.19	1.0	< 0.19	U	0.19	1.0	< 0.19	U	0.19	1.0	0.94	J	0.19	1.0	2.8	J	0.19	1.0	1.3	J	0.19	1.0	< 0.19	U	0.19	1.0				
Fluoride	mg/L	0.114	4	4	0.029	J	0.024	0.050	0.10	J	0.024	0.050	0.040	J	0.024	0.050	0.078	J	0.024	0.050	0.027	J	0.024	0.050	0.081	J	0.024	0.050	0.034	J	0.024	0.050				
Lead	ug/L	6.3	15	6.3	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0				
Lithium	ug/L	QL (50)	40	QL (50)	< 3.0	U	3.0	8.0	12	J	1.7	8.0	8.5	J	1.7	8.0	3.2	J	1.7	8.0	3.2	J	1.7	8.0	3.9	J	1.7	8.0	9.7	J	1.7	8.0				
Selenium	ug/L	QL (5)	50	50	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0				
Thallium	ug/L	QL (1)	2	2	0.39	J	0.20	1.0	0.64	J	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	0.30	J	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0				
Radium 226 and 228 (combined)	pCi/L	QL (5)	5	5	0.923	J	--	--	0.280	U	--	--	0.271	U	--	--	0.343	U	--	--	0.583	J	--	--	0.289	U	--	--	0.262	U	--	--				
Field Parameters																																				
Conductivity	uS/cm	--	--	--	566	J	0.1	0.1	472.2	J	0.1	0.1	238.3	J	0.1	0.1	237.8	J	0.1	0.1	51.7	J	0.1	0.1	181.7	J	0.1	0.1	--	J	--	--				
Dissolved Oxygen	mg/L	--	--	--	1.50	J	0.01	0.01	5.25	J	0.01	0.01	2.21	J	0.01	0.01	6.05	J	0.01	0.01	0.29	J	0.01	0.01	1.48	J	0.01	0.01	--	J	--	--				
Oxidation Reduction Potential	millivolts	--	--	--	168.2	J	0.1	0.1	155.7	J	0.1	0.1	172.7	J	0.1	0.1	189.1	J	0.1	0.1	298.1	J	0.1	0.1	183.9	J	0.1	0.1	--	J	--	--				
Temperature	C	--	--	--	9.3	J	0.01	0.01	11.7	J	0.01	0.01	9.3	J	0.01	0.01	9.2	J	0.01	0.01	9.6	J	0.01	0.01	10.7	J	0.01	0.01	--	J	--	--				
Turbidity	NTU	--	--	--	9.18	J	0.1	0.1	5.99	J	0.1	0.1	3.79	J	0.1	0.1	8.61	J	0.1	0.1	7.72	J	0.1	0.1	9.42	J	0.1	0.1	--	J	--	--				

Notes:
 MDL = Method Detection Limit
 RL = Reporting Limit
 mg/L = Milligram per liter
 ug/L = Microgram per liter
 pCi/L = picoCurie per liter
 uS/cm = MicroSiemen per centimeter
 SU = Standard Units
 C = Degrees Celsius
 NTU = Nephelometric Turbidity Unit
 ft btc = feet below top of casing
 ft msl = feet above mean sea level
 GWPS = Groundwater Protection Standard
 WV CCR GWPS = West Virginia Coal Combustion Residuals Grounwater Protection Standard
 BKGD = Background
 CCR = Coal Combustion Residuals
 QL = Laboratory quantitation limit
Bold font = Detected constituent

Qualifiers (Qual):
 J = Quantitation is approximate due to limitations identified during data validation
 U = The analyte was not detected above the level of the sample reporting limit
 UJ = The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise

= Concentration greater than site specific background
 = Concentration greater than WV CCR GWPS and site background
 = Concentration greater than Federal GWPS, WV CCR GWPS, and site background

Table 4
Summary of 2nd Semi-Annual 2023 Assessment Monitoring Program Event Data (October 2023)
Phase A Landfill, Mount Storm Power Station

Sample ID: Sample Date:	Upgradient Wells								Downgradient Wells												Field Quality Control Samples											
	MW-22 10/23/2023				MWFGDW2 10/23/2023				MW-5 10/24/2023				MW-8 10/24/2023				MW-10 10/24/2023				MWFGDW6 10/24/2023				MW-22 Duplicate 10/23/2023				Field Blank 10/24/2023			
	Parameter Name	Units	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL	Result	Qual	MDL	RL		
CCR Appendix III Constituents																																
Boron	ug/L	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100	< 57	U	57	100			
Calcium	ug/L	110000		250	1000	54000		250	1000	40000		250	1000	110000		250	1000	5400		250	1000	20000		250	1000	110000		250	1000			
Chloride	mg/L	0.59	J	0.13	1.0	0.64	J	0.13	1.0	1.0		0.13	1.0	38		0.13	1.0	0.56	J	0.13	1.0	5.4		0.13	1.0	0.68	J	0.13	1.0			
Fluoride	mg/L	0.027	J	0.024	0.050	0.063		0.024	0.050	0.036	J	0.024	0.050	0.050		0.024	0.050	0.036	J	0.024	0.050	0.044	J	0.024	0.050	0.042	J	0.024	0.050			
pH	SU	6.25		0.01	0.01	6.40		0.01	0.01	6.68		0.01	0.01	5.85		0.01	0.01	4.46		0.01	0.01	6.27		0.01	0.01	--		--	--			
Sulfate	mg/L	22		0.35	1.0	41		0.35	1.0	10		0.35	1.0	18		0.35	1.0	12		0.35	1.0	8.4		0.35	1.0	24		0.35	1.0			
Total Dissolved Solids	mg/L	340		10	10	190	J	10	10	140		10	10	100		10	10	28		10	10	71		10	10	340		10	10			
Detected CCR Appendix IV Constituents																																
Antimony	ug/L	0.68	J	0.57	2.0	< 0.57	U	0.57	2.0	0.81	J	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0	< 0.57	U	0.57	2.0			
Arsenic	ug/L	0.88	J	0.75	5.0	< 0.75	U	0.75	5.0	0.95	J	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0	< 0.75	U	0.75	5.0			
Barium	ug/L	290		2.2	5.0	250		2.2	5.0	140		2.2	5.0	22		2.2	5.0	170		2.2	5.0	89		2.2	5.0	300		2.2	5.0			
Beryllium	ug/L	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	< 0.62	U	0.62	1.0	0.66	J	0.62	1.0			
Cadmium	ug/L	0.21	J	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0	0.42	J	0.20	1.0	< 0.20	U	0.20	1.0	< 0.20	U	0.20	1.0			
Chromium	ug/L	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0	< 1.2	U	1.2	5.0			
Cobalt	ug/L	0.34	J	0.19	1.0	< 0.19	U	0.19	1.0	< 0.19	U	0.19	1.0	0.25	J	0.19	1.0	2.1		0.19	1.0	0.32	J	0.19	1.0	0.25	J	0.19	1.0			
Fluoride	mg/L	0.027	J	0.024	0.050	0.063		0.024	0.050	0.036	J	0.024	0.050	0.050		0.024	0.050	0.036	J	0.024	0.050	0.044	J	0.024	0.050	0.042	J	0.024	0.050			
Lead	ug/L	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0	< 0.45	U	0.45	1.0			
Lithium	ug/L	9.6		1.7	8.0	8.3		1.7	8.0	8.9		1.7	8.0	2.6	J	1.7	8.0	2.3	J	1.7	8.0	< 1.7	U	1.7	8.0	9.5		1.7	8.0			
Mercury	ug/L	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20	< 0.13	U	0.13	0.20			
Molybdenum	ug/L	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	< 1.1	U	1.1	5.0	1.1	J	1.1	5.0			
Selenium	ug/L	1.2	J	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	< 0.89	U	0.89	5.0	1.2	J	0.89	5.0			
Thallium	ug/L	1.1		0.20	1.0	0.63	J	0.20	1.0	1.0		0.20	1.0	< 0.20	U	0.20	1.0	0.73	J	0.20	1.0	< 0.20	U	0.20	1.0	0.87	J	0.20	1.0			
Radium 226 and 228 (combined)	pCi/L	0.285	J	--	--	0.742	J	--	--	<0.503	U	--	--	<0.249	U	--	--	1.16		--	--	<0.379	U	--	--	1.79	J	--	--			
Field Parameters																																
Conductivity	uS/cm	588		0.1	0.1	355.7		0.1	0.1	223.4		0.1	0.1	202.2		0.1	0.1	60.5		0.1	0.1	178.0		0.1	0.1	--		--	--			
Dissolved Oxygen	mg/L	2.11		0.01	0.01	5.71		0.01	0.01	2.40		0.01	0.01	9.89		0.01	0.01	0.37		0.01	0.01	1.87		0.01	0.01	--		--	--			
Oxidation Reduction Potential	millivolts	249.9		0.1	0.1	119.0		0.1	0.1	22.0		0.1	0.1	199.5		0.1	0.1	311.6		0.1	0.1	230.7		0.1	0.1	--		--	--			
Temperature	C	9.7		0.01	0.01	11.7		0.01	0.01	9.5		0.01	0.01	9.5		0.01	0.01	9.6		0.01	0.01	11.7		0.01	0.01	--		--	--			
Turbidity	NTU	3.10		0.1	0.1	3.71		0.1	0.1	1.46		0.1	0.1	9.97		0.1	0.1	1.58		0.1	0.1	8.26		0.1	0.1	--		--	--			

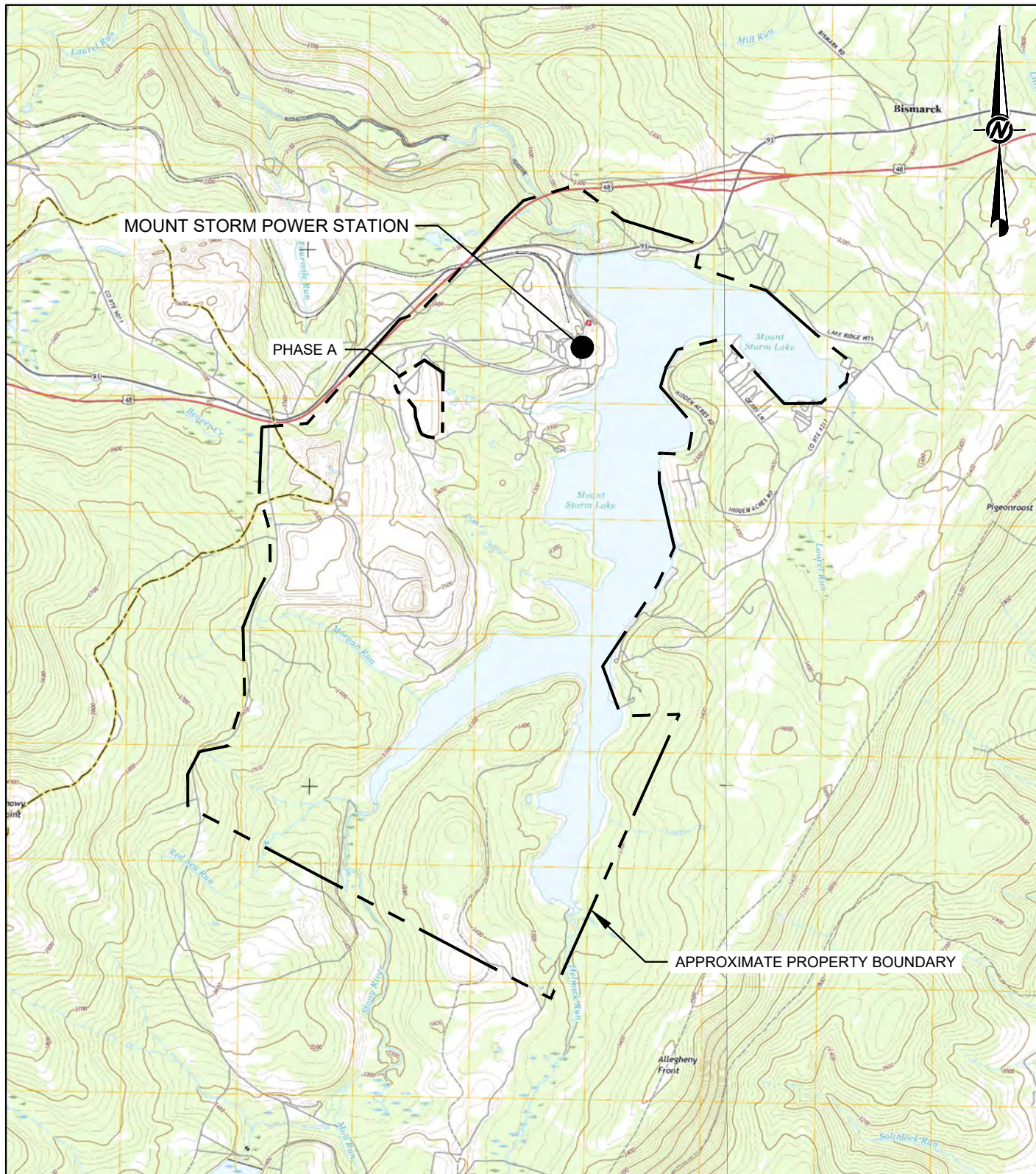
Notes:

MDL = Method Detection Limit
RL = Reporting Limit
mg/L = Milligram per liter
ug/L = Microgram per liter
pCi/L = picoCurie per liter
uS/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
Bold font = Detected constituent

Qualifiers (Qual):

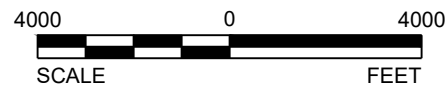
J = Quantitation is approximate due to limitations identified during data validation
U = The analyte was not detected above the level of the sample reporting limit
UJ = The analyte was not detected; the reporting limit is approximate and may be inaccurate or imprecise

DRAWINGS



REFERENCE

BASE MAP CONSISTS OF USGS TOPOGRAPHIC QUADRANGLES
MOUNT STORM LAKE AND GREENLAND GAP, WEST VIRGINIA, DATED 2016.



CLIENT
DOMINION ENERGY

PROJECT
MOUNT STORM POWER STATION
PHASE A LANDFILL

CONSULTANT
wsp
YYYY-MM-DD 2024-01-29
DESIGNED
PREPARED SIB
REVIEWED
APPROVED

TITLE
SITE LOCATION MAP

PROJECT NO. 31-406066
REV. 0
DRAWING 1

Path: C:\Plant Production Data Files\Drawing Data Files\31-406066\100_MtStormActive Drawings\31-406066_100_05.dwg

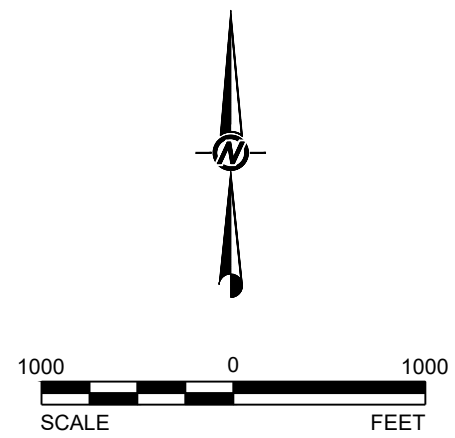


LEGEND

- APPROXIMATE LANDFILL BOUNDARY
- APPROXIMATE STREAM CENTERLINE
- POTENTIOMETRIC SURFACE CONTOUR
- APPROXIMATE GROUNDWATER FLOW LINE
- GROUNDWATER FLOW PATH LENGTH (FEET)
- MW-22
EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MWFGDW3
EXISTING GROUNDWATER OBSERVATION WELL LOCATION AND IDENTIFICATION
- (3293.47)
STATIC GROUNDWATER ELEVATION FOR APRIL 17-18, 2023 (FEET ABOVE MEAN SEA LEVEL)

REFERENCE

1. AERIAL IMAGE TAKEN FROM GOOGLE EARTH PRO ON 05/14/2018. MAP DATA BY: GOOGLE, IMAGERY DATE: 11/19/2013
2. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATUM, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
3. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.



CLIENT
DOMINION ENERGY

CONSULTANT	DESIGNED	2023-12-27
	PREPARED	RVS
	REVIEWED	SIB
	APPROVED	MGW
		MGW



PROJECT
MOUNT STORM POWER STATION
PHASE A LANDFILL

TITLE
POTENTIOMETRIC SURFACE MAP
APRIL 17, 2023

PROJECT NO.
31-406066

REV. 0 DRAWING NO. 2

1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

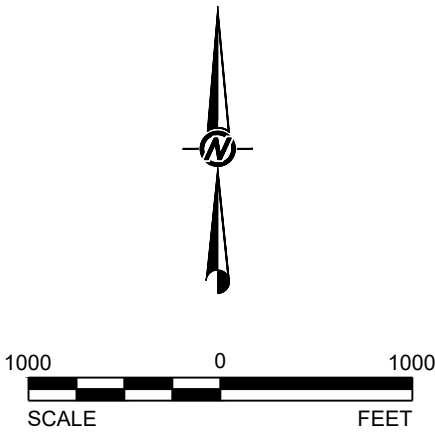


LEGEND

- APPROXIMATE LANDFILL BOUNDARY
- APPROXIMATE STREAM CENTERLINE
- POTENTIOMETRIC SURFACE CONTOUR
- APPROXIMATE GROUNDWATER FLOW LINE
- GROUNDWATER FLOW PATH LENGTH (FEET)
- MW-22
EXISTING GROUNDWATER MONITORING WELL LOCATION AND IDENTIFICATION
- MWFGDW3
EXISTING GROUNDWATER OBSERVATION WELL LOCATION AND IDENTIFICATION
- (3293.47)
STATIC GROUNDWATER ELEVATION FOR OCTOBER 23, 2023 (FEET ABOVE MEAN SEA LEVEL)

REFERENCE

1. AERIAL IMAGE TAKEN FROM GOOGLE EARTH PRO ON 05/14/2018. MAP DATA BY: GOOGLE, IMAGERY DATE: 11/19/2013
2. GROUNDWATER CONTOURS BASED ON LINEAR INTERPOLATION BETWEEN AND EXTRAPOLATION FROM KNOWN DATUM, TOPOGRAPHIC CONTOURS, AND KNOWN FIELD CONDITIONS. THEREFORE, GROUNDWATER CONTOURS MAY NOT REFLECT ACTUAL GROUNDWATER CONDITIONS.
3. GROUNDWATER CONTOUR LINES SHOW THE WATER TABLE SHAPE AND ELEVATION. THESE CONTOURS ARE INFERRED LINES FOLLOWING THE GROUNDWATER SURFACE AT A CONSTANT ELEVATION ABOVE SEA LEVEL. THE GROUNDWATER FLOW DIRECTION IS GENERALLY PERPENDICULAR TO THE GROUNDWATER SURFACE CONTOURS, SIMILAR TO THE RELATIONSHIP BETWEEN SURFACE WATER FLOW AND TOPOGRAPHIC CONTOURS.



Path: C:\Plant Production Data Files\Drawing Data Files\31-406066\31-406066_100_04.dwg

CLIENT
DOMINION ENERGY

YYYY-MM-DD	2023-12-27
DESIGNED	RVS
PREPARED	SIB
REVIEWED	MGW
APPROVED	MGW



PROJECT
MOUNT STORM POWER STATION
PHASE A LANDFILL

TITLE
POTENTIOMETRIC SURFACE MAP
OCTOBER 23, 2023

PROJECT NO.
31-406066

REV. 0 DRAWING 3

1" IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

APPENDIX A

**FIRST SEMI-ANNUAL 2023
ASSESSMENT MONITORING
PROGRAM EVENT FIELD DATA
SHEETS, LABORATORY
CERTIFICATES OF ANALYSIS,
CHAIN-OF-CUSTODY FORMS, AND
DATA VALIDATION FORMS**



Date: 04/17/23

WELL GAUGING LOG

Project Name: MSPS Phase A&B

Project No./Task No.: 31406066.005

Sampler(s): C. Megee, M. Knez

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
MW-22	CM	1420	17.35 29.85	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MWFGDW2	CM	1416	18.80	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-5	CM	1401	36.40	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-6R	CM	1253	61.10'	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-7	CM	1352	27.15	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-8	CM	1328	29.30	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-10	CM	1408	24.00	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-12R	CM	1254	14.60'	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-13	CM	1344	22.00	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-14	CM	1347	28.25	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MWFGDW3	CM	1307	14.85	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MWFGDW4	CM	1311	18.43	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MWFGDW5	CM	1315	1.20'	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MWFGDW6	CM	1319	17.80	-	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
					<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged
					<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged
					<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged

Observations/Notes: _____

Signature: CM

Date: 04/17/23

QA/QC Signature: M. Knez

Date: 04/18/23



MICROPURGE SAMPLING LOG

Date: 04/18/2023

Weather: Partly Sunny 40's

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
 Event: 1SA23 NPDES + CLR Sampler(s): C. Megec
 Well ID: MW-22 Field Calibration Completed: 04/18 123 @ 0820
 Well Diameter: 2.0 inches Initial Depth to Water: 17.45 feet
 Depth to Bottom: _____ feet Water Column Thickness: _____ feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI D005519840510 Peristaltic Pump Compressor Non-dedicated BP
 In-Situ _____ MP-10 Controller Box MP-15 Controller Box

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{oC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
0906	6.30	550	10.92	3.15	8.6	137.0	17.94	~300
0909	6.50	539	14.62	3.29	8.6	133.9	17.95	~300
0912	6.55	538	9.43	3.26	8.7	133.8	18.00	~300
0915	6.58	537	7.29	3.23	8.7	134.2	18.03	~300
0920	_____	S	A	M	P	L	E	_____
0952	6.55	470.6	4.94	3.28	8.7	142.0	18.30	~300

Purge Cycle (End): 23/7 seconds @ 35 psi Flow Rate (ml/min End): ~300
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 68.75(0.006) = 0.38
 Total Purge Volume (Gallons): ~2.0 Purge Water Management: On-site O.W.S.
 Purge Observations (color, odor, turbidity, sheen): Clear grab sample
 Purge time: 0858

Sample Time: 0920 Field Filtered (0.45um): Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl], Cr, Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
 Variance (Diss [Be, Cd, Cr, Pb, Ni]) LWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Ti, Rad 226-228) Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228) Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)

Other Observations / Equipment Operation Problems: 041823MS matrix spike / 041823MSD matrix spike dup
Sample ID: 041823MMW22 for NPDES. Sampled @ MW-22
 Sampler Signature: [Signature] Date: 04/18/23 Page 1 of 1
 QA/QC Signature: [Signature] Date: 04/18/23



MICROPURGE SAMPLING LOG

Date: 04/18/2023

Weather: Sunny 40's Windy

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005

Event: 1SA23 Sampler(s): C-Megac

Well ID: MWFGD-W2 Field Calibration Completed: 04/18/23 @ 0820

Well Diameter: 2.0 inches Initial Depth to Water: 18.80 feet

Depth to Bottom: - feet Water Column Thickness: - feet

Equipment Used: [x] WL Indicator [] Turbidity Meter [] Air Tank [x] Dedicated Bladder Pump
[x] YSI 200551813100510 [] Peristaltic Pump [] Compressor [] Non-dedicated BP
[] In-Situ [] MP-10 Controller Box [x] MP-15 Controller Box []

Table with 9 columns: Time (5 minute int.), pH (S.U.), Sp. Cond. (uS/cm)°C, Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), ORP (mV), DTW (feet), Flow Rate (mL/min). Rows include stabilization data and multiple sampling points from 1015 to 1113.

Purge Cycle (End): 24/6 seconds @ 20 psi Flow Rate (ml/min End): ~400

Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube): Vol=Depth to Pump x 0.006 gal/ft:

Total Purge Volume (Gallons): ~1.5 Purge Water Management: D.N.S Containment on-site

Purge Observations (color, odor, turbidity, sheen): Clear grab sample

Purge time: 1010

Sample Time: 1030 Field Filtered (0.45um): [x] Yes [] No

Sample Parameters/Analyte(s): [] Petro (DRO) [] CCR Appendix III [] CCR Appendix IV
[] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], [x] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl], Cr, Cl, SO4, TDS, TSS) Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
[] Variance (Diss [Be, Cd, Cr, [] LVWSP IV Detects (As, Ba, Be, Cd, [x] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Pb, Ni]) Cr, Co, Pb, Mo, Tl, Rad 226-228) Pb, Li, Se, Rad 226-228) Tl, Rad 226-228)

Other Observations / Equipment Operation Problems: 041823msmatrixspike/041823msdmatrixspike due
Sample ID: 041823MMWFGD-W2 For CCR Sampled @ MWFGD-W2

Sampler Signature: [Signature] Date: 04/18/23 Page 1 of 1

QA/QC Signature: [Signature] Date: 04/21/23



MICROPURGE SAMPLING LOG

Date: 04/18/2023Weather: Sunny 50's Windy

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
 Event: 1SA23 Phase A+B CCR+NPDES Sampler(s): C. Mezeo
 Well ID: MW-10 Field Calibration Completed: 04/18/23 @ 0820
 Well Diameter: 2.0 inches Initial Depth to Water: 23.64 feet
 Depth to Bottom: _____ feet Water Column Thickness: _____ feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI ProDSS19B100510 Peristaltic Pump Compressor Non-dedicated BP
 In-Situ _____ MP-10 Controller Box MP-15 Controller Box _____

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{OC}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1156	4.69	54.4	1.59	1.18	9.1	228.3	25.40	~400
1159	5.0 4.91	57.2	1.56	1.28	9.2	188.2	26.00	~400
1202	4.61	59.4	1.51	2.75	9.2	170.6	26.33	~400
1205	4.56	59.9	1.44	3.38	9.2	180.3	26.90	~400
1208	4.53	60.2	1.46	3.70	9.2	188.1	27.45	~400
1211	4.51	60.3	1.48	3.91	9.2	194.9	28.08	~400
1214	4.50	60.4	1.50	4.02	9.2	199.9	28.50	~400
1217	4.49	60.5	1.94	4.08	9.2	204.3	28.73	~400
1220	4.49	60.3	1.49	4.10	9.2	208.6	28.87	~400
1225	—	S	A	M	P	L	E	—
1253	4.46	61.1	1.55	3.88	9.2	239.3	29.15	~400

Purge Cycle (End): 23/7 seconds @ 30 psi Flow Rate (ml/min End): ~400
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 58.50 (0.006) = ~0.35
 Total Purge Volume (Gallons): ~4.5 Purge Water Management: 0.4.5 on-site
 Purge Observations (color, odor, turbidity, sheen): Clear grab sample
 Purge time: 1146

Sample Time: 1225 Field Filtered (0.45um): Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS) Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl], Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
 Variance (Diss [Be, Cd, Cr, Pb, Ni]) LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Ti, Rad 226-228) Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228) Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems: _____
Sample ID: 041823NMW10
 Sampler Signature: [Signature] Date: 04/18/23 Page 1 of 1
 QA/QC Signature: [Signature] Date: 4/27/23



MICROPURGE SAMPLING LOG

Date: 04/18/2023

Weather: Sunny 50's Windy

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
Event: 1SA23 NPDES, Phase A CCR Sampler(s): C. Magee
Well ID: MW-5 Field Calibration Completed: 04/18/23 @ 0820
Well Diameter: 2 x 4.0 inches Initial Depth to Water: 36.35 feet
Depth to Bottom: feet Water Column Thickness: feet
Equipment Used: [x] WL Indicator [] Turbidity Meter [] Air Tank [x] Dedicated Bladder Pump
[] YSI pro 05318H100510 [] Peristaltic Pump [] Compressor [] Non-dedicated BP
[] In-Situ [] MP-10 Controller Box [x] MP-15 Controller Box []

Table with 9 columns: Time (5 minute int.), pH (S.U.), Sp. Cond. (uS/cm)°C, Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), ORP (mV), DTW (feet), Flow Rate (mL/min). Rows include stabilization data and multiple sampling points from 1318 to 1405.

Purge Cycle (End): 26/4 seconds @ ~35 psi Flow Rate (ml/min End): ~400
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube): Vol=Depth to Pump x 0.006 gal/ft: ~0.31
Total Purge Volume (Gallons): ~2.5 Purge Water Management: On-site O.W.S.
Purge Observations (color, odor, turbidity, sheen): Clear grab sample
Purge time: 1313

Sample Time: 1340 Field Filtered (0.45um): [x] Yes [] No
Sample Parameters/Analyte(s): [] Petro (DRO) [] CCR Appendix III [] CCR Appendix IV
[] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], [x] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Ti], Cl, SO4, TDS, TSS) Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
[] Variance (Diss [Be, Cd, Cr, [] LVWSP IV Detects (As, Ba, Be, Cd, [x] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Ni]) Cr, Co, Pb, Mo, Ti, Rad 226-228) Pb, Li, Se, Rad 226-228) Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 041823NMW5
Sampler Signature: [Signature] Date: 04/18/23 Page 1 of 1
QA/QC Signature: [Signature] Date: 04/21/23



MICROPURGE SAMPLING LOG

Date: 04/18/2023

Weather: sunny/windy, 50S

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
Event: 1SA23 Phase A+B CCR + NPDES Sampler(s): M. Knez
Well ID: MW-8 Field Calibration Completed: 04/18/23 @ 0820
Well Diameter: 2.0 inches Initial Depth to Water: 30.20 feet
Depth to Bottom: feet Water Column Thickness: feet
Equipment Used: [checked] WL Indicator [] Turbidity Meter [] Air Tank [checked] Dedicated Bladder Pump
[checked] YSI ProDSS16 E100 B2 [] Peristaltic Pump [] Compressor [] Non-dedicated BP
[] In-Situ [] MP-10 Controller Box [checked] MP-15 Controller Box []

Table with 9 columns: Time (5 minute int.), pH (S.U.), Sp. Cond. (uS/cm)°C, Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), ORP (mV), DTW (feet), Flow Rate (mL/min). Rows include stabilization and data points from 1506 to 1550.

Purge Cycle (End): 24/6 seconds @ 30 psi Flow Rate (ml/min End): ~300
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): ~0.35
Total Purge Volume (Gallons): ~3.25 Purge Water Management: O.W.S. disposal
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge time: 1500

Sample Time: 1530 Field Filtered (0.45um): [checked] Yes [] No
Sample Parameters/Analyte(s): [] Petro (DRO) [checked] CCR Appendix III [checked] CCR Appendix IV
[] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO4, TDS, TSS) [checked] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Ti], Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
[] Variance (Diss [Be, Cd, Cr, Pb, Ni]) [] LVWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Ti, Rad 226-228) [checked] Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228) [checked] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)

Other Observations / Equipment Operation Problems: DTP: 58.59'
Sample ID: 041823NMWB

Sampler Signature: M. Knez Date: 4/18/23 Page 1 of 1
QA/QC Signature: Date: 4/21/23



MICROPURGE SAMPLING LOG

Date: 04/18/2023

Weather: Sunny 50's Windy

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
 Event: 1SA23 A+B NPDES / Phase A CCR Sampler(s): C-Megac
 Well ID: MWFGDW6 Field Calibration Completed: 04/18/23 @ 0820
 Well Diameter: 2.0 inches Initial Depth to Water: 17.94 feet
 Depth to Bottom: _____ feet Water Column Thickness: _____ feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI 9000SS18K100510 Peristaltic Pump Compressor Non-dedicated BP
 In-Situ _____ MP-10 Controller Box MP-15 Controller Box _____

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{90C}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1637	6.34	372.0	9.65	1.47	9.8	190.3	19.70	~400
1640	6.13	154.4	4.33	2.64	9.3	196.5	19.80	~400
1643	5.72	102.2	7.91	3.32	9.1	210.1	19.80	~400
1646	5.56	95.8	26.19	3.60	9.1	214.6	20.20	~400
1649	5.55	96.9	8.30	3.65	9.1	213.5	19.90	~400
1652	5.56	97.9	7.03	3.66	9.1	211.9	19.90	~400
1655	_____	S	A	M	P	L	E	_____
1715	5.64	108.1	4.52	3.63	9.1	202.5	19.90	~400

Purge Cycle (End): 25/5 seconds @ 25 psi Flow Rate (ml/min End): ~400
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 35.34(0.006) = ~0.21
 Total Purge Volume (Gallons): ~1.5 Purge Water Management: D.H.S. On-site
 Purge Observations (color, odor, turbidity, sheen): Clear grab sample
 Purge time: 1631

Sample Time: 1655 Field Filtered (0.45um): Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl], Cr, Cl, Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
 Variance (Diss [Be, Cd, Cr, Cr, Co, Pb, Mo, Ti, Rad 226-228]) Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Rad 226-228) Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)

Other Observations / Equipment Operation Problems: _____
Sample ID: 041823, MWFGDW6
 Sampler Signature: [Signature] Date: 04/18/23 Page 1 of 1
 QA/QC Signature: [Signature] Date: 04/21/23



MICROPURGE SAMPLING LOG

Date: 04/18/2023

Weather: Sunny 50's

Project Name: Mount Storm Power Station

Project No./Task No.: 31406066.005

Event: 1SA23 Phase A/B TDS

Sampler(s): C. McGee

Well ID: Field Blank

Field Calibration Completed: 04/12/23 @

Well Diameter: inches

Initial Depth to Water: feet

Depth to Bottom: feet

Water Column Thickness: feet

- Equipment Used: [x] WL Indicator, [] Turbidity Meter, [] Air Tank, [] Dedicated Bladder Pump, [x] YSI, [] Peristaltic Pump, [] Compressor, [] Non-dedicated BP, [] In-Situ, [] MP-10 Controller Box, [x] MP-15 Controller Box

Table with 9 columns: Time (5 minute int.), pH (S.U.), Sp. Cond. (uS/cm)°C, Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), ORP (mV), DTW (feet), Flow Rate (mL/min). Row 1: 1425, blank, S, A, M, P, L, E, blank.

Purge Cycle (End): seconds @ psi Flow Rate (ml/min End):

Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft):

Total Purge Volume (Gallons): Purge Water Management:

Purge Observations (color, odor, turbidity, sheen): Clear grab sample taken near MW-10

Purge time: w/lab provided DI water

Sample Time: 1425 Field Filtered (0.45um): [] Yes [x] No

- Sample Parameters/Analyte(s): [] Petro (DRO), [] CCR Appendix III, [] CCR Appendix IV, [] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS), [] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl], Cl, SO4, TDS, TSS), [] Variance (Diss [Be, Cd, Cr, Pb, Ni]), [x] TDS, [] LWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Ti, Rad 226-228), [] Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228), [] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)

Other Observations / Equipment Operation Problems: Sample ID: 041823FBField Blank

Sampler Signature: [Signature] Date: 04/18/23 Page 1 of 1

QA/QC Signature: M. King Date: 04/21/23



MICROPURGE SAMPLING LOG

Date: 04/18/2023

Weather: Sunny 50's

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
 Event: 1SA23 Phase A/B CLR Sampler(s): C. McGee
 Well ID: Field Blank Field Calibration Completed: 04/123 @
 Well Diameter: _____ inches Initial Depth to Water: _____ feet
 Depth to Bottom: _____ feet Water Column Thickness: _____ feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI Peristaltic Pump Compressor Non-dedicated BP
 In-Situ MP-10 Controller Box MP-15 Controller Box

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{25°C}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
<u>1420</u>	<u>---</u>	<u>S</u>	<u>A</u>	<u>M</u>	<u>P</u>	<u>L</u>	<u>E</u>	<u>---</u>

Purge Cycle (End): _____ seconds @ _____ psi Flow Rate (ml/min End): _____
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): _____
 Total Purge Volume (Gallons): _____ Purge Water Management: _____
 Purge Observations (color, odor, turbidity, sheen): Clear grab sample taken near MW-10
 Purge time: _____ w/ lab provided DI water
 Sample Time: 1420 Field Filtered (0.45um): Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], SO₄, TDS, TSS) Phase A & B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl], Cl₂, Cr Tot, NO₂+NO₃-N, SO₄, NH₃-N Tot, TDS, TSS)
 Variance (Diss [Be, Cd, Cr, Pb, Ni]) LWSP IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Mo, Tl, Rad 226-228) Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
 Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems: _____
Sample ID: 041823FBFieldBlank
 Sampler Signature: [Signature] Date: 04/18/23 Page 1 of 1
 QA/QC Signature: [Signature] Date: 04/21/23



MICROPURGE SAMPLING LOG

Date: 04/18/2023

Weather: Sunny 50's

Project Name: Mount Storm Power Station

Project No./Task No.: 31406066.005

Event: 1SA23 Phase A/B CCR

Sampler(s): C. Megee

Well ID: FD

Field Calibration Completed: 04/18/23 @ 0920

Well Diameter: inches

Initial Depth to Water: feet

Depth to Bottom: feet

Water Column Thickness: feet

- Equipment Used: [x] WL Indicator, [] Turbidity Meter, [] Air Tank, [] Dedicated Bladder Pump, [x] YSI, [] Peristaltic Pump, [] Compressor, [] Non-dedicated BP, [] In-Situ, [] MP-10 Controller Box, [x] MP-15 Controller Box

Table with 9 columns: Time (5 minute int.), pH (S.U.), Sp. Cond. (uS/cm)°C, Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), ORP (mV), DTW (feet), Flow Rate (mL/min). Row 1: 1230, S, A, M, P, L, E.

Purge Cycle (End): seconds @ psi Flow Rate (ml/min End):

Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft):

Total Purge Volume (Gallons): Purge Water Management:

Purge Observations (color, odor, turbidity, sheen): Clear grab sample taken @ MW-10

Purge time:

Sample Time: 1230 Field Filtered (0.45um): [x] Yes [] No

- Sample Parameters/Analyte(s): [] Petro (DRO) [] CCR Appendix III [] CCR Appendix IV, [] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], [] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl], Cl, SO4, TDS, TSS), [] Variance (Diss [Be, Cd, Cr, [] LWSP IV Detects (As, Ba, Be, Cd, [x] Phase A IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Ni)), [] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)

Other Observations / Equipment Operation Problems:

Sample ID: 041823FDDuplicate

Sampler Signature: [Signature] Date: 04/18/23 Page 1 of 1

QA/QC Signature: [Signature] Date: 04/18/23



MICROPURGE SAMPLING LOG

Date: 04/18/2023
Weather: Sunny 60's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 1SA23 Phase A/B TDS
Sampler(s): Comgee
Well ID: FD
Field Calibration Completed: 04/18/23 @ 0820
Well Diameter: inches
Initial Depth to Water: feet
Depth to Bottom: feet
Water Column Thickness: feet
Equipment Used: [checked] WL Indicator, [checked] YSI, [checked] In-Situ, [checked] MP-15 Controller Box

Table with 9 columns: Time (5 minute int.), pH (S.U.), Sp. Cond. (uS/cm)°C, Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), ORP (mV), DTW (feet), Flow Rate (mL/min). Row 1 contains handwritten data: 1235, S, A, M, P, L, E.

Purge Cycle (End): seconds @ psi
Flow Rate (ml/min End):
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft):
Total Purge Volume (Gallons):
Purge Water Management:
Purge Observations (color, odor, turbidity, sheen): Clear grab sample taken @ MW-10
Purge time:

Sample Time:
Field Filtered (0.45um): [checked] No
Sample Parameters/Analyte(s): [checked] TDS, [checked] Petro (DRO), [checked] CCR Appendix III, [checked] CCR Appendix IV
[] Closed 5-year NPDES (Diss [Ba, Bo, Fe, Mn], [] Phase A&B NPDES (Diss [Al, Sb, As, Ba, Be, Bo, Cd, Cu, Fe, Pb, Mn, Hg, Ni, Se, Tl], Cl, SO4, TDS, TSS)
Cr Tot, NO2+NO3 N, SO4, NH3-N Tot, TDS, TSS)
[] Variance (Diss [Be, Cd, Cr, [] LVWSP IV Detects (As, Ba, Be, Cd, [] Phase A IV Detects (As, Ba, [] Cd, Cr, Co, Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)
Pb, Ni]) Cr, Co, Pb, Mo, Tl, Rad 226-228) Pb, Li, Se, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 041823FDDuplicate

Sampler Signature: [Signature] Date: 04/18/23 Page 1 of 1
QA/QC Signature: M. Rury Date: 04/21/23



ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Hicks
Dominion Energy Services, Inc.
5000 Dominion Blvd
Glen Allen, Virginia 23060

Generated 5/1/2023 11:00:59 AM

JOB DESCRIPTION

MSPS-1SA2023-A/B TDS
SDG NUMBER Phase A/B TDS Crossover Group F

JOB NUMBER

240-183892-1

Eurofins Cleveland

Job Notes

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

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Authorization

Roxanne Cisneros

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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
QC Sample Results	14
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18
Receipt Checklists	27

Definitions/Glossary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Qualifiers

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

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

Case Narrative

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Job ID: 240-183892-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-183892-1

Receipt

The samples were received on 4/20/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.4°C, 2.5°C, 4.5°C and 5.4°C

General Chemistry

Method 2540C_Calcd: The following sample was received at the Pittsburgh lab with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 041823NMW10 (240-183892-14). Sample analysis is sent to Pittsburgh due to WV certification for TDS.

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



Method Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Method	Method Description	Protocol	Laboratory
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-183892-2	041823NMW22	Water	04/18/23 09:20	04/20/23 10:00
240-183892-3	041823NMWFGDW2	Water	04/18/23 10:30	04/20/23 10:00
240-183892-4	041823FBFIELDBLANK	Water	04/18/23 14:25	04/20/23 10:00
240-183892-5	041823FDDUPLICATE	Water	04/18/23 12:35	04/20/23 10:00
240-183892-14	041823NMW10	Water	04/18/23 12:25	04/20/23 10:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Client Sample ID: 041823NMW22

Lab Sample ID: 240-183892-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	270		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041823NMWFGDW2

Lab Sample ID: 240-183892-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	180		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041823FBFIELDBLANK

Lab Sample ID: 240-183892-4

No Detections.

Client Sample ID: 041823FDDUPLICATE

Lab Sample ID: 240-183892-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	34		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041823NMW10

Lab Sample ID: 240-183892-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	33	H	10	10	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Client Sample ID: 041823NMW22

Lab Sample ID: 240-183892-2

Date Collected: 04/18/23 09:20

Matrix: Water

Date Received: 04/20/23 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	270		10	10	mg/L			04/25/23 19:41	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Client Sample ID: 041823NMWFGDW2

Lab Sample ID: 240-183892-3

Date Collected: 04/18/23 10:30

Matrix: Water

Date Received: 04/20/23 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	180		10	10	mg/L			04/25/23 19:41	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Client Sample ID: 041823FBFIELDBLANK

Lab Sample ID: 240-183892-4

Date Collected: 04/18/23 14:25

Matrix: Water

Date Received: 04/20/23 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	<10		10	10	mg/L			04/25/23 19:41	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Client Sample ID: 041823FDDUPLICATE

Lab Sample ID: 240-183892-5

Date Collected: 04/18/23 12:35

Matrix: Water

Date Received: 04/20/23 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	34		10	10	mg/L			04/25/23 19:41	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Client Sample ID: 041823NMW10

Lab Sample ID: 240-183892-14

Date Collected: 04/18/23 12:25

Matrix: Water

Date Received: 04/20/23 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	33	H	10	10	mg/L			04/26/23 21:09	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

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

Lab Sample ID: MB 180-433362/1
Matrix: Water
Analysis Batch: 433362

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/25/23 19:41	1

Lab Sample ID: LCS 180-433362/2
Matrix: Water
Analysis Batch: 433362

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	580	572		mg/L		99	85 - 115

Lab Sample ID: 240-183892-2 DU
Matrix: Water
Analysis Batch: 433362

Client Sample ID: 041823NMW22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	270		272		mg/L		1	10

Lab Sample ID: MB 180-433502/1
Matrix: Water
Analysis Batch: 433502

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/26/23 21:09	1

Lab Sample ID: LCS 180-433502/2
Matrix: Water
Analysis Batch: 433502

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	580	564		mg/L		97	85 - 115

Lab Sample ID: 180-155407-B-1 DU
Matrix: Water
Analysis Batch: 433502

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	470		476		mg/L		0.6	10

QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

General Chemistry

Analysis Batch: 433362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183892-2	041823NMW22	Total/NA	Water	SM 2540C	
240-183892-3	041823NMWFGDW2	Total/NA	Water	SM 2540C	
240-183892-4	041823FBFIELDBLANK	Total/NA	Water	SM 2540C	
240-183892-5	041823FDDUPLICATE	Total/NA	Water	SM 2540C	
MB 180-433362/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-433362/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-183892-2 DU	041823NMW22	Total/NA	Water	SM 2540C	

Analysis Batch: 433502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183892-14	041823NMW10	Total/NA	Water	SM 2540C	
MB 180-433502/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-433502/2	Lab Control Sample	Total/NA	Water	SM 2540C	
180-155407-B-1 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Client Sample ID: 041823NMW22

Lab Sample ID: 240-183892-2

Date Collected: 04/18/23 09:20

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	433362	LWM	EET PIT	04/25/23 19:41

Client Sample ID: 041823NMWFGDW2

Lab Sample ID: 240-183892-3

Date Collected: 04/18/23 10:30

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	433362	LWM	EET PIT	04/25/23 19:41

Client Sample ID: 041823FBFIELDBLANK

Lab Sample ID: 240-183892-4

Date Collected: 04/18/23 14:25

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	433362	LWM	EET PIT	04/25/23 19:41

Client Sample ID: 041823FDDUPLICATE

Lab Sample ID: 240-183892-5

Date Collected: 04/18/23 12:35

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	433362	LWM	EET PIT	04/25/23 19:41

Client Sample ID: 041823NMW10

Lab Sample ID: 240-183892-14

Date Collected: 04/18/23 12:25

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	433502	LWM	EET PIT	04/26/23 21:09

Laboratory References:

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

Accreditation/Certification Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-1
SDG: Phase A/B TDS Crossover Group F

Laboratory: Eurofins Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	142	03-31-23 *

- 1
- 2
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- 13
- 14

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

LOCID: MSPS-1SA2023-Phase A/B/TDS-F-2-1

Eurofins Canton
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information		Lab PM Cisneros, Roxanne	Carrier Tracking No(s):	COC No 240-106420-34716.1			
Client Contact Rachel Powell - Crystal Shadle		E-Mail: roxanne.cisneros@et.eurofins.com	State of Origin: WV	Page: Page 1 of 2			
Company: WSP USA Inc		PWSID:	Job #:				
Address: 2108 W Laburnum Ave, Suite 200		Due Date Requested:	Analysis Requested				
City: Richmond		TAT Requested (days): STANDARD TAT	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - H2SO4 H - Amchlor I - Ascorbic Acid J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - Trizma Z - other (specify)				
State, Zip: VA, 23227		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Other:				
Phone: 267-978-5151		PO #: 50168481	Special Instructions/Note: All Samples Preserved on ice				
Email: rpowell@golder.com		WQ #: 2043999622	Field Filtered Sample (Yes or No)				
Project Name: Mount Storm Power Station		Project #: 24021758	Perform MS/MSD (Yes or No)				
Site: Mount Storm Power Station		SSOW#:	2540C Calcd - TDS				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=TISSUE, A=AIR)	Preservation Code:	Total Number
0418 23NMW22	04/18/23	0920	G	Water	Water		1
0418 23NMWGDW2	04/18/23	1030	G	Water	Water		3
← 23NMW5 ←				Water	Water		1
← 23NMW6 ←				Water	Water		1
0418 23NMW10				Water	Water		1
← 23NMWFGDW ←				Water	Water		1
0418 23FBField Blank	04/18/23	1425	G	Water	Water		1
0418 23FDDuplicate	04/18/23	1235	G	Water	Water		1
← 23NMW6 ←				Water	Water		1
← 23NMW7 ←				Water	Water		1
← 23NMW2R ←				Water	Water		1

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify) Level II Data Package

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Celt Date/Time: 04/19/23 @ 0800 Company: HSP
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Method of Shipment: _____

Received by: Mandy Bl Date/Time: 4-20-23 10:00 Company: ectric
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____



Ver: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative Login #: 183892
Barberton Facility

Client Crystal Shade Site Name _____ Cooler unpacked by: M. Row
Cooler Received on 4-20-23 Opened on 4-21-23
FedEx: 1st Grd. Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 22 Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC203864
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: JWP
0418 23NMW10 4/18/23 @ 1225 was included in the coolers. Logged last. ~~sent~~ 4-21-23

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Eurofins - Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
<input checked="" type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: <u>21</u>	<u>5.7</u>	<u>5.4</u>	<input checked="" type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input checked="" type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: <u>16</u>	<u>0.5</u>	<u>0.4</u>	<input checked="" type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input checked="" type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: <u>16</u>	<u>4.6</u>	<u>4.5</u>	<input checked="" type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input checked="" type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: <u>16</u>	<u>2.6</u>	<u>2.5</u>	<input checked="" type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

See Temperature Excursion Form

COCID: MSPS-15A2023-Phase A/B/TDS-F-2-1

Eurofins Canton
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information		Lab PM: Cisneros, Roxanne		Carrier Tracking No(s): 240-106420-34716.1					
Client Contact: Rachel Powell - Crystal Shadle		E-Mail: roxanne.cisneros@et.eurofins.com		Page: Page 1 of 2					
Company: WSP USA Inc		PWSID:		Job #:					
Address: 2108 W Laburnum Ave, Suite 200		Due Date Requested:		Analysis Requested					
City: Richmond		TAT Requested (days): STANDARD TAT		Preservation Codes:					
State, Zip: VA, 23227		Compliance Project: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		A - HCL N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)					
Phone: 267-978-5151		PO #: 50168481		Other:					
Email: rpowell@golder.com		WQ #: 2043999622		Add Samples Preserved on ice					
Project Name: Mount Storm Power Station		Project #: 24021758		Special Instructions/Note:					
Site: Mount Storm Power Station		SSOW#:		Virginia Beach #202					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=TISSUE, A=AIR)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C Calcd - TDS	Total Number	Special Instructions/Note:
0418 23NMW22	04/18/23	0920	G	Water		X	X	1	
0418 23NMWGDW2	04/18/23	1030	G	Water		X	X	3	
0418 23NMW6				Water				1	
0418 23NMW10				Water				1	
0418 23NMWFGDW6				Water				1	
0418 23FBField Blank	04/18/23	1425	G	Water		X	X	1	
0418 23FDDuplicate	04/18/23	1235	G	Water		X	X	1	
0418 23NMW6				Water				1	
0418 23NMW7				Water				1	
0418 23NMW12				Water				1	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input type="checkbox"/> IV, Other (specify) <u>Level II Data Package</u>									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Special Instructions/QC Requirements: Empty Kit Relinquished by: _____ Date: _____ Relinquished by: <u>Celt</u> Date/Time: <u>04/19/23 @ 0800</u> Company: <u>HSP</u> Relinquished by: _____ Date/Time: _____ Company: _____ Relinquished by: _____ Date/Time: _____ Company: _____ Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____									



Ver: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative Login #: 183892
Barberton Facility

Client Crystal Shade Site Name _____ Cooler unpacked by: M. Row
Cooler Received on 4-20-23 Opened on 4-21-23
FedEx: 1st Grd. Exp. UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 22 Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC203864
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: JWP
0418 23NMW10 4/18/23 @ 1225 was included in the coolers. Logged last. ~~sent~~ 4-21-23

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login #: 183892

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
<input checked="" type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: 21	5.7	5.4	<input checked="" type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
<input checked="" type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: 16	0.5	0.4	<input checked="" type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
<input checked="" type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: 16	4.6	4.5	<input checked="" type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
<input checked="" type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: 16	2.6	2.5	<input checked="" type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
							Water	None	

See Temperature Excursion Form

WI-NC-009 Cooler Receipt Form Page 2 - Multiple Coolers

Do not lift using this tag.



Environment Testing
TestAmerica

Part # 159470-434 MTW EXP 0224

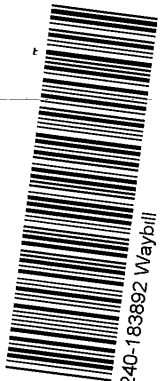
ORIGIN ID: CAKA (330) 312-0176
EUROFINS TESTAMERICA BARBERTON
180 S VAN BUREN
BARBERTON, OH 44203
UNITED STATES US

SHIP DATE: 21APR23
ACTWT: 48.00 LB
CAD: 0562065/CAFE3704

BILL THIRD PARTY

TO ENVIRONMENTAL SAMPLE RECEIPT
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
CHRIS KOVITCH
PITTSBURGH PA 15238

(412) 963-7058
INV: REF.
PO: DEPT.



240-183892 Waybill

Uncorrected temp 2.7
Thermometer ID 17

CF O.O Initials KR

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



TRK# 5676 2146 2020
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT



Eurofins Cleveland
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)

Client Contact: **Cisneros, Roxanne**
 Shipping/Receiving: **roxanne.cisneros@et.eurofins.com**
 Company: **Eurofins Environment Testing Northeast**
 Address: **301 Alpha Drive, RIDC Park, Pittsburgh PA, 15238**
 Phone: **412-963-7058(Tel) 412-963-2468(Fax)**
 Email:
 Project Name: **Mount Storm Power Station Phase A/B TDS Crossover**
 Site:

Due Date Requested: **5/3/2023**
 TAT Requested (days):
 PO #:
 WO #:
 Project #: **24021758**
 SSO#:

Carrier Tracking No(s): **240-166880.1**
 State of Origin: **West Virginia**
 Job #: **240-183892-1**

Analysis Requested:

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:

Special Instructions/Note:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=leach, A=air)	2540C_Calcd/TDS	2540C_Calcd/TDS
041823NMW7 (240-183892-1)	4/18/23	13:30 Eastern	Water	Water	X	X
041823NMW22 (240-183892-2)	4/18/23	09:20 Eastern	Water	Water	X	X
041823NMWFGDW2 (240-183892-3)	4/18/23	10:30 Eastern	Water	Water	X	X
041823FBFIELDBLANK (240-183892-4)	4/18/23	14:25 Eastern	Water	Water	X	X
041823FDDDUPLICATE (240-183892-5)	4/18/23	12:35 Eastern	Water	Water	X	X
041823NMWFGDW3 (240-183892-6)	4/18/23	15:20 Eastern	Water	Water	X	X
041823NMWFGDW4 (240-183892-7)	4/18/23	16:05 Eastern	Water	Water	X	X
041823NMWFGDW5 (240-183892-8)	4/18/23	16:40 Eastern	Water	Water	X	X
041823NMW5 (240-183892-9)	4/18/23	13:40 Eastern	Water	Water	X	X

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: **Primary Deliverable Rank: 2**

Method of Shipment:

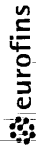
Relinquished by: M. Mansel	Received by: Roxanne Cisneros	Date/Time: 4/21-23 16:40	Date/Time: 4/22-23 0933
Relinquished by: 	Received by: 	Date/Time: 	Date/Time:
Relinquished by: 	Received by: 	Date/Time: 	Date/Time:

Custody Seals Intact:
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:

Eurofins Cleveland
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-8936 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)
 Client Contact: **Cisneros, Roxanne**
 Shipping/Receiving: **roxanne.cisneros@et.eurofins.com**
 Company: **Eurofins Environment Testing Northeast, State Program - West Virginia DEP**
 Address: **301 Alpha Drive, RIDC Park, Pitsburgh PA, 15238**
 Phone: **412-963-7058(Tel) 412-963-2468(Fax)**
 Email:
 Project #: **24021758**
 Mount Storm Power Station Phase A/B TDS Crossover
 Site:

Sampler: Lab PM **Cisneros, Roxanne**
Carrier Tracking No(s): **240-166880.2**
State of Origin: **West Virginia**
E-Mail: **roxanne.cisneros@et.eurofins.com**
Accreditations Required (See note): **State Program - West Virginia DEP**
Due Date Requested: **5/3/2023**
TAT Requested (days):
PO #:
WO #:
Project #: **24021758**
SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Other)	2540C Calcd/ TDS	Other Number of Containers	Special Instructions/Note:
041823NMW8 (240-183892-10)	4/18/23	15:30 Eastern	Water	Water	X		
041823NMFGDW6 (240-183892-11)	4/18/23	16:55 Eastern	Water	Water	X		
041823NMW13 (240-183892-12)	4/18/23	12:30 Eastern	Water	Water	X		
041823NMW14 (240-183892-13)	4/18/23	11:20 Eastern	Water	Water	X		

Possible Hazard Identification
 Return To Client Disposal By Lab Archive For Months
 Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable Rank: 2**
 Empty Kit Relinquished by: **Manahy Bos** Date: **4-21-23 16:40**
 Relinquished by: **Manahy Bos** Date/Time: **4-22-23 09:33** Company: **EPHIVE**
 Relinquished by: Date/Time: Company:
 Relinquished by: Date/Time: Company:
 Custody Seals Intact: Custody Seal No.:
 Cooler Temperature(s) °C and Other Remarks:
 Ver: 06/08/2021



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-183892-1
SDG Number: Phase A/B TDS Crossover Group F

Login Number: 183892

List Number: 2

Creator: Kovitch, Christina M

List Source: Eurofins Pittsburgh

List Creation: 04/22/23 07:34 PM

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

Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-183892-1
SDG Number: Phase A/B TDS Crossover Group F

Login Number: 183892
List Number: 3
Creator: Watson, Debbie

List Source: Eurofins Pittsburgh
List Creation: 04/25/23 07:59 PM

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



ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Hicks
Dominion Energy Services, Inc.
5000 Dominion Blvd
Glen Allen, Virginia 23060

Generated 4/27/2023 2:07:43 AM

JOB DESCRIPTION

MSPS-1SA2023-A/B TDS
SDG NUMBER Phase A/B TDS Crossover Group H

JOB NUMBER

240-183892-3

Eurofins Canton

Job Notes

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

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

Authorization

Roxanne Cisneros Generated
4/27/2023 2:07:43 AM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
roxanne.cisneros@et.eurofinsus.com
(615)301-5761



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
QC Sample Results	12
QC Association Summary	13
Lab Chronicle	14
Certification Summary	15
Chain of Custody	16
Receipt Checklists	22

Definitions/Glossary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

Glossary

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

Case Narrative

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

Job ID: 240-183892-3

Laboratory: Eurofins Canton

Narrative

Job Narrative
240-183892-3

Receipt

The samples were received on 4/20/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.4°C, 2.5°C, 4.5°C and 5.4°C

General Chemistry

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

- 1
- 2
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- 13
- 14

Method Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

Method	Method Description	Protocol	Laboratory
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET PIT

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-183892-9	041823NMW5	Water	04/18/23 13:40	04/20/23 10:00
240-183892-10	041823NMW8	Water	04/18/23 15:30	04/20/23 10:00
240-183892-11	041823NMWFGDW6	Water	04/18/23 16:55	04/20/23 10:00

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Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

Client Sample ID: 041823NMW5

Lab Sample ID: 240-183892-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	120		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041823NMW8

Lab Sample ID: 240-183892-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	110		10	10	mg/L	1		SM 2540C	Total/NA

Client Sample ID: 041823NMWFGDW6

Lab Sample ID: 240-183892-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	68		10	10	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

Client Sample ID: 041823NMW5

Lab Sample ID: 240-183892-9

Date Collected: 04/18/23 13:40

Matrix: Water

Date Received: 04/20/23 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	120		10	10	mg/L			04/24/23 17:18	1

- 1
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

Client Sample ID: 041823NMW8

Lab Sample ID: 240-183892-10

Date Collected: 04/18/23 15:30

Matrix: Water

Date Received: 04/20/23 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	110		10	10	mg/L			04/24/23 17:18	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

Client Sample ID: 041823NMWFGDW6

Lab Sample ID: 240-183892-11

Date Collected: 04/18/23 16:55

Matrix: Water

Date Received: 04/20/23 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	68		10	10	mg/L			04/24/23 17:18	1

- 1
- 2
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- 4
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- 7
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- 11
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- 13
- 14

QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
 SDG: Phase A/B TDS Crossover Group H

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

Lab Sample ID: MB 180-433233/1
Matrix: Water
Analysis Batch: 433233

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			04/24/23 17:18	1

Lab Sample ID: LCS 180-433233/2
Matrix: Water
Analysis Batch: 433233

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	580	588		mg/L		101	85 - 115

Lab Sample ID: 240-183892-A-6 DU
Matrix: Water
Analysis Batch: 433233

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	22		28.0		mg/L		NC	10

QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

General Chemistry

Analysis Batch: 433233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183892-9	041823NMW5	Total/NA	Water	SM 2540C	
240-183892-10	041823NMW8	Total/NA	Water	SM 2540C	
240-183892-11	041823NMWFGDW6	Total/NA	Water	SM 2540C	
MB 180-433233/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 180-433233/2	Lab Control Sample	Total/NA	Water	SM 2540C	
240-183892-A-6 DU	Duplicate	Total/NA	Water	SM 2540C	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

Client Sample ID: 041823NMW5

Lab Sample ID: 240-183892-9

Date Collected: 04/18/23 13:40

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	433233	LWM	EET PIT	04/24/23 17:18

Client Sample ID: 041823NMW8

Lab Sample ID: 240-183892-10

Date Collected: 04/18/23 15:30

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	433233	LWM	EET PIT	04/24/23 17:18

Client Sample ID: 041823NMWFGDW6

Lab Sample ID: 240-183892-11

Date Collected: 04/18/23 16:55

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	433233	LWM	EET PIT	04/24/23 17:18

Laboratory References:

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

Accreditation/Certification Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-A/B TDS

Job ID: 240-183892-3
SDG: Phase A/B TDS Crossover Group H

Laboratory: Eurofins Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	142	03-31-23 *

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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

Client Information
 Client Contact: *Crystal Powell*
 Address: 2108 W Laburnum Ave, Suite 200
 City: Richmond
 State, Zip: VA, 23227
 Phone: *267-478-5151*
 Email: *crystal.powell@golden.com*
 Project Name: *Crystal Shadlee NPLC*
 Mount Storm Power Station
 Site:

Due Date Requested: *STANDARD TAT*
 TAT Requested (days):
 Compliance Project: *Yes*

PO #: *50168481*
 WFO #: *20139536ZZ*
 Project #: *24021758*
 SSO#:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, AT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	2640C, Chld - TDS	Total Number of Containers	Special Instructions/Note:
<i>23NMW02</i>				Water	X	N			
<i>23NMWFGDW2</i>				Water					
<i>418 23NMW5</i>	<i>04/18/23</i>	<i>1340</i>	<i>G</i>	Water		X		<i>1</i>	
<i>418 23NMW8</i>	<i>04/18/23</i>	<i>1530</i>	<i>G</i>	Water		X		<i>1</i>	
<i>23NMW70</i>				Water					
<i>418 23NMWFGDW6</i>	<i>04/18/23</i>	<i>1655</i>	<i>G</i>	Water		X		<i>1</i>	
<i>23NMW42R</i>				Water					
<i>23NMW42R</i>				Water					
<i>23NMW42R</i>				Water					
<i>23NMW42R</i>				Water					
<i>23NMW42R</i>				Water					
<i>23NMW42R</i>				Water					
<i>23NMW42R</i>				Water					



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify) *None & II Data Package*

Empty Kit Relinquished by: *Cellh* Date: *04/18/23 @ 0800*
 Relinquished by: *Cellh* Date/Time: *04/18/23 @ 0800*
 Relinquished by: *Cellh* Date/Time:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/OC Requirements:

Received by: *M. Kneez* Date/Time: *4/20/23 10:00*
 Received by: *Crystal Powell* Date/Time:
 Received by: *Crystal Powell* Date/Time:

Cooler Temperature(s) °C and Other Remarks:

Client Crystal Shade Site Name _____ Cooler unpacked by: M. Row
 Cooler Received on 4-20-23 Opened on 4-21-23
 FedEx: 1st Grd. Exp. UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 2 Foam Box _____ Client Cooler Box _____ Other _____
 Packing material used: Bubble Wrap _____ Foam Plastic Bag None _____ Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
13. Were all preserved sample(s) at the correct pH upon receipt? MC Yes No NA pH Strip Lot# HC203064
 If yes, Questions 13-17 have been checked at the originating laboratory.
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: JMR

0418 23NMW10 4/18/23 @1225 was included in the coolers. Logged last. ~~JMR~~ 4-21-23

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____
 VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins - Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
<input checked="" type="radio"/> EC Client Box Other	IR GUN #: 21	5.7	5.4	<input checked="" type="radio"/> Wet Ice Blue Ice Dry Ice Water None
<input checked="" type="radio"/> EC Client Box Other	IR GUN #: 16	0.5	0.4	<input checked="" type="radio"/> Wet Ice Blue Ice Dry Ice Water None
<input checked="" type="radio"/> EC Client Box Other	IR GUN #: 16	4.6	4.5	<input checked="" type="radio"/> Wet Ice Blue Ice Dry Ice Water None
<input checked="" type="radio"/> EC Client Box Other	IR GUN #: 16	2.6	2.5	<input checked="" type="radio"/> Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

See Temperature Excursion Form

Do not lift using this tag.



Environment Testing
TestAmerica

Part # 159470-434 MTW EXP 0224

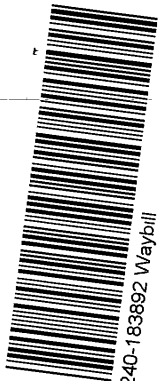
ORIGIN ID: CAKA (330) 312-0176
EUROFINS TESTAMERICA BARBERTON
180 S VAN BUREN
BARBERTON, OH 44203
UNITED STATES US

SHIP DATE: 21APR23
ACTWT: 48.00 LB
CAD: 0562065/CAFE3704

BILL THIRD PARTY

TO ENVIRONMENTAL SAMPLE RECEIPT
EUROFINS TESTAMERICA PITTSBURGH
301 ALPHA DRIVE
CHRIS KOVITCH
PITTSBURGH PA 15238

(412) 963-7058
INV: REF.
PO: DEPT.



240-183892 Waybill

Uncorrected temp 2.7
Thermometer ID 17

CF O.O Initials KR

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



TRK# 5676 2146 2020
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO AGCA

15238
PA-US PIT



Eurofins Cleveland
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)

Client Contact: **Cisneros, Roxanne**
 Shipping/Receiving: **roxanne.cisneros@et.eurofins.com**
 State of Origin: **West Virginia**
 Carrier Tracking No(s): **240-166880.1**
 Page: **Page 1 of 2**
 Job #: **240-183892-1**

Company: **Eurofins Environment Testing Northeast**
 Address: **301 Alpha Drive, RIDC Park,**
 City: **Pittsburgh**
 State, Zip: **PA, 15238**
 Phone: **412-963-7058(Tel) 412-963-2468(Fax)**
 Email:
 Project #: **24021758**
 Mount Storm Power Station Phase A/B TDS Crossover
 Site:

Due Date Requested: **5/3/2023**
 TAT Requested (days):
 PO #:
 WO #:
 Project #: **24021758**
 SSO#:

Analysis Requested:
 Preservation Codes: **A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, Other: M - Hexane, N - None, O - AsNaO2, P - Na2OAS, Q - Na2SO3, R - Na2SO4, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)**

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=leachate, AW=air)	2540C_Calcd/TDS	2540C_Calcd/TDS	Special Instructions/Note:
041823NMW7 (240-183892-1)	4/18/23	13:30 Eastern		Water	X	X	
041823NMW22 (240-183892-2)	4/18/23	09:20 Eastern		Water	X	X	
041823NMWFGDW2 (240-183892-3)	4/18/23	10:30 Eastern		Water	X	X	
041823FBFIELDBLANK (240-183892-4)	4/18/23	14:25 Eastern		Water	X	X	
041823FDDDUPLICATE (240-183892-5)	4/18/23	12:35 Eastern		Water	X	X	
041823NMWFGDW3 (240-183892-6)	4/18/23	15:20 Eastern		Water	X	X	
041823NMWFGDW4 (240-183892-7)	4/18/23	16:05 Eastern		Water	X	X	
041823NMWFGDW5 (240-183892-8)	4/18/23	16:40 Eastern		Water	X	X	
041823NMW5 (240-183892-9)	4/18/23	13:40 Eastern		Water	X	X	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification
 Return To Client Disposal By Lab Archive For _____ Months

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) **Primary Deliverable Rank: 2**

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: **M. Mansfield** Date/Time: **4/21/23 16:40** Company: **Company**

Relinquished by: _____ Date/Time: _____ Company: _____

Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No **Custody Seal No.:** _____

Received by: **Roxanne Cisneros** Date/Time: **4/22/23 09:33** Company: **Company**

Received by: _____ Date/Time: _____ Company: _____

Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: _____



Eurofins Cleveland
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-8936 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)
 Client Contact: **Cisneros, Roxanne**
 Shipping/Receiving: **roxanne.cisneros@et.eurofins.com**
 Company: **Eurofins Environment Testing Northeast**
 Address: **301 Alpha Drive, RIDC Park, Pittsburgh, PA, 15238**
 Phone: **412-963-7058(Tel) 412-963-2468(Fax)**
 Email:
 Project Name: **Mount Storm Power Station Phase A/B TDS Crossover**
 Site:

Sampler: Lab PM **Cisneros, Roxanne**
Carrier Tracking No(s): 240-166880.2
State of Origin: West Virginia
E-Mail: roxanne.cisneros@et.eurofins.com
Accreditations Required (See note): State Program - West Virginia DEP
Due Date Requested: 5/3/2023
TAT Requested (days):
PO #:
WO #:
Project #: 24021758
SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Other)	2540C Calcd/ TDS	Special Instructions/Note:
041823NMW8 (240-183892-10)	4/18/23	15:30 Eastern	Water	Water	X	
041823NMFGDW6 (240-183892-11)	4/18/23	16:55 Eastern	Water	Water	X	
041823NMW13 (240-183892-12)	4/18/23	12:30 Eastern	Water	Water	X	
041823NMW14 (240-183892-13)	4/18/23	11:20 Eastern	Water	Water	X	

Possible Hazard Identification
 Return To Client Disposal By Lab Archive For _____ Months
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: **Manohaly Bora** Date/Time: **4-22-23 16:40** Company: **etnc**
 Relinquished by: **Key** Date/Time: **4-22-23 09:33** Company: **EPH**
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks: _____
 Ver: 06/08/2021



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-183892-3
SDG Number: Phase A/B TDS Crossover Group H

Login Number: 183892

List Number: 2

Creator: Kovitch, Christina M

List Source: Eurofins Pittsburgh

List Creation: 04/22/23 07:34 PM

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



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-183892-3
SDG Number: Phase A/B TDS Crossover Group H

Login Number: 183892
List Number: 3
Creator: Watson, Debbie

List Source: Eurofins Pittsburgh
List Creation: 04/25/23 07:59 PM

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





ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Hicks
Dominion Energy Services, Inc.
5000 Dominion Blvd
Glen Allen, Virginia 23060

Generated 5/24/2023 3:31:06 PM

JOB DESCRIPTION

MSPS-1SA2023-Phase A/B CCR-K
SDG NUMBER Phase A/B CCR Group K

JOB NUMBER

240-183905-1

Eurofins Cleveland

Job Notes

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

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

Authorization

Roxanne Cisneros

Generated
5/24/2023 3:31:06 PM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
roxanne.cisneros@et.eurofinsus.com
(615)301-5761



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	10
Tracer Carrier Summary	20
QC Sample Results	21
QC Association Summary	27
Lab Chronicle	29
Certification Summary	31
Chain of Custody	32
Receipt Checklists	37

Definitions/Glossary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
SDG: Phase A/B CCR Group K

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Case Narrative

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
SDG: Phase A/B CCR Group K

Job ID: 240-183905-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-183905-1

Receipt

The samples were received on 4/20/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.4°C, 2.5°C, 4.5°C and 5.4°C

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 240-570845 recovered above the upper control limit for beryllium. The samples associated with this CCV were below the reported limit for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 041823NMW22 (240-183905-1), 041823NMWFGDW2 (240-183905-2), 041823NMW10 (240-183905-3), 041823FBFIELDBLANK (240-183905-4) and 041823FDDUPLICATE (240-183905-5).

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

General Chemistry

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

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 prep batch 160-609451: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 041823NMW22 (240-183905-1), 041823NMWFGDW2 (240-183905-2), 041823NMWFGDW2 (240-183905-2[MS]), 041823NMWFGDW2 (240-183905-2[MSD]), 041823NMW10 (240-183905-3), 041823FBFIELDBLANK (240-183905-4), 041823FDDUPLICATE (240-183905-5), (LCS 160-609451/2-A) and (MB 160-609451/1-A)

Method 9320_Ra228: Radium-228 batch 609518: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 041823NMW22 (240-183905-1), 041823NMWFGDW2 (240-183905-2), 041823NMWFGDW2 (240-183905-2[MS]), 041823NMWFGDW2 (240-183905-2[MSD]), 041823NMW10 (240-183905-3), 041823FBFIELDBLANK (240-183905-4), 041823FDDUPLICATE (240-183905-5), (LCS 160-609518/2-A) and (MB 160-609518/1-A)

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

Rad

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

Method Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
SDG: Phase A/B CCR Group K

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
9056A	Anions, Ion Chromatography	SW846	EET CLE
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
SDG: Phase A/B CCR Group K

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-183905-1	041823NMW22	Water	04/18/23 09:20	04/20/23 10:00
240-183905-2	041823NMWFGDW2	Water	04/18/23 10:30	04/20/23 10:00
240-183905-3	041823NMW10	Water	04/18/23 12:25	04/20/23 10:00
240-183905-4	041823FBFIELDBLANK	Water	04/18/23 14:20	04/20/23 10:00
240-183905-5	041823FDDUPLICATE	Water	04/18/23 12:30	04/20/23 10:00

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Detection Summary

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823NMW22

Lab Sample ID: 240-183905-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.69	J	2.0	0.57	ug/L	1		6020B	Total Recoverable
Barium	250		5.0	2.2	ug/L	1		6020B	Total Recoverable
Beryllium	0.80	J ^+	1.0	0.62	ug/L	1		6020B	Total Recoverable
Calcium	94000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.52	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	11	B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Molybdenum	1.1	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Selenium	1.1	J	5.0	0.89	ug/L	1		6020B	Total Recoverable
Thallium	0.67	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Chloride	0.76	J	1.0	0.13	mg/L	1		9056A	Total/NA
Sulfate	24		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 041823NMWFGDW2

Lab Sample ID: 240-183905-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	250		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	48000		1000	250	ug/L	1		6020B	Total Recoverable
Lithium	9.9	B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Selenium	0.90	J	5.0	0.89	ug/L	1		6020B	Total Recoverable
Thallium	0.36	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Chloride	0.42	J	1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.038	J	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	44		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 041823NMW10

Lab Sample ID: 240-183905-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	150		5.0	2.2	ug/L	1		6020B	Total Recoverable
Beryllium	0.97	J ^+	1.0	0.62	ug/L	1		6020B	Total Recoverable
Cadmium	0.40	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Calcium	4800		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.23	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	4.1	J B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	0.49	J	1.0	0.13	mg/L	1		9056A	Total/NA
Sulfate	13		1.0	0.35	mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823FBFIELDBLANK

Lab Sample ID: 240-183905-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	2.9	J B	8.0	1.7	ug/L	1		6020B	Total Recoverable

Client Sample ID: 041823FDDUPLICATE

Lab Sample ID: 240-183905-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	150		5.0	2.2	ug/L	1		6020B	Total Recoverable
Beryllium	0.69	J ^+	1.0	0.62	ug/L	1		6020B	Total Recoverable
Cadmium	0.38	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Calcium	4700		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.20	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	4.0	J B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	0.49	J	1.0	0.13	mg/L	1		9056A	Total/NA
Sulfate	13		1.0	0.35	mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823NMW22

Lab Sample ID: 240-183905-1

Date Collected: 04/18/23 09:20

Matrix: Water

Date Received: 04/20/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/27/23 17:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.69	J	2.0	0.57	ug/L		04/24/23 14:00	04/25/23 19:01	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 19:01	1
Barium	250		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 19:01	1
Beryllium	0.80	J ^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 19:01	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:01	1
Calcium	94000		1000	250	ug/L		04/24/23 14:00	04/25/23 19:01	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 19:01	1
Cobalt	0.52	J	1.0	0.19	ug/L		04/24/23 14:00	04/25/23 19:01	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 19:01	1
Lithium	11	B	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 19:01	1
Molybdenum	1.1	J	5.0	1.1	ug/L		04/24/23 14:00	04/25/23 19:01	1
Selenium	1.1	J	5.0	0.89	ug/L		04/24/23 14:00	04/25/23 19:01	1
Thallium	0.67	J	1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:01	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 10:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	0.76	J	1.0	0.13	mg/L			05/14/23 22:45	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			05/14/23 22:45	1
Sulfate (SW846 9056A)	24		1.0	0.35	mg/L			05/14/23 22:45	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0622	U	0.0750	0.0752	1.00	0.123	pCi/L	05/01/23 12:45	05/23/23 16:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		30 - 110					05/01/23 12:45	05/23/23 16:28	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0405	U	0.270	0.270	1.00	0.501	pCi/L	05/01/23 14:06	05/18/23 16:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.9		30 - 110					05/01/23 14:06	05/18/23 16:08	1
Y Carrier	85.2		30 - 110					05/01/23 14:06	05/18/23 16:08	1

Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823NMW22

Lab Sample ID: 240-183905-1

Date Collected: 04/18/23 09:20

Matrix: Water

Date Received: 04/20/23 10:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.103	U	0.280	0.280	5.00	0.501	pCi/L		05/24/23 14:46	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
SDG: Phase A/B CCR Group K

Client Sample ID: 041823NMWFGDW2

Lab Sample ID: 240-183905-2

Date Collected: 04/18/23 10:30

Matrix: Water

Date Received: 04/20/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/27/23 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:42	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:42	1
Barium	250		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:42	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:42	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:42	1
Calcium	48000		1000	250	ug/L		04/24/23 14:00	04/25/23 18:42	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:42	1
Cobalt	<0.19		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:42	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:42	1
Lithium	9.9	B	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:42	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:42	1
Selenium	0.90	J	5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:42	1
Thallium	0.36	J	1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:42	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	0.42	J	1.0	0.13	mg/L			05/14/23 23:07	1
Fluoride (SW846 9056A)	0.038	J	0.050	0.024	mg/L			05/14/23 23:07	1
Sulfate (SW846 9056A)	44		1.0	0.35	mg/L			05/14/23 23:07	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.109	U	0.0848	0.0854	1.00	0.122	pCi/L	05/01/23 12:45	05/23/23 16:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		30 - 110					05/01/23 12:45	05/23/23 16:28	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	0.216	U	0.265	0.266	1.00	0.438	pCi/L	05/01/23 14:06	05/18/23 16:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.6		30 - 110					05/01/23 14:06	05/18/23 16:08	1
Y Carrier	86.7		30 - 110					05/01/23 14:06	05/18/23 16:08	1

Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823NMWFGDW2

Lab Sample ID: 240-183905-2

Date Collected: 04/18/23 10:30

Matrix: Water

Date Received: 04/20/23 10:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.325	U	0.278	0.279	5.00	0.438	pCi/L		05/24/23 14:46	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823NMW10

Lab Sample ID: 240-183905-3

Date Collected: 04/18/23 12:25

Matrix: Water

Date Received: 04/20/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/27/23 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 19:03	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 19:03	1
Barium	150		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 19:03	1
Beryllium	0.97	J ^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 19:03	1
Cadmium	0.40	J	1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:03	1
Calcium	4800		1000	250	ug/L		04/24/23 14:00	04/25/23 19:03	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 19:03	1
Cobalt	0.23	J	1.0	0.19	ug/L		04/24/23 14:00	04/25/23 19:03	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 19:03	1
Lithium	4.1	J B	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 19:03	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 19:03	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 19:03	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 10:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	0.49	J	1.0	0.13	mg/L			05/15/23 00:12	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			05/15/23 00:12	1
Sulfate (SW846 9056A)	13		1.0	0.35	mg/L			05/15/23 00:12	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.198		0.108	0.110	1.00	0.127	pCi/L	05/01/23 12:45	05/23/23 16:30	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	79.3		30 - 110					05/01/23 12:45	05/23/23 16:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.328	U	0.352	0.353	1.00	0.571	pCi/L	05/01/23 14:06	05/18/23 16:08	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	79.3		30 - 110					05/01/23 14:06	05/18/23 16:08	1
<i>Y Carrier</i>	84.5		30 - 110					05/01/23 14:06	05/18/23 16:08	1

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
SDG: Phase A/B CCR Group K

Client Sample ID: 041823NMW10

Lab Sample ID: 240-183905-3

Date Collected: 04/18/23 12:25

Matrix: Water

Date Received: 04/20/23 10:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.526	U	0.368	0.370	5.00	0.571	pCi/L		05/24/23 14:46	1

Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823FBFIELDBLANK

Lab Sample ID: 240-183905-4

Date Collected: 04/18/23 14:20

Matrix: Water

Date Received: 04/20/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/27/23 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 19:06	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 19:06	1
Barium	<2.2		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 19:06	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 19:06	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:06	1
Calcium	<250		1000	250	ug/L		04/24/23 14:00	04/25/23 19:06	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 19:06	1
Cobalt	<0.19		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 19:06	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 19:06	1
Lithium	2.9	J B	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 19:06	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 19:06	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 19:06	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	<0.13		1.0	0.13	mg/L			05/15/23 00:34	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			05/15/23 00:34	1
Sulfate (SW846 9056A)	<0.35		1.0	0.35	mg/L			05/15/23 00:34	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0363	U	0.0641	0.0642	1.00	0.115	pCi/L	05/01/23 12:45	05/23/23 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		30 - 110					05/01/23 12:45	05/23/23 16:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0127	U	0.316	0.316	1.00	0.600	pCi/L	05/01/23 14:06	05/18/23 16:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.6		30 - 110					05/01/23 14:06	05/18/23 16:08	1
Y Carrier	83.0		30 - 110					05/01/23 14:06	05/18/23 16:08	1

Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823FBFIELDBLANK

Lab Sample ID: 240-183905-4

Date Collected: 04/18/23 14:20

Matrix: Water

Date Received: 04/20/23 10:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0363	U	0.322	0.322	5.00	0.600	pCi/L		05/24/23 14:46	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823FDDUPLICATE

Lab Sample ID: 240-183905-5

Date Collected: 04/18/23 12:30

Matrix: Water

Date Received: 04/20/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/27/23 17:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 19:09	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 19:09	1
Barium	150		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 19:09	1
Beryllium	0.69	J ^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 19:09	1
Cadmium	0.38	J	1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:09	1
Calcium	4700		1000	250	ug/L		04/24/23 14:00	04/25/23 19:09	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 19:09	1
Cobalt	0.20	J	1.0	0.19	ug/L		04/24/23 14:00	04/25/23 19:09	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 19:09	1
Lithium	4.0	J B	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 19:09	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 19:09	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 19:09	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	0.49	J	1.0	0.13	mg/L			05/15/23 01:39	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			05/15/23 01:39	1
Sulfate (SW846 9056A)	13		1.0	0.35	mg/L			05/15/23 01:39	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.236		0.111	0.113	1.00	0.131	pCi/L	05/01/23 12:45	05/23/23 16:30	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	95.4		30 - 110					05/01/23 12:45	05/23/23 16:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.150	U	0.266	0.266	1.00	0.458	pCi/L	05/01/23 14:06	05/18/23 16:08	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	95.4		30 - 110					05/01/23 14:06	05/18/23 16:08	1
<i>Y Carrier</i>	85.6		30 - 110					05/01/23 14:06	05/18/23 16:08	1

Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823FDDUPLICATE

Lab Sample ID: 240-183905-5

Date Collected: 04/18/23 12:30

Matrix: Water

Date Received: 04/20/23 10:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.385	U	0.288	0.289	5.00	0.458	pCi/L		05/24/23 14:46	1

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Tracer/Carrier Summary

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

			Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)		
240-183905-1	041823NMW22	84.9		
240-183905-2	041823NMWFGDW2	94.6		
240-183905-2 MS	041823NMWFGDW2	90.8		
240-183905-2 MSD	041823NMWFGDW2	94.2		
240-183905-3	041823NMW10	79.3		
240-183905-4	041823FBFIELDBLANK	77.6		
240-183905-5	041823FDDUPLICATE	95.4		
LCS 160-609451/2-A	Lab Control Sample	91.2		
MB 160-609451/1-A	Method Blank	95.4		
Tracer/Carrier Legend				
Ba = Ba Carrier				

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

				Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)		
240-183905-1	041823NMW22	84.9	85.2		
240-183905-2	041823NMWFGDW2	94.6	86.7		
240-183905-2 MS	041823NMWFGDW2	90.8	85.6		
240-183905-2 MSD	041823NMWFGDW2	94.2	84.1		
240-183905-3	041823NMW10	79.3	84.5		
240-183905-4	041823FBFIELDBLANK	77.6	83.0		
240-183905-5	041823FDDUPLICATE	95.4	85.6		
LCS 160-609518/2-A	Lab Control Sample	91.2	88.2		
MB 160-609518/1-A	Method Blank	95.4	88.6		
Tracer/Carrier Legend					
Ba = Ba Carrier					
Y = Y Carrier					

QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-570590/1-A
Matrix: Water
Analysis Batch: 571232

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/27/23 16:17	1

Lab Sample ID: LCS 240-570590/2-A
Matrix: Water
Analysis Batch: 571232

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1020		ug/L		102	80 - 120

Lab Sample ID: 240-183905-2 MS
Matrix: Water
Analysis Batch: 571232

Client Sample ID: 041823NMWFGDW2
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<57		1000	1060		ug/L		106	75 - 125

Lab Sample ID: 240-183905-2 MSD
Matrix: Water
Analysis Batch: 571232

Client Sample ID: 041823NMWFGDW2
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<57		1000	1070		ug/L		107	75 - 125	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-570590/1-A
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:37	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:37	1
Barium	<2.2		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:37	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:37	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:37	1
Calcium	<250		1000	250	ug/L		04/24/23 14:00	04/25/23 18:37	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:37	1
Cobalt	<0.19		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:37	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:37	1
Lithium	2.75	J	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:37	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:37	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:37	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:37	1

Lab Sample ID: LCS 240-570590/3-A
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	98.9		ug/L		99	80 - 120

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QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

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

Lab Sample ID: LCS 240-570590/3-A
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1000	907		ug/L		91	80 - 120
Barium	1000	930		ug/L		93	80 - 120
Beryllium	500	528	^+	ug/L		106	80 - 120
Cadmium	500	470		ug/L		94	80 - 120
Calcium	25000	22600		ug/L		90	80 - 120
Chromium	500	482		ug/L		96	80 - 120
Cobalt	500	450		ug/L		90	80 - 120
Lead	500	464		ug/L		93	80 - 120
Lithium	500	486		ug/L		97	80 - 120
Molybdenum	500	460		ug/L		92	80 - 120
Selenium	1000	916		ug/L		92	80 - 120
Thallium	1000	932		ug/L		93	80 - 120

Lab Sample ID: 240-183905-2 MS
Matrix: Water
Analysis Batch: 570845

Client Sample ID: 041823NMWFGDW2
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.57		100	103		ug/L		103	80 - 120
Arsenic	<0.75		1000	939		ug/L		94	80 - 120
Barium	250		1000	1210		ug/L		96	80 - 120
Beryllium	<0.62	^+	500	543	^+	ug/L		109	80 - 120
Cadmium	<0.20		500	479		ug/L		96	80 - 120
Calcium	48000		25000	70400		ug/L		90	80 - 120
Chromium	<1.2		500	486		ug/L		97	80 - 120
Cobalt	<0.19		500	461		ug/L		92	80 - 120
Lead	<0.45		500	474		ug/L		95	80 - 120
Lithium	9.9	B	500	507		ug/L		99	80 - 120
Molybdenum	<1.1		500	482		ug/L		96	80 - 120
Selenium	0.90	J	1000	948		ug/L		95	80 - 120
Thallium	0.36	J	1000	955		ug/L		95	80 - 120

Lab Sample ID: 240-183905-2 MSD
Matrix: Water
Analysis Batch: 570845

Client Sample ID: 041823NMWFGDW2
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.57		100	105		ug/L		105	80 - 120	2	20
Arsenic	<0.75		1000	948		ug/L		95	80 - 120	1	20
Barium	250		1000	1230		ug/L		99	80 - 120	2	20
Beryllium	<0.62	^+	500	543	^+	ug/L		109	80 - 120	0	20
Cadmium	<0.20		500	489		ug/L		98	80 - 120	2	20
Calcium	48000		25000	72000		ug/L		96	80 - 120	2	20
Chromium	<1.2		500	494		ug/L		99	80 - 120	2	20
Cobalt	<0.19		500	463		ug/L		93	80 - 120	0	20
Lead	<0.45		500	478		ug/L		96	80 - 120	1	20
Lithium	9.9	B	500	509		ug/L		100	80 - 120	0	20
Molybdenum	<1.1		500	489		ug/L		98	80 - 120	2	20
Selenium	0.90	J	1000	964		ug/L		96	80 - 120	2	20

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QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

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

Lab Sample ID: 240-183905-2 MSD
Matrix: Water
Analysis Batch: 570845

Client Sample ID: 041823NMWFGDW2
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	0.36	J	1000	970		ug/L		97	80 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-570593/1-A
Matrix: Water
Analysis Batch: 570815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 10:00	1

Lab Sample ID: LCS 240-570593/2-A
Matrix: Water
Analysis Batch: 570815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.38		ug/L		108	80 - 120

Lab Sample ID: 240-183905-2 MS
Matrix: Water
Analysis Batch: 570815

Client Sample ID: 041823NMWFGDW2
Prep Type: Total/NA
Prep Batch: 570593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.13		1.00	1.01		ug/L		101	80 - 120

Lab Sample ID: 240-183905-2 MSD
Matrix: Water
Analysis Batch: 570815

Client Sample ID: 041823NMWFGDW2
Prep Type: Total/NA
Prep Batch: 570593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.13		1.00	0.866		ug/L		87	80 - 120	15	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-573225/3
Matrix: Water
Analysis Batch: 573225

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.13		1.0	0.13	mg/L			05/14/23 16:57	1
Fluoride	<0.024		0.050	0.024	mg/L			05/14/23 16:57	1
Sulfate	<0.35		1.0	0.35	mg/L			05/14/23 16:57	1

Lab Sample ID: LCS 240-573225/4
Matrix: Water
Analysis Batch: 573225

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.9		mg/L		100	90 - 110
Fluoride	2.50	2.63		mg/L		105	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

Eurofins Cleveland

QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: 240-183905-2 MS
Matrix: Water
Analysis Batch: 573225

Client Sample ID: 041823NMWFGDW2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.42	J	50.0	54.1		mg/L		107	80 - 120
Fluoride	0.038	J	2.50	2.90		mg/L		115	80 - 120
Sulfate	44		50.0	98.2		mg/L		108	80 - 120

Lab Sample ID: 240-183905-2 MSD
Matrix: Water
Analysis Batch: 573225

Client Sample ID: 041823NMWFGDW2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	0.42	J	50.0	53.4		mg/L		106	80 - 120	1	15
Fluoride	0.038	J	2.50	2.87		mg/L		113	80 - 120	1	15
Sulfate	44		50.0	97.6		mg/L		106	80 - 120	1	15

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-609451/1-A
Matrix: Water
Analysis Batch: 612790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609451

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02458	U	0.0422	0.0423	1.00	0.111	pCi/L	05/01/23 12:45	05/23/23 16:26	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					05/01/23 12:45	05/23/23 16:26	1

Lab Sample ID: LCS 160-609451/2-A
Matrix: Water
Analysis Batch: 612790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609451

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	9.641		1.05	1.00	0.123	pCi/L	85	75 - 113
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	91.2		30 - 110						

Lab Sample ID: 240-183905-2 MS
Matrix: Water
Analysis Batch: 612790

Client Sample ID: 041823NMWFGDW2
Prep Type: Total/NA
Prep Batch: 609451

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.109	U	11.3	11.03		1.18	1.00	0.120	pCi/L	96	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	90.8		30 - 110								

QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 240-183905-2 MSD
Matrix: Water
Analysis Batch: 612790

Client Sample ID: 041823NMWFGDW2
Prep Type: Total/NA
Prep Batch: 609451

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec	RER	RER
	Result	Qual		Result	Qual								
Radium-226	0.109	U	11.3	9.857		1.07	1.00	0.106	pCi/L	86	60 - 140	0.52	1
MSD MSD													
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	94.2		30 - 110										

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-609518/1-A
Matrix: Water
Analysis Batch: 612254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609518

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.08220	U	0.235	0.235	1.00	0.466	pCi/L	05/01/23 14:06	05/18/23 16:07	1
MB MB										
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
Ba Carrier	95.4		30 - 110	05/01/23 14:06	05/18/23 16:07	1				
Y Carrier	88.6		30 - 110	05/01/23 14:06	05/18/23 16:07	1				

Lab Sample ID: LCS 160-609518/2-A
Matrix: Water
Analysis Batch: 612254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609518

Analyte	Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec
		Result	Qual						
Radium-228	8.19	7.823		1.11	1.00	0.482	pCi/L	95	75 - 125
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	91.2		30 - 110						
Y Carrier	88.2		30 - 110						

Lab Sample ID: 240-183905-2 MS
Matrix: Water
Analysis Batch: 612254

Client Sample ID: 041823NMWFGDW2
Prep Type: Total/NA
Prep Batch: 609518

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec
	Result	Qual		Result	Qual						
Radium-228	0.216	U	8.19	7.658		1.11	1.00	0.514	pCi/L	91	60 - 140
MS MS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	90.8		30 - 110								
Y Carrier	85.6		30 - 110								

QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 240-183905-2 MSD
Matrix: Water
Analysis Batch: 612254

Client Sample ID: 041823NMWFGDW2
Prep Type: Total/NA
Prep Batch: 609518

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec	RER	RER
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)					Limits		Limit
Radium-228	0.216	U	8.19	8.747		1.20	1.00	0.508	pCi/L	104	60 - 140	0.47	1

Carrier	MSD	MSD	Limits
	%Yield	Qualifier	
Ba Carrier	94.2		30 - 110
Y Carrier	84.1		30 - 110

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QC Association Summary

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Metals

Prep Batch: 570590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-1	041823NMW22	Total Recoverable	Water	3005A	
240-183905-2	041823NMWFGDW2	Total Recoverable	Water	3005A	
240-183905-3	041823NMW10	Total Recoverable	Water	3005A	
240-183905-4	041823FBFIELDBLANK	Total Recoverable	Water	3005A	
240-183905-5	041823FDDUPLICATE	Total Recoverable	Water	3005A	
MB 240-570590/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-570590/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-570590/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-183905-2 MS	041823NMWFGDW2	Total Recoverable	Water	3005A	
240-183905-2 MS	041823NMWFGDW2	Total Recoverable	Water	3005A	
240-183905-2 MSD	041823NMWFGDW2	Total Recoverable	Water	3005A	
240-183905-2 MSD	041823NMWFGDW2	Total Recoverable	Water	3005A	

Prep Batch: 570593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-1	041823NMW22	Total/NA	Water	7470A	
240-183905-2	041823NMWFGDW2	Total/NA	Water	7470A	
240-183905-3	041823NMW10	Total/NA	Water	7470A	
240-183905-4	041823FBFIELDBLANK	Total/NA	Water	7470A	
240-183905-5	041823FDDUPLICATE	Total/NA	Water	7470A	
MB 240-570593/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-570593/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-183905-2 MS	041823NMWFGDW2	Total/NA	Water	7470A	
240-183905-2 MSD	041823NMWFGDW2	Total/NA	Water	7470A	

Analysis Batch: 570815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-1	041823NMW22	Total/NA	Water	7470A	570593
240-183905-2	041823NMWFGDW2	Total/NA	Water	7470A	570593
240-183905-3	041823NMW10	Total/NA	Water	7470A	570593
240-183905-4	041823FBFIELDBLANK	Total/NA	Water	7470A	570593
240-183905-5	041823FDDUPLICATE	Total/NA	Water	7470A	570593
MB 240-570593/1-A	Method Blank	Total/NA	Water	7470A	570593
LCS 240-570593/2-A	Lab Control Sample	Total/NA	Water	7470A	570593
240-183905-2 MS	041823NMWFGDW2	Total/NA	Water	7470A	570593
240-183905-2 MSD	041823NMWFGDW2	Total/NA	Water	7470A	570593

Analysis Batch: 570845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-1	041823NMW22	Total Recoverable	Water	6020B	570590
240-183905-2	041823NMWFGDW2	Total Recoverable	Water	6020B	570590
240-183905-3	041823NMW10	Total Recoverable	Water	6020B	570590
240-183905-4	041823FBFIELDBLANK	Total Recoverable	Water	6020B	570590
240-183905-5	041823FDDUPLICATE	Total Recoverable	Water	6020B	570590
MB 240-570590/1-A	Method Blank	Total Recoverable	Water	6020B	570590
LCS 240-570590/3-A	Lab Control Sample	Total Recoverable	Water	6020B	570590
240-183905-2 MS	041823NMWFGDW2	Total Recoverable	Water	6020B	570590
240-183905-2 MSD	041823NMWFGDW2	Total Recoverable	Water	6020B	570590

QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
SDG: Phase A/B CCR Group K

Metals

Analysis Batch: 571232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-1	041823NMW22	Total Recoverable	Water	6010D	570590
240-183905-2	041823NMWFGDW2	Total Recoverable	Water	6010D	570590
240-183905-3	041823NMW10	Total Recoverable	Water	6010D	570590
240-183905-4	041823FBFIELDBLANK	Total Recoverable	Water	6010D	570590
240-183905-5	041823FDDUPLICATE	Total Recoverable	Water	6010D	570590
MB 240-570590/1-A	Method Blank	Total Recoverable	Water	6010D	570590
LCS 240-570590/2-A	Lab Control Sample	Total Recoverable	Water	6010D	570590
240-183905-2 MS	041823NMWFGDW2	Total Recoverable	Water	6010D	570590
240-183905-2 MSD	041823NMWFGDW2	Total Recoverable	Water	6010D	570590

General Chemistry

Analysis Batch: 573225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-1	041823NMW22	Total/NA	Water	9056A	
240-183905-2	041823NMWFGDW2	Total/NA	Water	9056A	
240-183905-3	041823NMW10	Total/NA	Water	9056A	
240-183905-4	041823FBFIELDBLANK	Total/NA	Water	9056A	
240-183905-5	041823FDDUPLICATE	Total/NA	Water	9056A	
MB 240-573225/3	Method Blank	Total/NA	Water	9056A	
LCS 240-573225/4	Lab Control Sample	Total/NA	Water	9056A	
240-183905-2 MS	041823NMWFGDW2	Total/NA	Water	9056A	
240-183905-2 MSD	041823NMWFGDW2	Total/NA	Water	9056A	

Rad

Prep Batch: 609451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-1	041823NMW22	Total/NA	Water	PrecSep-21	
240-183905-2	041823NMWFGDW2	Total/NA	Water	PrecSep-21	
240-183905-3	041823NMW10	Total/NA	Water	PrecSep-21	
240-183905-4	041823FBFIELDBLANK	Total/NA	Water	PrecSep-21	
240-183905-5	041823FDDUPLICATE	Total/NA	Water	PrecSep-21	
MB 160-609451/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-609451/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-183905-2 MS	041823NMWFGDW2	Total/NA	Water	PrecSep-21	
240-183905-2 MSD	041823NMWFGDW2	Total/NA	Water	PrecSep-21	

Prep Batch: 609518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-1	041823NMW22	Total/NA	Water	PrecSep_0	
240-183905-2	041823NMWFGDW2	Total/NA	Water	PrecSep_0	
240-183905-3	041823NMW10	Total/NA	Water	PrecSep_0	
240-183905-4	041823FBFIELDBLANK	Total/NA	Water	PrecSep_0	
240-183905-5	041823FDDUPLICATE	Total/NA	Water	PrecSep_0	
MB 160-609518/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-609518/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-183905-2 MS	041823NMWFGDW2	Total/NA	Water	PrecSep_0	
240-183905-2 MSD	041823NMWFGDW2	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823NMW22

Lab Sample ID: 240-183905-1

Date Collected: 04/18/23 09:20

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	571232	KLC	EET CLE	04/27/23 17:03
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 19:01
Total/NA	Prep	7470A			570593	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 10:18
Total/NA	Analysis	9056A		1	573225	JWW	EET CLE	05/14/23 22:45
Total/NA	Prep	PrecSep-21			609451	KAC	EET SL	05/01/23 12:45
Total/NA	Analysis	9315		1	612790	FLC	EET SL	05/23/23 16:28
Total/NA	Prep	PrecSep_0			609518	KAC	EET SL	05/01/23 14:06
Total/NA	Analysis	9320		1	612254	FLC	EET SL	05/18/23 16:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	613054	CAH	EET SL	05/24/23 14:46

Client Sample ID: 041823NMWFGDW2

Lab Sample ID: 240-183905-2

Date Collected: 04/18/23 10:30

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	571232	KLC	EET CLE	04/27/23 16:34
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 18:42
Total/NA	Prep	7470A			570593	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 10:04
Total/NA	Analysis	9056A		1	573225	JWW	EET CLE	05/14/23 23:07
Total/NA	Prep	PrecSep-21			609451	KAC	EET SL	05/01/23 12:45
Total/NA	Analysis	9315		1	612790	FLC	EET SL	05/23/23 16:28
Total/NA	Prep	PrecSep_0			609518	KAC	EET SL	05/01/23 14:06
Total/NA	Analysis	9320		1	612254	FLC	EET SL	05/18/23 16:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	613054	CAH	EET SL	05/24/23 14:46

Client Sample ID: 041823NMW10

Lab Sample ID: 240-183905-3

Date Collected: 04/18/23 12:25

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	571232	KLC	EET CLE	04/27/23 17:07
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 19:03
Total/NA	Prep	7470A			570593	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 10:20
Total/NA	Analysis	9056A		1	573225	JWW	EET CLE	05/15/23 00:12

Lab Chronicle

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
 SDG: Phase A/B CCR Group K

Client Sample ID: 041823NMW10

Lab Sample ID: 240-183905-3

Date Collected: 04/18/23 12:25

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			609451	KAC	EET SL	05/01/23 12:45
Total/NA	Analysis	9315		1	612790	FLC	EET SL	05/23/23 16:30
Total/NA	Prep	PrecSep_0			609518	KAC	EET SL	05/01/23 14:06
Total/NA	Analysis	9320		1	612254	FLC	EET SL	05/18/23 16:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	613054	CAH	EET SL	05/24/23 14:46

Client Sample ID: 041823FBFIELDBLANK

Lab Sample ID: 240-183905-4

Date Collected: 04/18/23 14:20

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	571232	KLC	EET CLE	04/27/23 17:11
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 19:06
Total/NA	Prep	7470A			570593	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 10:22
Total/NA	Analysis	9056A		1	573225	JWW	EET CLE	05/15/23 00:34
Total/NA	Prep	PrecSep-21			609451	KAC	EET SL	05/01/23 12:45
Total/NA	Analysis	9315		1	612790	FLC	EET SL	05/23/23 16:30
Total/NA	Prep	PrecSep_0			609518	KAC	EET SL	05/01/23 14:06
Total/NA	Analysis	9320		1	612254	FLC	EET SL	05/18/23 16:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	613054	CAH	EET SL	05/24/23 14:46

Client Sample ID: 041823FDDUPLICATE

Lab Sample ID: 240-183905-5

Date Collected: 04/18/23 12:30

Matrix: Water

Date Received: 04/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	571232	KLC	EET CLE	04/27/23 17:15
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 19:09
Total/NA	Prep	7470A			570593	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 10:24
Total/NA	Analysis	9056A		1	573225	JWW	EET CLE	05/15/23 01:39
Total/NA	Prep	PrecSep-21			609451	KAC	EET SL	05/01/23 12:45
Total/NA	Analysis	9315		1	612790	FLC	EET SL	05/23/23 16:30
Total/NA	Prep	PrecSep_0			609518	KAC	EET SL	05/01/23 14:06
Total/NA	Analysis	9320		1	612254	FLC	EET SL	05/18/23 16:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	613054	CAH	EET SL	05/24/23 14:46

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
 EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-K

Job ID: 240-183905-1
SDG: Phase A/B CCR Group K

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	210	12-31-23

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	381	10-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Ra226_Ra228 Pos		Water	Radium 226 and 228



Chain of Custody Record



Environment Testing

COC ID: MSB-15A2023-66A ~~66A~~ 2-1 MK
 -Phase 18B CA - Group K-2-1

5903 0982 4318

Client Information		Lab PM:		Sampler:		COC No.					
Client Contact: Arak C. Magee Phone: 5903 0982 4324 E-Mail: roxanne.cisneros@eurofins.com		Cisneros, Roxanne E-Mail: roxanne.cisneros@eurofins.com		Arak C. Magee Phone: 5903 0982 4324		240-106419-34715.1					
Company: WSP USA Inc Address: 2108 W Laburnum Ave, Suite 200 City: Richmond State, Zip: VA, 23227 PO #: 50168481 Email: crystalshad@wsp.com Project Name: Mount Storm Power Station Site:		PWSID: Due Date Requested: TAT Requested (days): Standard TAT Compliance Project: Δ Yes Δ No PO #: 50168481 WO #: 2013983622 MK 308 31100066.005 Project #: 24021758 SOW#:		Camer Tracking No(s): State of Origin: WV Job #:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9316, Ra226, 9320, Ra228	6010C, 6020A, 7470A	9066A, 28D - Chloride, Fluoride, Sulfate	Total Number of Containers	Special Instructions/Note:
4 18 23NMW22	4/18/23	0920	G	Water	X						All samples preserved on ice
4 18 23NMWFGDW2	4/18/23	1030	G	Water							MS/MSD taken out
4 18 23NMW5 MK				Water							MWFGD-WA
4 18 23NMW6 MK				Water							
4 18 23NMW10	4/18/23	1225	G	Water							
4 18 23NMWFGDW6 MK				Water							
4 18 23FBFieldBlank	4/18/23	1420	G	Water							Virginia Beach
4 18 23FDDuplicate	4/18/23	1230	G	Water							#200
4 23MSMetaxSpike MK				Water							
4 23MSMetaxSpikeDup MK				Water							
4 23NMW6R MK				Water							
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, (V) Other (specify) Level III data package											
Sample Disposal (A fee may be assessed if sa) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab											
Special Instructions/QC Requirements: 240-183905 Chain of Custody											
Chain of Custody: Relinquished by: Colin Date: 04/19/23 @ 0800 Company: WSP Relinquished by: Manohar Bh Date: 4-20-23 Company: Company Relinquished by: Company Date: Company Company: Company											
Custody Seal No.: Δ Yes Δ No Cooler Temperature(s) °C and Other Remarks:											



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Barberton Facility

Client Crystal Shadle

Site Name 4-21-23

Cooler unpacked by: M. Row

Cooler Received on 4-20-23

Opened on 4-21-23

FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

Eurofins Cooler # Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None

- 1. Cooler temperature upon receipt
IR GUN # (CF) °C Observed Cooler Temp. °C Corrected Cooler Temp. °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC203064
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC

Contacted PM Date by via Verbal Voice Mail Other
Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:

19. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):
VOA Sample Preservation - Date/Time VOAs Frozen:

Eurofins - Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 21	5.7	5.4	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 16	0.5	0.4	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 16	4.6	4.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 16	2.6	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

See Temperature Excursion Form

WI-NC 089 Cooler Receipt Form Page 2 Multiple Coolers



Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
0418 23NMW22	240-183905-B-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
0418 23NMW22	240-183905-C-1	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
0418 23NMW22	240-183905-D-1	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
0418 23NMWFGDW2	240-183905-D-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
0418 23NMWFGDW2	240-183905-E-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
0418 23NMWFGDW2	240-183905-F-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
0418 23NMWFGDW2	240-183905-G-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
0418 23NMWFGDW2	240-183905-H-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
0418 23NMWFGDW2	240-183905-I-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
0418 23NMWFGDW2	240-183905-J-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
0418 23NMWFGDW2	240-183905-K-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
0418 23NMWFGDW2	240-183905-L-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____

Eurofins Cleveland

180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: Cisareros, Roxanne
 Shipping/Receiving: roxanne.cisareros@et.eurofins.com
 Company: TstAmerica Laboratories, Inc.
 Address: 18715 Rider Trail North, West Virginia
 City: Earth City, MO 63045
 State, Zip: MO, 63045
 Phone: 314-298-8566(Tel) 314-298-8757(Fax)
 Email:

Lab PM: Cisareros, Roxanne
 Camer Tracking No(s): 240-166942-1
 State of Origin: West Virginia
 Page: Page 1 of 1
 Job #: 240-183905-1

Accreditations Required (See note):
 State Program - West Virginia DEP

Due Date Requested: 5/22/2023
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 24021758
 SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Seawater, Oil, B1+Phase, A+4)	Field Filtered Sample (Yes or No)	Perform MSMSD (Yes or No)	9315_Ra226/PreSep_21 Radium 226	9320_Ra228/PreSep_0 Radium 228	Ra226_228GFP_C/P/Combined Radium 226 and Radium 228	Total Number of Containers	Special Instructions/Note:
041823NMW22 (240-183905-1)	4/18/23	09:20 Eastern	Water	Water			X	X	X	2	
041823NMWFGDW2 (240-183905-2)	4/18/23	10:30 Eastern	Water	Water			X	X	X	6	
041823NMWFGDW2 (240-183905-2MS)	4/18/23	10:30 Eastern	MS	Water			X	X		1	
041823NMWFGDW2 (240-183905-2MSD)	4/18/23	10:30 Eastern	MSD	Water			X	X		1	
041823NMW10 (240-183905-3)	4/18/23	12:25 Eastern	Water	Water			X	X	X	2	
041823FBFIELDBLANK (240-183905-4)	4/18/23	14:20 Eastern	Water	Water			X	X	X	2	
041823FDDUPLICATE (240-183905-5)	4/18/23	12:30 Eastern	Water	Water			X	X	X	2	

Preservation Codes:
 A - HCL
 B - NaOH
 C - Zn Acetate
 D - Nitric Acid
 E - NaHSO4
 F - MeOH
 G - Amchlor
 H - Ascorbic Acid
 I - Ice
 J - DI Water
 K - EDTA
 L - EDA
 Other:

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 X - Trizma
 Y - EDTA
 Z - other (specify)

Analysis Requested

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify)
 Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: APR 23 10:40
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____
 Δ Yes Δ No

Received by: _____ Date/Time: _____
 Received by: Juna Weddington APR 25 5 2023 Date/Time: _____
 Received by: _____ Date/Time: _____

Company: FEDEX
 Company: EETNC
 Company: FEDEX
 Company: EETNC
 Company: EETNC

Method of Shipment: _____
 Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-183905-1
SDG Number: Phase A/B CCR Group K

Login Number: 183905

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 04/25/23 02:17 PM

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





ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Hicks
Dominion Energy Services, Inc.
5000 Dominion Blvd
Glen Allen, Virginia 23060

Generated 5/24/2023 3:41:21 PM

JOB DESCRIPTION

MSPS-1SA2023-Phase A/B CCR-L
SDG NUMBER Phase A/B CCR Group L

JOB NUMBER

240-183905-3

Eurofins Cleveland

Job Notes

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

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

Authorization

Roxanne Cisneros

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5/24/2023 3:41:21 PM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
roxanne.cisneros@et.eurofinsus.com
(615)301-5761



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Tracer Carrier Summary	15
QC Sample Results	16
QC Association Summary	22
Lab Chronicle	24
Certification Summary	26
Chain of Custody	27
Receipt Checklists	37

Definitions/Glossary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
SDG: Phase A/B CCR Group L

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Case Narrative

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
SDG: Phase A/B CCR Group L

Job ID: 240-183905-3

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-183905-3

Receipt

The samples were received on 4/20/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 0.4°C, 2.5°C, 4.5°C and 5.4°C

Metals

Method 6020B: The continuing calibration verification (CCV) associated with batch 240-570845 recovered above the upper control limit for beryllium. The samples associated with this CCV were below the reported limit for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 041823NMW5 (240-183905-8) and 041823NMW8 (240-183933-1).

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

General Chemistry

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

Gas Flow Proportional Counter

Method 9315_Ra226: Radium-226 prep batch 160-609451: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 041823NMW5 (240-183905-8), 041823NMW8 (240-183933-1), 041823NMWFGDW6 (240-183933-2), (LCS 160-609451/2-A), (MB 160-609451/1-A), (240-183905-G-2-A), (240-183905-J-2-A MS) and (240-183905-A-2-A MSD)

Method 9320_Ra228: Radium-228 batch 609518: Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. 041823NMW5 (240-183905-8), 041823NMW8 (240-183933-1), 041823NMWFGDW6 (240-183933-2), (LCS 160-609518/2-A), (MB 160-609518/1-A), (240-183905-G-2-B), (240-183905-J-2-B MS) and (240-183905-A-2-B MSD)

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

Rad

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

Method Summary

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
9056A	Anions, Ion Chromatography	SW846	EET CLE
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

- None = None
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

- EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
- EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Sample Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
SDG: Phase A/B CCR Group L

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-183905-8	041823NMW5	Water	04/18/23 13:40	04/20/23 10:00
240-183933-1	041823NMW8	Water	04/18/23 15:30	04/20/23 10:00
240-183933-2	041823NMWFGDW6	Water	04/18/23 16:55	04/20/23 10:00

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Detection Summary

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Client Sample ID: 041823NMW5

Lab Sample ID: 240-183905-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	120		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	32000		1000	250	ug/L	1		6020B	Total Recoverable
Lithium	11	B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	1.1		1.0	0.13	mg/L	1		9056A	Total/NA
Sulfate	11		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 041823NMW8

Lab Sample ID: 240-183933-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	27		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	11000		1000	250	ug/L	1		6020B	Total Recoverable
Chromium	1.4	J	5.0	1.2	ug/L	1		6020B	Total Recoverable
Cobalt	0.38	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	4.9	J B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	35		1.0	0.13	mg/L	1		9056A	Total/NA
Sulfate	18		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 041823NMWFGDW6

Lab Sample ID: 240-183933-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	130		5.0	2.2	ug/L	1		6020B	Total Recoverable
Cadmium	0.22	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Calcium	12000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.75	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	3.8	J B	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	5.2		1.0	0.13	mg/L	1		9056A	Total/NA
Sulfate	11		1.0	0.35	mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
SDG: Phase A/B CCR Group L

Client Sample ID: 041823NMW5

Lab Sample ID: 240-183905-8

Date Collected: 04/18/23 13:40

Matrix: Water

Date Received: 04/20/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/27/23 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 19:17	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 19:17	1
Barium	120		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 19:17	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 19:17	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:17	1
Calcium	32000		1000	250	ug/L		04/24/23 14:00	04/25/23 19:17	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 19:17	1
Cobalt	<0.19		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 19:17	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 19:17	1
Lithium	11	B	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 19:17	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 19:17	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 19:17	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	1.1		1.0	0.13	mg/L			05/15/23 02:44	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			05/15/23 02:44	1
Sulfate (SW846 9056A)	11		1.0	0.35	mg/L			05/15/23 02:44	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.0729	U	0.0747	0.0750	1.00	0.116	pCi/L	05/01/23 12:45	05/23/23 16:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					05/01/23 12:45	05/23/23 16:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	-0.115	U	0.251	0.251	1.00	0.511	pCi/L	05/01/23 14:06	05/18/23 16:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.5		30 - 110					05/01/23 14:06	05/18/23 16:09	1
Y Carrier	80.7		30 - 110					05/01/23 14:06	05/18/23 16:09	1

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
SDG: Phase A/B CCR Group L

Client Sample ID: 041823NMW5

Lab Sample ID: 240-183905-8

Date Collected: 04/18/23 13:40

Matrix: Water

Date Received: 04/20/23 10:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0729	U	0.262	0.262	5.00	0.511	pCi/L		05/24/23 14:46	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
SDG: Phase A/B CCR Group L

Client Sample ID: 041823NMW8

Lab Sample ID: 240-183933-1

Date Collected: 04/18/23 15:30

Matrix: Water

Date Received: 04/20/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/27/23 17:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 19:20	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 19:20	1
Barium	27		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 19:20	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 19:20	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:20	1
Calcium	11000		1000	250	ug/L		04/24/23 14:00	04/25/23 19:20	1
Chromium	1.4	J	5.0	1.2	ug/L		04/24/23 14:00	04/25/23 19:20	1
Cobalt	0.38	J	1.0	0.19	ug/L		04/24/23 14:00	04/25/23 19:20	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 19:20	1
Lithium	4.9	J B	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 19:20	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 19:20	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 19:20	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 10:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	35		1.0	0.13	mg/L			05/15/23 03:06	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			05/15/23 03:06	1
Sulfate (SW846 9056A)	18		1.0	0.35	mg/L			05/15/23 03:06	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0658	U	0.0834	0.0836	1.00	0.138	pCi/L	05/01/23 12:45	05/23/23 16:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		30 - 110					05/01/23 12:45	05/23/23 16:32	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.315	U	0.381	0.382	1.00	0.629	pCi/L	05/01/23 14:06	05/18/23 16:12	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	81.5		30 - 110					05/01/23 14:06	05/18/23 16:12	1
Y Carrier	84.1		30 - 110					05/01/23 14:06	05/18/23 16:12	1

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Client Sample ID: 041823NMW8

Lab Sample ID: 240-183933-1

Date Collected: 04/18/23 15:30

Matrix: Water

Date Received: 04/20/23 10:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.381	U	0.390	0.391	5.00	0.629	pCi/L		05/24/23 14:46	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Client Sample ID: 041823NMWFGDW6

Lab Sample ID: 240-183933-2

Date Collected: 04/18/23 16:55

Matrix: Water

Date Received: 04/20/23 10:00

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/27/23 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 19:28	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 19:28	1
Barium	130		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 19:28	1
Beryllium	<0.62		1.0	0.62	ug/L		04/24/23 14:00	04/25/23 19:28	1
Cadmium	0.22	J	1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:28	1
Calcium	12000		1000	250	ug/L		04/24/23 14:00	04/25/23 19:28	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 19:28	1
Cobalt	0.75	J	1.0	0.19	ug/L		04/24/23 14:00	04/25/23 19:28	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 19:28	1
Lithium	3.8	J B	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 19:28	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 19:28	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 19:28	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 19:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 10:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	5.2		1.0	0.13	mg/L			05/15/23 03:27	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			05/15/23 03:27	1
Sulfate (SW846 9056A)	11		1.0	0.35	mg/L			05/15/23 03:27	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.282		0.136	0.138	1.00	0.170	pCi/L	05/01/23 12:45	05/23/23 16:32	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	93.7		30 - 110					05/01/23 12:45	05/23/23 16:32	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0914	U	0.304	0.304	1.00	0.543	pCi/L	05/01/23 14:06	05/18/23 16:12	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	93.7		30 - 110					05/01/23 14:06	05/18/23 16:12	1
<i>Y Carrier</i>	82.2		30 - 110					05/01/23 14:06	05/18/23 16:12	1

Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Client Sample ID: 041823NMWFGDW6

Lab Sample ID: 240-183933-2

Date Collected: 04/18/23 16:55

Matrix: Water

Date Received: 04/20/23 10:00

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.373	U	0.333	0.334	5.00	0.543	pCi/L		05/24/23 14:46	1

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Tracer/Carrier Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
SDG: Phase A/B CCR Group L

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
240-183905-8	041823NMW5	92.5
240-183905-A-2-A MSD	Matrix Spike Duplicate	94.2
240-183905-J-2-A MS	Matrix Spike	90.8
240-183933-1	041823NMW8	81.5
240-183933-2	041823NMWFGDW6	93.7
LCS 160-609451/2-A	Lab Control Sample	91.2
MB 160-609451/1-A	Method Blank	95.4

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
240-183905-8	041823NMW5	92.5	80.7
240-183905-A-2-B MSD	Matrix Spike Duplicate	94.2	84.1
240-183905-J-2-B MS	Matrix Spike	90.8	85.6
240-183933-1	041823NMW8	81.5	84.1
240-183933-2	041823NMWFGDW6	93.7	82.2
LCS 160-609518/2-A	Lab Control Sample	91.2	88.2
MB 160-609518/1-A	Method Blank	95.4	88.6

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-570590/1-A
Matrix: Water
Analysis Batch: 571232

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		04/24/23 14:00	04/27/23 16:17	1

Lab Sample ID: LCS 240-570590/2-A
Matrix: Water
Analysis Batch: 571232

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1020		ug/L		102	80 - 120

Lab Sample ID: 240-183905-E-2-B MS
Matrix: Water
Analysis Batch: 571232

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<57		1000	1060		ug/L		106	75 - 125

Lab Sample ID: 240-183905-E-2-C MSD
Matrix: Water
Analysis Batch: 571232

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Boron	<57		1000	1070		ug/L		107	75 - 125	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-570590/1-A
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		04/24/23 14:00	04/25/23 18:37	1
Arsenic	<0.75		5.0	0.75	ug/L		04/24/23 14:00	04/25/23 18:37	1
Barium	<2.2		5.0	2.2	ug/L		04/24/23 14:00	04/25/23 18:37	1
Beryllium	<0.62	^+	1.0	0.62	ug/L		04/24/23 14:00	04/25/23 18:37	1
Cadmium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:37	1
Calcium	<250		1000	250	ug/L		04/24/23 14:00	04/25/23 18:37	1
Chromium	<1.2		5.0	1.2	ug/L		04/24/23 14:00	04/25/23 18:37	1
Cobalt	<0.19		1.0	0.19	ug/L		04/24/23 14:00	04/25/23 18:37	1
Lead	<0.45		1.0	0.45	ug/L		04/24/23 14:00	04/25/23 18:37	1
Lithium	2.75	J	8.0	1.7	ug/L		04/24/23 14:00	04/25/23 18:37	1
Molybdenum	<1.1		5.0	1.1	ug/L		04/24/23 14:00	04/25/23 18:37	1
Selenium	<0.89		5.0	0.89	ug/L		04/24/23 14:00	04/25/23 18:37	1
Thallium	<0.20		1.0	0.20	ug/L		04/24/23 14:00	04/25/23 18:37	1

Lab Sample ID: LCS 240-570590/3-A
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	98.9		ug/L		99	80 - 120

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QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

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

Lab Sample ID: LCS 240-570590/3-A
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1000	907		ug/L		91	80 - 120
Barium	1000	930		ug/L		93	80 - 120
Beryllium	500	528	^+	ug/L		106	80 - 120
Cadmium	500	470		ug/L		94	80 - 120
Calcium	25000	22600		ug/L		90	80 - 120
Chromium	500	482		ug/L		96	80 - 120
Cobalt	500	450		ug/L		90	80 - 120
Lead	500	464		ug/L		93	80 - 120
Lithium	500	486		ug/L		97	80 - 120
Molybdenum	500	460		ug/L		92	80 - 120
Selenium	1000	916		ug/L		92	80 - 120
Thallium	1000	932		ug/L		93	80 - 120

Lab Sample ID: 240-183905-E-2-D MS
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.57		100	103		ug/L		103	80 - 120
Arsenic	<0.75		1000	939		ug/L		94	80 - 120
Barium	250		1000	1210		ug/L		96	80 - 120
Beryllium	<0.62	^+	500	543	^+	ug/L		109	80 - 120
Cadmium	<0.20		500	479		ug/L		96	80 - 120
Calcium	48000		25000	70400		ug/L		90	80 - 120
Chromium	<1.2		500	486		ug/L		97	80 - 120
Cobalt	<0.19		500	461		ug/L		92	80 - 120
Lead	<0.45		500	474		ug/L		95	80 - 120
Lithium	9.9	B	500	507		ug/L		99	80 - 120
Molybdenum	<1.1		500	482		ug/L		96	80 - 120
Selenium	0.90	J	1000	948		ug/L		95	80 - 120
Thallium	0.36	J	1000	955		ug/L		95	80 - 120

Lab Sample ID: 240-183905-E-2-E MSD
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.57		100	105		ug/L		105	80 - 120	2	20
Arsenic	<0.75		1000	948		ug/L		95	80 - 120	1	20
Barium	250		1000	1230		ug/L		99	80 - 120	2	20
Beryllium	<0.62	^+	500	543	^+	ug/L		109	80 - 120	0	20
Cadmium	<0.20		500	489		ug/L		98	80 - 120	2	20
Calcium	48000		25000	72000		ug/L		96	80 - 120	2	20
Chromium	<1.2		500	494		ug/L		99	80 - 120	2	20
Cobalt	<0.19		500	463		ug/L		93	80 - 120	0	20
Lead	<0.45		500	478		ug/L		96	80 - 120	1	20
Lithium	9.9	B	500	509		ug/L		100	80 - 120	0	20
Molybdenum	<1.1		500	489		ug/L		98	80 - 120	2	20
Selenium	0.90	J	1000	964		ug/L		96	80 - 120	2	20

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QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

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

Lab Sample ID: 240-183905-E-2-E MSD
Matrix: Water
Analysis Batch: 570845

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 570590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	0.36	J	1000	970		ug/L		97	80 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-570593/1-A
Matrix: Water
Analysis Batch: 570815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		04/24/23 14:00	04/25/23 10:00	1

Lab Sample ID: LCS 240-570593/2-A
Matrix: Water
Analysis Batch: 570815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.38		ug/L		108	80 - 120

Lab Sample ID: 240-183905-E-2-G MS
Matrix: Water
Analysis Batch: 570815

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 570593

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.13		1.00	1.01		ug/L		101	80 - 120

Lab Sample ID: 240-183905-E-2-H MSD
Matrix: Water
Analysis Batch: 570815

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 570593

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.13		1.00	0.866		ug/L		87	80 - 120	15	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-573225/3
Matrix: Water
Analysis Batch: 573225

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.13		1.0	0.13	mg/L			05/14/23 16:57	1
Fluoride	<0.024		0.050	0.024	mg/L			05/14/23 16:57	1
Sulfate	<0.35		1.0	0.35	mg/L			05/14/23 16:57	1

Lab Sample ID: LCS 240-573225/4
Matrix: Water
Analysis Batch: 573225

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	49.9		mg/L		100	90 - 110
Fluoride	2.50	2.63		mg/L		105	90 - 110
Sulfate	50.0	51.3		mg/L		103	90 - 110

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QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: 240-183905-B-2 MS
Matrix: Water
Analysis Batch: 573225

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.42	J	50.0	54.1		mg/L		107	80 - 120
Fluoride	0.038	J	2.50	2.90		mg/L		115	80 - 120
Sulfate	44		50.0	98.2		mg/L		108	80 - 120

Lab Sample ID: 240-183905-B-2 MSD
Matrix: Water
Analysis Batch: 573225

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	0.42	J	50.0	53.4		mg/L		106	80 - 120	1	15
Fluoride	0.038	J	2.50	2.87		mg/L		113	80 - 120	1	15
Sulfate	44		50.0	97.6		mg/L		106	80 - 120	1	15

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-609451/1-A
Matrix: Water
Analysis Batch: 612790

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609451

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.02458	U	0.0422	0.0423	1.00	0.111	pCi/L	05/01/23 12:45	05/23/23 16:26	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.4		30 - 110					05/01/23 12:45	05/23/23 16:26	1

Lab Sample ID: LCS 160-609451/2-A
Matrix: Water
Analysis Batch: 612790

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609451

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	9.641		1.05	1.00	0.123	pCi/L	85	75 - 113
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	91.2		30 - 110						

Lab Sample ID: 240-183905-A-2-A MSD
Matrix: Water
Analysis Batch: 612790

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 609451

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.109	U	11.3	9.857		1.07	1.00	0.106	pCi/L	86	60 - 140	0.52	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	94.2		30 - 110										

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QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 240-183905-J-2-A MS
Matrix: Water
Analysis Batch: 612790

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 609451

Analyte	Sample	Sample	Spike Added	MS	MS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qual		Result	Qual						
Radium-226	0.109	U	11.3	11.03		1.18	1.00	0.120	pCi/L	96	60 - 140
MS MS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	90.8		30 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-609518/1-A
Matrix: Water
Analysis Batch: 612254

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609518

Analyte	MB	MB	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.08220	U	0.235	0.235	1.00	0.466	pCi/L	05/01/23 14:06	05/18/23 16:07	1
MB MB										
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
Ba Carrier	95.4		30 - 110	05/01/23 14:06	05/18/23 16:07	1				
Y Carrier	88.6		30 - 110	05/01/23 14:06	05/18/23 16:07	1				

Lab Sample ID: LCS 160-609518/2-A
Matrix: Water
Analysis Batch: 612254

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609518

Analyte	Spike Added	LCS	LCS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual						
Radium-228	8.19	7.823		1.11	1.00	0.482	pCi/L	95	75 - 125
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	91.2		30 - 110						
Y Carrier	88.2		30 - 110						

Lab Sample ID: 240-183905-A-2-B MSD
Matrix: Water
Analysis Batch: 612254

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 609518

Analyte	Sample	Sample	Spike Added	MSD	MSD	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
	Result	Qual		Result	Qual								
Radium-228	0.216	U	8.19	8.747		1.20	1.00	0.508	pCi/L	104	60 - 140	0.47	1
MSD MSD													
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	94.2		30 - 110										
Y Carrier	84.1		30 - 110										

QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 240-183905-J-2-B MS
Matrix: Water
Analysis Batch: 612254

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 609518

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)					
Radium-228	0.216	U	8.19	7.658		1.11	1.00	0.514	pCi/L	91	60 - 140
MS MS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	90.8		30 - 110								
Y Carrier	85.6		30 - 110								

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- 3
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- 14
- 15

QC Association Summary

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Metals

Prep Batch: 570590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-8	041823NMW5	Total Recoverable	Water	3005A	
240-183933-1	041823NMW8	Total Recoverable	Water	3005A	
240-183933-2	041823NMWFGDW6	Total Recoverable	Water	3005A	
MB 240-570590/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-570590/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-570590/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-183905-E-2-B MS	Matrix Spike	Total Recoverable	Water	3005A	
240-183905-E-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
240-183905-E-2-D MS	Matrix Spike	Total Recoverable	Water	3005A	
240-183905-E-2-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 570593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-8	041823NMW5	Total/NA	Water	7470A	
240-183933-1	041823NMW8	Total/NA	Water	7470A	
240-183933-2	041823NMWFGDW6	Total/NA	Water	7470A	
MB 240-570593/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-570593/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-183905-E-2-G MS	Matrix Spike	Total/NA	Water	7470A	
240-183905-E-2-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 570815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-8	041823NMW5	Total/NA	Water	7470A	570593
240-183933-1	041823NMW8	Total/NA	Water	7470A	570593
240-183933-2	041823NMWFGDW6	Total/NA	Water	7470A	570593
MB 240-570593/1-A	Method Blank	Total/NA	Water	7470A	570593
LCS 240-570593/2-A	Lab Control Sample	Total/NA	Water	7470A	570593
240-183905-E-2-G MS	Matrix Spike	Total/NA	Water	7470A	570593
240-183905-E-2-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	570593

Analysis Batch: 570845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-8	041823NMW5	Total Recoverable	Water	6020B	570590
240-183933-1	041823NMW8	Total Recoverable	Water	6020B	570590
240-183933-2	041823NMWFGDW6	Total Recoverable	Water	6020B	570590
MB 240-570590/1-A	Method Blank	Total Recoverable	Water	6020B	570590
LCS 240-570590/3-A	Lab Control Sample	Total Recoverable	Water	6020B	570590
240-183905-E-2-D MS	Matrix Spike	Total Recoverable	Water	6020B	570590
240-183905-E-2-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	570590

Analysis Batch: 571232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-8	041823NMW5	Total Recoverable	Water	6010D	570590
240-183933-1	041823NMW8	Total Recoverable	Water	6010D	570590
240-183933-2	041823NMWFGDW6	Total Recoverable	Water	6010D	570590
MB 240-570590/1-A	Method Blank	Total Recoverable	Water	6010D	570590
LCS 240-570590/2-A	Lab Control Sample	Total Recoverable	Water	6010D	570590
240-183905-E-2-B MS	Matrix Spike	Total Recoverable	Water	6010D	570590
240-183905-E-2-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010D	570590

QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
SDG: Phase A/B CCR Group L

General Chemistry

Analysis Batch: 573225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-8	041823NMW5	Total/NA	Water	9056A	
240-183933-1	041823NMW8	Total/NA	Water	9056A	
240-183933-2	041823NMWFGDW6	Total/NA	Water	9056A	
MB 240-573225/3	Method Blank	Total/NA	Water	9056A	
LCS 240-573225/4	Lab Control Sample	Total/NA	Water	9056A	
240-183905-B-2 MS	Matrix Spike	Total/NA	Water	9056A	
240-183905-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	

Rad

Prep Batch: 609451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-8	041823NMW5	Total/NA	Water	PrecSep-21	
240-183933-1	041823NMW8	Total/NA	Water	PrecSep-21	
240-183933-2	041823NMWFGDW6	Total/NA	Water	PrecSep-21	
MB 160-609451/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-609451/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-183905-A-2-A MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
240-183905-J-2-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	

Prep Batch: 609518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-183905-8	041823NMW5	Total/NA	Water	PrecSep_0	
240-183933-1	041823NMW8	Total/NA	Water	PrecSep_0	
240-183933-2	041823NMWFGDW6	Total/NA	Water	PrecSep_0	
MB 160-609518/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-609518/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-183905-A-2-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
240-183905-J-2-B MS	Matrix Spike	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
 SDG: Phase A/B CCR Group L

Client Sample ID: 041823NMW5
Date Collected: 04/18/23 13:40
Date Received: 04/20/23 10:00

Lab Sample ID: 240-183905-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	571232	KLC	EET CLE	04/27/23 17:28
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 19:17
Total/NA	Prep	7470A			570593	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 10:30
Total/NA	Analysis	9056A		1	573225	JWW	EET CLE	05/15/23 02:44
Total/NA	Prep	PrecSep-21			609451	KAC	EET SL	05/01/23 12:45
Total/NA	Analysis	9315		1	612790	FLC	EET SL	05/23/23 16:30
Total/NA	Prep	PrecSep_0			609518	KAC	EET SL	05/01/23 14:06
Total/NA	Analysis	9320		1	612254	FLC	EET SL	05/18/23 16:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	613054	CAH	EET SL	05/24/23 14:46

Client Sample ID: 041823NMW8
Date Collected: 04/18/23 15:30
Date Received: 04/20/23 10:00

Lab Sample ID: 240-183933-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	571232	KLC	EET CLE	04/27/23 17:37
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 19:20
Total/NA	Prep	7470A			570593	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 10:34
Total/NA	Analysis	9056A		1	573225	JWW	EET CLE	05/15/23 03:06
Total/NA	Prep	PrecSep-21			609451	KAC	EET SL	05/01/23 12:45
Total/NA	Analysis	9315		1	612792	SCB	EET SL	05/23/23 16:32
Total/NA	Prep	PrecSep_0			609518	KAC	EET SL	05/01/23 14:06
Total/NA	Analysis	9320		1	612131	FLC	EET SL	05/18/23 16:12
Total/NA	Analysis	Ra226_Ra228 Pos		1	613054	CAH	EET SL	05/24/23 14:46

Client Sample ID: 041823NMWFGDW6
Date Collected: 04/18/23 16:55
Date Received: 04/20/23 10:00

Lab Sample ID: 240-183933-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6010D		1	571232	KLC	EET CLE	04/27/23 17:49
Total Recoverable	Prep	3005A			570590	AJC	EET CLE	04/24/23 14:00
Total Recoverable	Analysis	6020B		1	570845	RKT	EET CLE	04/25/23 19:28
Total/NA	Prep	7470A			570593	AJC	EET CLE	04/24/23 14:00
Total/NA	Analysis	7470A		1	570815	MRL	EET CLE	04/25/23 10:41
Total/NA	Analysis	9056A		1	573225	JWW	EET CLE	05/15/23 03:27

Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
SDG: Phase A/B CCR Group L

Client Sample ID: 041823NMWFGDW6

Lab Sample ID: 240-183933-2

Date Collected: 04/18/23 16:55

Matrix: Water

Date Received: 04/20/23 10:00

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	PrecSep-21			609451	KAC	EET SL	05/01/23 12:45
Total/NA	Analysis	9315		1	612792	SCB	EET SL	05/23/23 16:32
Total/NA	Prep	PrecSep_0			609518	KAC	EET SL	05/01/23 14:06
Total/NA	Analysis	9320		1	612131	FLC	EET SL	05/18/23 16:12
Total/NA	Analysis	Ra226_Ra228 Pos		1	613054	CAH	EET SL	05/24/23 14:46

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-1SA2023-Phase A/B CCR-L

Job ID: 240-183905-3
SDG: Phase A/B CCR Group L

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	210	12-31-23

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	381	10-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Ra226_Ra228 Pos		Water	Radium 226 and 228



LOC ID: MSBS-15A2023-Phase A+B CCA - Group A-2-1

Chain of Custody Record



Environment Testing

Eurofins Canton
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Client Information
 Client Contact: Rachel Powell
 Company: WSP USA Inc
 Address: 2108 W Laburnum Ave, Suite 200
 City: Richmond
 State: VA, Zip: 23227
 Phone: 50168481
 Email: rachel.powell@golder.com
 Project Name: Mount Storm Power Station
 Site: 24021758

Sampler: M. Knez / C. Negee
 Lab PM: Cisneros, Roxanne
 Phone: roxanne.cisneros@eurofins.com
 E-Mail: roxanne.cisneros@eurofins.com

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewat, ST=stissue, A=air)	Preservation Code	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	9316_Ra226, 9320_Ra228	9066A_28D - Chloride, Fluoride, Sulfate	pH (SW) (Field)	Total Number of containers	Special Instructions/Note:
23NMW22				Water								- All samples preserved on ice
23NMW42	4/18/23	1340	G	Water				21	1.65B			
23NMW8	4/18/23	1530	G	Water				21	1.585			
23NMW10	4/18/23	1655	E	Water				21	1.536			
23NMW16				Water								
23NMW17				Water								
23NMW18				Water								
23NMW19				Water								
23NMW20				Water								
23NMW21				Water								
23NMW22				Water								

Sample Disposal (A fee may apply)
 Return To Client Disposal By Lab Archive For Months
 Special Instructions/QC Requirements: 240-183933 Chain of Custody

Deliverable Requested: I, II, III, IV Other (specify level) IV data package

Empty Kit Relinquished by: Cath Date: 04/19/23 Time: 0900

Relinquished by: Cath Date/Time: 04/19/23 0900 Company: WSP

Relinquished by: M. Knez / C. Negee Date/Time: 4-10-23 16:00 Company: eurofins

Relinquished by: M. Knez / C. Negee Date/Time: 4-10-23 16:00 Company: eurofins

Custody Seal No.: 240-183933 Yes No



Eurofins - Canton Sample Receipt Form/Narrative
Barberton Facility

Login #: 183933

Client Crystal Shadel Site Name 4-21-23
 Cooler Received on 4-20-23 Opened on 4-21-23
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other

Cooler unpacked by: M. Low

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 22 Foam Box Client Cooler Box Other
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC293086 HC203864
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:

 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

Did not receive 041823 NMLWS that's on COC
Received 041823 NMLW14 NOT on COC
4-18-23 @ 11:20 AM Logged last.]
Sampling date/time logged from bottles.] 4-21-23

19. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____
 VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins - Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
<input checked="" type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: <u>21</u>	<u>5.7</u>	<u>5.4</u>	Wet Ice Blue Ice Dry Ice Water None
<input checked="" type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: <u>16</u>	<u>0.5</u>	<u>0.4</u>	Wet Ice Blue Ice Dry Ice Water None
<input checked="" type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: <u>16</u>	<u>4.6</u>	<u>4.5</u>	Wet Ice Blue Ice Dry Ice Water None
<input checked="" type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: <u>16</u>	<u>2.6</u>	<u>2.5</u>	Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="radio"/> Client <input type="radio"/> Box <input type="radio"/> Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
<input type="checkbox"/> See Temperature Excursion Form				

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
041823NMW8	240-183933-A-1	Plastic 60 mL - unpreserved	_____	_____	_____	_____
041823NMW8	240-183933-B-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
041823NMW8	240-183933-C-1	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
041823NMW8	240-183933-D-1	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
041823NMWFGDW6	240-183933-A-2	Plastic 60 mL - unpreserved	_____	_____	_____	_____
041823NMWFGDW6	240-183933-B-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
041823NMWFGDW6	240-183933-C-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
041823NMWFGDW6	240-183933-D-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
041823NMW14	240-183933-A-3	Plastic 60 mL - unpreserved	_____	_____	_____	_____
041823NMW14	240-183933-B-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
041823NMW14	240-183933-C-3	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
041823NMW14	240-183933-D-3	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____

LOC ID: MSBS-15A2023-Phase A+B CCA-Group A-2-1

Chain of Custody Record



Environment Testing

Eurofins Canton
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Client Information Client Contact: Rachel Powell Company: WSP USA Inc Address: 2108 W Laburnum Ave, Suite 200 City: Richmond State, Zip: VA, 23227 Phone: 50168481 Email: rachel.powell@golder.com Project Name: Mount Storm Power Station Site:		Lab PM: Cisneros, Roxanne E-Mail: roxanne.cisneros@et.eurofins.com PWSID:	
Sampler: M. Knez / C. Poyee Phone:		Camer Tracking No(s): 5905 0982 9384 State of Origin: WV Job #:	
Due Date Requested: TAT Requested (days): Standard TAT Compliance Project: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> PO #: 50168481 WO #: 2043993622 MK 31406066.005 Project #: 24021758 SSOW#:		Analysis Requested:	
Sample Identification 23NMMWZZ 23NMMWF0BW2 MK 4 18 23NMMW5 4 18 23NMMW8 23NMMWTT MK 23NMMWF0BW0 MK 041823NONV F0DN6 23FBFieldBlank MK 23F0Duplicate MK 23NMMWMatrixSpike MK 23NMMWMatrixSpikeDup MK 23NMMW6R MK		Total Number of containers: <input checked="" type="checkbox"/> Special Instructions/Note: - All samples preserved on ice Virginia Beach #202	
Sample Date 4/18/23 4/18/23 4/18/23		Matrix Water Water Water Water Water Water Water Water Water Water	
Sample Time 1340 1530 1655		Preservation Code: Water Water Water Water Water Water Water Water Water Water	
Sample Date 4/19/23 4/19/23 4/19/23		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	
Sample Date 4/19/23 4/19/23 4/19/23		Perform M/MSD (Yes or No) <input checked="" type="checkbox"/>	
Sample Date 4/19/23 4/19/23 4/19/23		PH (SW) (field)	
Sample Date 4/19/23 4/19/23 4/19/23		9316, Ra226, 9320, Ra228 6010C, 6020A, 7470A 9066A, 28D - Chloride, Fluoride, Sulfate	
Sample Date 4/19/23 4/19/23 4/19/23		Special Instructions/Note: - All samples preserved on ice Virginia Beach #202	
Sample Disposal (A fee may apply) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:		Sample Disposal (A fee may apply) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: Cath Date/time: 04/19/23 @ 0900 Company: WSP		Relinquished by: M. Knez / C. Poyee Date/time: 4-16-23 16:00 Company: Eurofins	
Relinquished by:		Relinquished by:	
Relinquished by:		Relinquished by:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	

Eurofins - Canton Sample Receipt Form/Narrative
Barberton Facility

Login #: 183933

Client Crystal Shadel Site Name 4-21-23
Cooler Received on 4-20-23 Opened on 4-21-23
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other

Cooler unpacked by: M. Row

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 22 Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No
 - Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 - Were tamper/custody seals intact and uncompromised? Yes No NA
- 3. Shippers' packing slip attached to the cooler(s)? Yes No
- 4. Did custody papers accompany the sample(s)? Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- 7. Did all bottles arrive in good condition (Unbroken)? Yes No
- 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials? Yes No NA
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

Did not Receive 041823 NMLWS that's on COC
Received 041823 NMLW14 NOT on COC
4-18-23 @ 11:20 AM Logged last.] one
Sampling date/time logged from bottles.] 4-21-23

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins - Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 21	5.7	5.4	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 16	0.5	0.4	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 16	4.6	4.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 16	2.6	2.5	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

See Temperature Excursion Form

Temperature readings: _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
041823NMW8	240-183933-A-1	Plastic 60 mL - unpreserved	_____	_____	_____	_____
041823NMW8	240-183933-B-1	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
041823NMW8	240-183933-C-1	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
041823NMW8	240-183933-D-1	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
041823NMWFGDW6	240-183933-A-2	Plastic 60 mL - unpreserved	_____	_____	_____	_____
041823NMWFGDW6	240-183933-B-2	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
041823NMWFGDW6	240-183933-C-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
041823NMWFGDW6	240-183933-D-2	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
041823NMW14	240-183933-A-3	Plastic 60 mL - unpreserved	_____	_____	_____	_____
041823NMW14	240-183933-B-3	Plastic 500ml - with Nitric Acid	<2	_____	_____	_____
041823NMW14	240-183933-C-3	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____
041823NMW14	240-183933-D-3	Plastic 1 liter - Nitric Acid	<2	_____	_____	_____

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Cisneros, Roxanne		COC No: 240-166942-1							
Client Contact: Shipping/Receiving		E-Mail: roxanne.cisneros@et.eurofins.com		Page: Page 1 of 1							
Company: TPI/America Laboratories, Inc.		Accreditations Required (See note): State Program - West Virginia DEP		Job #: 240-183933-1							
Address: 18715 Rider Trail North,		Due Date Requested: 5/3/2023		Analysis Requested							
City: Earth City		TAT Requested (days):		Preservation Codes:							
State, Zip: MO, 63045		PO #:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)							
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:							
Project Name: Mount Storm Power Station Phase A/B CCR		Project #: 24021758		Total Number of containers							
Site:		SSOW#:		Special Instructions/Note:							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSI (Yes or No)	9315 Ra226/PreSep_21 Radium 226	9320 Ra228/PreSep_0 Radium 228	Ra226_228GFP_C/Combined Radium-226 and Radium-228		
041823NMW8 (240-183933-1)	4/18/23	15:30 Eastern	Water		X	X	X	X	X		
041823NMWFGDW6 (240-183933-2)	4/18/23	16:55 Eastern	Water		X	X	X	X	X		
<p>Possible Hazard Identification</p> <p>Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p>											
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p>Special Instructions/QC Requirements:</p>											
Relinquished by: <i>Suzanne Hawley</i>		Date/Time: 4/24/23 10:40		Company: PEINC		Received by: <i>Suzanne Woodington</i>		Date/Time: APR 25 2023		Company: <i>PEINC</i>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		Method of Shipment:		Received by:		Date/Time:	



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-183905-3
SDG Number: Phase A/B CCR Group L

Login Number: 183905

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 04/25/23 02:17 PM

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



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-183905-3
SDG Number: Phase A/B CCR Group L

Login Number: 183933

List Number: 2

Creator: Worthington, Sierra M

List Source: Eurofins St. Louis

List Creation: 04/25/23 02:17 PM

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





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

**Mt. Storm Power Station Groundwater Sampling
Samples Collected between: 4/17/2023 and 4/20/2023**

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:

2401838921

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
041823NMW10	MW-10	N	SM 2540C	Total Dissolved Solids	N	33	J	H	10	10		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	240-183892-14
Sys Sample Code	041823NMW10
Sample Name	041823NMW10
Sample Date	4/18/2023 12:25:00 PM
Location	MSPS-LFAB-MW-10 / MW-10
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	33	J	H		10	10	10	Y	Yes	1	NA

Lab Sample ID	240-183892-2
Sys Sample Code	041823NMW22
Sample Name	041823NMW22
Sample Date	4/18/2023 9:20:00 AM
Location	MSPS-BKGD-MW-22 / MW-22
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	270				10	10	10	Y	Yes	1	NA

Lab Sample ID	240-183892-3
Sys Sample Code	041823NMWFGDW2
Sample Name	041823NMWFGDW2
Sample Date	4/18/2023 10:30:00 AM
Location	MSPS-BKGD-MWFGDW2 / MWFGDW2
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	180				10	10	10	Y	Yes	1	NA

Lab Sample ID	240-183892-4
Sys Sample Code	041823FIBFIELDBLANK
Sample Name	041823FIBFIELDBLANK
Sample Date	4/18/2023 2:25:00 PM
Location	MSPS-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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L		U			10	10	10	N	Yes	1	NA

Lab Sample ID	240-183892-5
Sys Sample Code	041823FDDUPLICATE
Sample Name	041823FDDUPLICATE
Sample Date	4/18/2023 12:35:00 PM
Location	MSPS-LFAB-MW-10 / MW-10
Sample Type	FD
Matrix	GW
Parent Sample	041823NMW10

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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	34				10	10	10	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:

**Mt. Storm Power Station Groundwater Sampling
Samples Collected between: 4/17/2023 and 4/20/2023**

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2401838923

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:

Based on QA review, qualification of data was not warranted.

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	240-183892-10
Sys Sample Code	041823NMW8
Sample Name	041823NMW8
Sample Date	4/18/2023 3:30:00 PM
Location	MSPS-LFAB-MW-08 / MW-8
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	110				10	10	10	Y	Yes	1	NA

Lab Sample ID	240-183892-11
Sys Sample Code	041823NMWFGDW6
Sample Name	041823NMWFGDW6
Sample Date	4/18/2023 4:55:00 PM
Location	MSPS-LFAB-MWFGDW6 / MWFGDW6
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	68				10	10	10	Y	Yes	1	NA

Lab Sample ID	240-183892-9
Sys Sample Code	041823NMW5
Sample Name	041823NMW5
Sample Date	4/18/2023 1:40:00 PM
Location	MSPS-LFAB-MW-05 / MW-5
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	120				10	10	10	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:

**Mt. Storm Power Station Groundwater Sampling
Samples Collected between: 4/17/2023 and 4/20/2023**

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:

2401839051

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
041823NMW22	MW-22	N	SW-846 6020B	Antimony	T	0.69	J	RL	0.57	2.0		ug/L
041823NMW22	MW-22	N	SW-846 6020B	Beryllium	T	0.80	J	RL	0.62	1.0		ug/L
041823NMW22	MW-22	N	SW-846 6020B	Cobalt	T	0.52	J	RL	0.19	1.0		ug/L
041823NMW22	MW-22	N	SW-846 6020B	Lithium	T		U	BF,BL	11	11		ug/L
041823NMW22	MW-22	N	SW-846 6020B	Molybdenum	T	1.1	J	RL	1.1	5.0		ug/L
041823NMW22	MW-22	N	SW-846 6020B	Selenium	T	1.1	J	RL	0.89	5.0		ug/L
041823NMW22	MW-22	N	SW-846 6020B	Thallium	T	0.67	J	RL	0.20	1.0		ug/L
041823NMW22	MW-22	N	SW-846 9056A	Chloride	N	0.76	J	RL	0.13	1.0		mg/L
041823NMWFGDW2	MWFGDW2	N	SW-846 6020B	Lithium	T		U	BF,BL	9.9	9.9		ug/L
041823NMWFGDW2	MWFGDW2	N	SW-846 6020B	Selenium	T	0.90	J	RL	0.89	5.0		ug/L
041823NMWFGDW2	MWFGDW2	N	SW-846 6020B	Thallium	T	0.36	J	RL	0.20	1.0		ug/L
041823NMWFGDW2	MWFGDW2	N	SW-846 9056A	Chloride	N	0.42	J	RL	0.13	1.0		mg/L
041823NMWFGDW2	MWFGDW2	N	SW-846 9056A	Fluoride	N	0.038	J	RL	0.024	0.050		mg/L
041823NMW10	MW-10	N	CALC	Radium-226/228	N	0.526	J	S			0.370	pCi/L
041823NMW10	MW-10	N	SW-846 6020B	Beryllium	T	0.97	J	RL	0.62	1.0		ug/L
041823NMW10	MW-10	N	SW-846 6020B	Cadmium	T	0.40	J	RL	0.20	1.0		ug/L
041823NMW10	MW-10	N	SW-846 6020B	Cobalt	T	0.23	J	RL	0.19	1.0		ug/L
041823NMW10	MW-10	N	SW-846 6020B	Lithium	T		U	BF,BL	4.1	8.0		ug/L
041823NMW10	MW-10	N	SW-846 9056A	Chloride	N	0.49	J	RL	0.13	1.0		mg/L
041823FBFIELDBLANK_1420	Field Blank	FB	CALC	Radium-226/228	N	0.0363	U	S			0.322	pCi/L
041823FBFIELDBLANK_1420	Field Blank	FB	SW-846 6020B	Lithium	T	2.9	J	RL	1.7	8.0		ug/L
041823FDDUPLICATE_1230	MW-10	FD	CALC	Radium-226/228	N	0.385	J	S			0.289	pCi/L
041823FDDUPLICATE_1230	MW-10	FD	SW-846 6020B	Beryllium	T	0.69	J	RL	0.62	1.0		ug/L
041823FDDUPLICATE_1230	MW-10	FD	SW-846 6020B	Cadmium	T	0.38	J	RL	0.20	1.0		ug/L
041823FDDUPLICATE_1230	MW-10	FD	SW-846 6020B	Cobalt	T	0.20	J	RL	0.19	1.0		ug/L
041823FDDUPLICATE_1230	MW-10	FD	SW-846 6020B	Lithium	T		U	BF,BL	4.0	8.0		ug/L
041823FDDUPLICATE_1230	MW-10	FD	SW-846 9056A	Chloride	N	0.49	J	RL	0.13	1.0		mg/L

Data Qualifiers

U	The analyte was not detected above the level of the sample reporting limit.
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J-	The result is an estimated quantity; the result may be biased low.
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Reason Codes and Explanations	
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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	240-183905-1
Sys Sample Code	041823NMW22
Sample Name	041823NMW22
Sample Date	4/18/2023 9:20:00 AM
Location	MSPS-BKGD-MW-22 / MW-22
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	RA226/228	N	pCi/L	0.103	U		0.280				N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L	0.69	J	RL		0.57	0.57	2.0	Y	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	250				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.80	J	RL		0.62	0.62	1.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	94000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.52	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF,BL		11	11	11	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.1	J	RL		1.1	1.1	5.0	Y	Yes	1	NA
Selenium	7782-49-2	T	ug/L	1.1	J	RL		0.89	0.89	5.0	Y	Yes	1	NA	
Thallium	7440-28-0	T	ug/L	0.67	J	RL		0.20	0.20	1.0	Y	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	0.76	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	24				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.0622	U		0.0752	0.123	0.123	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.0405	U		0.270	0.501	0.501	1.00	N	Yes	1	NA

Lab Sample ID	240-183905-2
Sys Sample Code	041823NMWFGDW2
Sample Name	041823NMWFGDW2
Sample Date	4/18/2023 10:30:00 AM
Location	MSPS-BKGD-MWFGDW2 / MWFGDW2
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	RA226/228	N	pCi/L	0.325	U		0.279				N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	250				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	48000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.19	0.19	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF, BL		9.9	9.9	9.9	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L	0.90	J	RL		0.89	0.89	5.0	Y	Yes	1	NA
Thallium	7440-28-0	T	ug/L	0.36	J	RL		0.20	0.20	1.0	Y	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	0.42	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.038	J	RL		0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	44				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.109	U		0.0854	0.122	0.122	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.216	U		0.266	0.438	0.438	1.00	N	Yes	1	NA

Lab Sample ID	240-183905-3
Sys Sample Code	041823NMW10
Sample Name	041823NMW10
Sample Date	4/18/2023 12:25:00 PM
Location	MSPS-LFAB-MW-10 / MW-10
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	RA226/228	N	pCi/L	0.526	J	S	0.370				Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	150				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.97	J	RL		0.62	0.62	1.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.40	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	4800				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.23	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF,BL		4.1	4.1	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA	
Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	0.49	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	13				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.198			0.110	0.127	0.127	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.328	U		0.353	0.571	0.571	1.00	N	Yes	1	NA

Lab Sample ID	240-183905-4
Sys Sample Code	041823FBFIELDBLANK_1420
Sample Name	041823FBFieldBlank
Sample Date	4/18/2023 2:20:00 PM
Location	MSPS-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	RA226/228	N	pCi/L	0.0363	U	S	0.322				N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L		U			2.2	2.2	5.0	N	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L		U			250	250	1000	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.19	0.19	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	2.9	J	RL		1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
	Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.35	0.35	1.0	N	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.0363	U		0.0642	0.115	0.115	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	-0.0127	U		0.316	0.600	0.600	1.00	N	Yes	1	NA

Lab Sample ID	240-183905-5
Sys Sample Code	041823FDDUPLICATE_1230
Sample Name	041823FDDuplicate
Sample Date	4/18/2023 12:30:00 PM
Location	MSPS-LFAB-MW-10 / MW-10
Sample Type	FD
Matrix	GW
Parent Sample	041823NMW10

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	RA226/228	N	pCi/L	0.385	J	S	0.289				Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	150				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.69	J	RL		0.62	0.62	1.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.38	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	4700				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.20	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BF,BL		4.0	4.0	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA	
Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	0.49	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	13				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.236			0.113	0.131	0.131	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.150	U		0.266	0.458	0.458	1.00	N	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:

**Mt. Storm Power Station Groundwater Sampling
Samples Collected between: 4/17/2023 and 4/20/2023**

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:

2401839053

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
041823NMW5	MW-5	N	CALC	Radium-226/228	N	0.0729	U	S			0.262	pCi/L
041823NMW5	MW-5	N	SW-846 6020B	Lithium	T		U	BL	11	11		ug/L
041823NMW8	MW-8	N	SW-846 6020B	Chromium	T	1.4	J	RL	1.2	5.0		ug/L
041823NMW8	MW-8	N	SW-846 6020B	Cobalt	T	0.38	J	RL	0.19	1.0		ug/L
041823NMW8	MW-8	N	SW-846 6020B	Lithium	T		U	BL	4.9	8.0		ug/L
041823NMWFGDW6	MWFGDW6	N	CALC	Radium-226/228	N	0.373	J	S			0.334	pCi/L
041823NMWFGDW6	MWFGDW6	N	SW-846 6020B	Cadmium	T	0.22	J	RL	0.20	1.0		ug/L
041823NMWFGDW6	MWFGDW6	N	SW-846 6020B	Cobalt	T	0.75	J	RL	0.19	1.0		ug/L
041823NMWFGDW6	MWFGDW6	N	SW-846 6020B	Lithium	T		U	BL	3.8	8.0		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.
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	240-183905-8
Sys Sample Code	041823NMW5
Sample Name	041823NMW5
Sample Date	4/18/2023 1:40:00 PM
Location	MSPS-LFAB-MW-05 / MW-5
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	RA226/228	N	pCi/L	0.0729	U	S	0.262				N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	120				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	32000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.19	0.19	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BL		11	11	11	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA	
Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	1.1				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	11				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.0729	U		0.0750	0.116	0.116	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	-0.115	U		0.251	0.511	0.511	1.00	N	Yes	1	NA

Lab Sample ID	240-183933-1
Sys Sample Code	041823NMW8
Sample Name	041823NMW8
Sample Date	4/18/2023 3:30:00 PM
Location	MSPS-LFAB-MW-08 / MW-8
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	RA226/228	N	pCi/L	0.381	U		0.391				N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	27				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	11000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L	1.4	J	RL		1.2	1.2	5.0	Y	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.38	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BL		4.9	4.9	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA	
Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	35				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	18				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.0658	U		0.0836	0.138	0.138	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.315	U		0.382	0.629	0.629	1.00	N	Yes	1	NA

Lab Sample ID	240-183933-2
Sys Sample Code	041823NMWFGDW6
Sample Name	041823NMWFGDW6
Sample Date	4/18/2023 4:55:00 PM
Location	MSPS-LFAB-MWFGDW6 / MWFGDW6
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	RA226/228	N	pCi/L	0.373	J	S	0.334				Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	130				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.22	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	12000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.75	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U	BL		3.8	3.8	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA	
Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	5.2				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	11				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.282			0.138	0.170	0.170	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.0914	U		0.304	0.543	0.543	1.00	N	Yes	1	NA

APPENDIX B

**SECOND SEMI-ANNUAL 2023
ASSESSMENT MONITORING
PROGRAM EVENT FIELD DATA
SHEETS, LABORATORY
CERTIFICATES OF ANALYSIS,
CHAIN-OF-CUSTODY FORMS, AND
DATA VALIDATION FORMS**



Date: 10/23/23

WELL GAUGING LOG

Project Name: MSPS Phase A&B

Project No./Task No. 31406066.005

Sampler(s): C. Megee, M. Knez

Equipment: Water Level Indicator

Well ID	Personnel (initials)	Time	DTW (feet)	DTB (feet)	Well Condition Summary				
					Protective Casing	Well Casing	Label	Lock	Pad Condition
MW-22	MK	1326	20.52	63.95	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MWFGDW2	MK	1321	18.50	20.52	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-5	MK	1347	27.79 23.00	51.94	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-6R	CM	1246	61.32	74.10	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-7	CM	1343	27.54	60.27	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-8	CM	1321	27.42	63.54	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-10	MK	1339	23.08	63.37	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-12R	CM	1252	15.04	30.05	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-13	CM	1335	22.25	50.30	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MW-14	CM	1338	31.45	57.89	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MWFGDW3	CM	1301	17.17	32.10	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MWFGDW4	CM	1306	29.60	40.25	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MWFGDW5	CM	1312	8.25	34.25	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
MWFGDW6	CM	1314	19.85	40.25	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged
					<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged
					<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged
					<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Inadequate	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged

Observations/Notes: _____

Signature: M. Knez

Date: 10/27/23

QA/QC Signature: [Signature]

Date: 10/27/23

Page 1 of 1



MICROPURGE SAMPLING LOG

Date: 10/23/23

Weather: Sunny, 50°

Project Name: Mount Storm Power Station

Project No./Task No.: 31406066.005

Event: 2SA2023

Sampler(s): M. Knez

Well ID: MW-22

Field Calibration Completed: 10/23/23 @ 1355

Well Diameter: 2.0 inches

Initial Depth to Water: 20.52 feet

Depth to Bottom: 63.95 feet

Water Column Thickness: — feet

- Equipment Used:
- WL Indicator
 - Turbidity Meter
 - Air Tank
 - Dedicated Bladder Pump
 - YSI ProDSS 235104947
 - Peristaltic Pump
 - Compressor
 - Non-dedicated BP
 - In-Situ
 - MP-10 Controller Box
 - MP-15 Controller Box

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{°C}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1423	6.21	587	4.43	2.42	9.8	262.4	21.09	~300
1426	6.20	586	3.99	2.22	9.7	257.1	21.09	~300
1429	6.22	588	3.81	2.14	9.6	252.2	21.11	~300
1432	6.25	588	3.10	2.11	9.7	249.9	21.09	~300
1435	SAMPLE							
1510	6.33	587	2.08	1.98	9.5	237.3	21.30	~300

Purge Cycle (End): 2317 seconds @ 35 psi Flow Rate (ml/min End): ~300

Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 58.35(0.006) = 0.350

Total Purge Volume (Gallons): ~3.0 Purge Water Management: disposal in oil/water separator

Purge Observations (color, odor, turbidity, sheen): clear grab sample

Purge time: 1407

Sample Time: 1435 Field Filtered (0.45um): Yes No

Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV

Phase A/B NPDES Al, Be, Cu, Hg, Ni, Ti

Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS), Cr total, NO2+NO3, NH3 Tot

Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Ti, Sn, V, Zn, Hg), Cyanide, Sulfide

Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)

Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)

Other Observations / Equipment Operation Problems: _____

Sample ID: 102323NMW22

Sampler Signature: M. Knez Date: 10/23/23 Page 1 of 1

QA/QC Signature: [Signature] Date: 10/27/23



MICROPURGE SAMPLING LOG

Date: 10/23/23

Weather: Sunny, 50's

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
 Event: 2SA2023 Sampler(s): M. Knez
 Well ID: MWFGDW-2 Field Calibration Completed: 10/23/23 @ 1355
 Well Diameter: 2.0 inches Initial Depth to Water: 18.50 feet
 Depth to Bottom: 28.52 feet Water Column Thickness: _____ feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI ProDSS 238104947 Peristaltic Pump Compressor Non-dedicated BP
 In-Situ _____ MP-10 Controller Box MP-15 Controller Box _____

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{°C}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1635	6.43	353.6	3.03	5.61	11.6	80.9	18.64	~400
1638	6.40	354.6	3.01	5.65	11.6	102.5	18.68	~400
1641	6.40	355.2	3.13	5.67	11.6	113.7	18.71	~400
1644	6.40	355.7	3.71	5.71	11.7	119.0	18.58	~400
1650	SAMPLE							
1726	6.39	350.3	3.79	5.66	11.5	140.4	18.66	~400

Purge Cycle (End): 2317 seconds @ 20 psi Flow Rate (ml/min End): ~400
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 24.90 (0.006) = ~0.15
 Total Purge Volume (Gallons): ~2.5 Purge Water Management: O.W.S. disposal
 Purge Observations (color, odor, turbidity, sheen): clear grab sample
 Purge time: 1624 ms/msd taken here for Phase A & B NPDES

Sample Time: 1650 Field Filtered (0.45um): Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Phase A/B NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS), Co total, NO2+NO3, NH3 tot
 Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Ti, Sn, V, Zn, Hg), Cyanide, Sulfide Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228) Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)

Other Observations / Equipment Operation Problems: _____
 Sample ID: 102323NMWFGDW2; 102323MS Matrix Spike; 102323MSD Matrix Spike Duplicate
 Sampler Signature: M. Knez Date: 10/23/23 Page 1 of 1
 QA/QC Signature: [Signature] Date: 10/27/23



MICROPURGE SAMPLING LOG

Date: 10/24/23

Weather: sunny, 50°

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
 Event: 2SA2023 Phase A & B Sampler(s): M. Knez
 Well ID: MW-10 Field Calibration Completed: 10/24/23 @ 0750
 Well Diameter: 2.0 inches Initial Depth to Water: 24.07 feet
 Depth to Bottom: 63.37 feet Water Column Thickness: _____ feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI Pross 2380 4947 Peristaltic Pump Compressor Non-dedicated BP
 In-Situ _____ MP-10 Controller Box MP-15 Controller Box _____

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{25°C}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
0851	4.25	64.2	1.13	1.17	9.6	266.6	25.18	~400
0854	4.40	62.3	1.16	0.67	9.5	273.8	25.72	~400
0857	4.45	62.1	1.23	0.50	9.5	281.8	26.01	~400
0900	4.45	61.1	1.15	0.43	9.5	293.7	26.75	~400
0903	4.45	60.8	1.14	0.39	9.5	303.6	27.24	~400
0906	4.45	60.7	1.52	0.37	9.6	308.4	28.10	~400
0909	4.46	60.5	1.58	0.37	9.6	311.6	28.50	~400
0915	SAMPLE							
0955	4.49	59.4	2.81	0.34	9.7	333.9	38.92	~400

Purge Cycle (End): 23/7 seconds @ 40 psi Flow Rate (ml/min End): ~400
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 58.50 x 0.006 = 0.35
 Total Purge Volume (Gallons): ~4.0 Purge Water Management: D.W.S.
 Purge Observations (color, odor, turbidity, sheen): clear grab sample
 Purge time: 0845 CCR MS/MSD taken here

Sample Time: 0915 Field Filtered (0.45um) Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Phase A/B NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS), Cr total, NO3-N, NH4-N
 Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228) Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems: _____
 Sample ID: 102423NMW10; 102423MSMatrixSpike; 102423MSD MatrixSpike Dup
 Sampler Signature: M. Knez Date: 10/24/23 Page 1 of 1
 QA/QC Signature: [Signature] Date: 10/10/23



MICROPURGE SAMPLING LOG

Date: 10/24/23

Weather: sunny, 50s

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
Event: 2SA2023 Phase A+B CCR/NPDES Sampler(s): M. Kivez
Well ID: MW-5 Field Calibration Completed: 10/24/23 @ 0750
Well Diameter: 4.0 inches Initial Depth to Water: 37.80 feet
Depth to Bottom: 51.94 feet Water Column Thickness:
Equipment Used: [x] WL Indicator [] Turbidity Meter [] Air Tank [x] Dedicated Bladder Pump
[] YSI Pro 23810447 [] Peristaltic Pump [] Compressor [] Non-dedicated BP
[] In-Situ [] MP-10 Controller Box [x] MP-15 Controller Box []

Table with 9 columns: Time (5 minute int.), pH (S.U.), Sp. Cond. (uS/cm)°C, Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), ORP (mV), DTW (feet), Flow Rate (mL/min). Rows include stabilization and data points from 1043 to 1116.

Purge Cycle (End): 26/4 seconds @ 35 psi Flow Rate (ml/min End): ~400
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): ~0.31
Total Purge Volume (Gallons): ~2.5 Purge Water Management: O.W.S
Purge Observations (color, odor, turbidity, sheen): clear grab sample
Purge time: 1036

Sample Time: 1100 Field Filtered (0.45um): [x] Yes [] No
Sample Parameters/Analyte(s): [] Petro (DRO) [x] CCR Appendix III [x] CCR Appendix IV
[] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Ti, Sn, V, Zn, Hg), Cyanide, Sulfide
[] Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228)
[] Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)
[] Phase A+B CCR/NPDES (Diss [As, Ba, Bo, Cd, Cr, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS), Cr, Total, NO2+NO3, NH3 tot.

Other Observations / Equipment Operation Problems:
Sample ID: 102423NMW5
Sampler Signature: M. Kivez Date: 10/24/23 Page 1 of 1
QA/QC Signature: Date: 10/27/23



MICROPURGE SAMPLING LOG

Date: 10/24/23

Weather: Sunny, 70°S

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
 Event: 2SA2023 Phase A+B Sampler(s): M. Knez
 Well ID: MW-8 Field Calibration Completed: 10/24/23 @ 0750
 Well Diameter: 2.0 inches Initial Depth to Water: 20.67 feet
 Depth to Bottom: 63.54 feet Water Column Thickness: _____ feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI ProDSS38104947 Peristaltic Pump Compressor Non-dedicated BP
 In-Situ _____ MP-10 Controller Box MP-15 Controller Box _____

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{25°C}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1443	5.84	211.5	18.39	5.93	9.7	167.1	22.32	~380
1446	5.87	210.9	20.29	5.88	9.6	167.3	22.40	~380
1449	5.89	208.9	17.87	6.23	9.7	168.0	23.51	~380
1452	5.87	204.5	22.37	7.16	9.7	174.0	23.58	~380
1455	5.85	202.4	12.08	7.67	9.6	174.7	23.98	~380
1458	5.85	201.7	13.96	7.85	9.7	176.4	24.43	~380
1501	5.84	201.1	15.20	8.20	9.6	179.7	25.07	~380
1504	5.84	201.1	14.81	8.59	9.5	182.9	25.61	~380
1507	5.85	200.9	14.67	8.86	9.7	184.7	26.20	~380
1510	5.86	200.5	13.98	8.99	9.6	186.3	26.74	~380
1513	5.86	200.2	13.35	9.22	9.5	188.5	27.31	~380
1516	5.86	200.8	12.52	9.43	9.4	189.8	27.75	~380
1519	5.87	201.5	11.41	9.67	9.5	191.2	28.21	~380
1522	5.86	201.9	11.32	9.84	9.4	193.0	28.72	~380
1525	5.85	201.3	10.41	9.90	9.4	194.5	30.09	~380
1528	5.85	201.6	10.09	9.96	9.5	198.8	30.72	~380
1531	5.85	202.2	9.97	9.89	9.5	199.5	31.37	~380

Purge Cycle (End): 2218 seconds @ ~40 psi Flow Rate (ml/min End): ~380
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): $58.87(0.006) = 0.35$
 Total Purge Volume (Gallons): ~7.5 Purge Water Management: O.W.S.
 Purge Observations (color, odor, turbidity, sheen): clear grab sample
 Purge time: 1436

Sample Time: 1535 Field Filtered (0.45um): Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Phase I (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide Al, Be, Cu, Hg, Ni, Ti
 Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Co, Fe, Pb, Mn, Mo, Se], Chloride, SO₄, TDS, TSS) (Cr. total, NO₂+NO₃, NH₃ Tot)
 Phase A IV Detects (As, Ba, Pb, Li, Se, Rad 226-228) Cd, Cr, Co, Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems: _____
 Sample ID: 102423NMW8
 Sampler Signature: M. Knez Date: 10/24/23 Page 1 of 2
 QC Signature: [Signature] Date: 10/27/23



MICROPURGE SAMPLING LOG

Date: 10/24/23

Weather: Sunny, 70's

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
 Event: 2SA2023 Phase A+B Sampler(s): M. Knez
 Well ID: MW-8 Field Calibration Completed: 10/24/23 @ 0750
 Well Diameter: 2.0 inches Initial Depth to Water: 20.67 feet
 Depth to Bottom: 63.54 feet Water Column Thickness: — feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI 605238104947 Peristaltic Pump Compressor Non-dedicated BP
 In-Situ MP-10 Controller Box MP-15 Controller Box —

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{25°C}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
<u>1535</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>SAMPLE</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>1555</u>	<u>5.70</u>	<u>109.8</u>	<u>8.22</u>	<u>9.21</u>	<u>9.3</u>	<u>205.6</u>	<u>37.05</u>	<u>~380</u>

Purge Cycle (End): 2218 seconds @ 40 psi Flow Rate (ml/min End): ~380
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): ~0.35
 Total Purge Volume (Gallons): ~7.5 Purge Water Management: O.W.S
 Purge Observations (color, odor, turbidity, sheen): see Page 1
 Purge time: 1436

Sample Time: 1535 Field Filtered (0.45um): Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS) see page 1
 Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide Phase A IV Detects (As, Ba, Pb, Li, Se, Rad 226-228) Cd, Cr, Co, Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228)

Other Observations / Equipment Operation Problems: _____
 Sample ID: 102423NMW8
 Sampler Signature: M. Knez Date: 10/24/23 Page 2 of 2
 QA/QC Signature: [Signature] Date: 10/27/23



MICROPURGE SAMPLING LOG

Date: 10/24/23
 Weather: Sunny 60's

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
 Event: 2SA2023 Phase A+B CLR/NPDES Sampler(s): C. Megee
 Well ID: MWFGDWG Field Calibration Completed: 0750 on 10/24/23
 Well Diameter: 2.0 inches Initial Depth to Water: 19.80 feet
 Depth to Bottom: 40.25 feet Water Column Thickness: _____ feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI 910 DSS16 E100132 Peristaltic Pump Compressor Non-dedicated BP
 In-Situ _____ MP-10 Controller Box MP-15 Controller Box _____

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{°C}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1513	6.54	398.8	2.20	0.80	11.4	133.9	21.25	~400
1516	6.87	353.3	1.87	0.58	11.3	127.3	21.28	~400
1519	6.60	231.4	2.65	1.79	11.3	177.4	21.50	~400
1522	6.44	201.0	3.96	1.97	11.3	198.6	21.41	~400
1525	6.35	186.7	5.63	1.92	11.4	214.3	21.60	~400
1528	6.32	183.2	6.90	1.89	11.4	218.8	21.60	~400
1531	6.29	178.5	8.11	1.84	11.4	224.2	21.62	~400
1534	6.27	178.0	8.26	1.87	11.7	230.7	21.65	~400
1540	_____	S	A	M	P	L	E	_____
1602	6.13	146.1	8.76	2.42	11.4	285.8	21.63	~400

Purge Cycle (End): 25/5 seconds @ ~20 psi Flow Rate (ml/min End): ~400
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): 35.35' (0.006) = 0.21
 Total Purge Volume (Gallons): ~3.5 Purge Water Management: O.W.S. On-site
 Purge Observations (color, odor, turbidity, sheen): Clear grab sample
 Purge time: 1509

Sample Time: 1540 Field Filtered (0.45µm): Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Phase A+B NPDES (Diss [As, Ba, Bo, Cd, Ga, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS), Cr. tot., NO2+NO3, NH3 tot.
 Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Tl, Sn, V, Zn, Hg), Cyanide, Sulfide Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228) Cd, Cr, Co, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, Rad 226-228

Other Observations / Equipment Operation Problems: _____
 Sample ID: 102423NMWFGDWG
 Sampler Signature: [Signature] Date: 10/24/23 Page 1 of 1
 QA/QC Signature: [Signature] Date: 10/27/23



MICROPURGE SAMPLING LOG

Date: 10/24/23
Weather: Sunny, 60's

Project Name: Mount Storm Power Station Project No./Task No.: 31406066.005
 Event: 2SA2023 Phase A+B CCR Sampler(s): M. Knez
 Well ID: CCR Field Blank Field Calibration Completed: _____
 Well Diameter: _____ inches Initial Depth to Water: _____ feet
 Depth to Bottom: _____ feet Water Column Thickness: _____ feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI _____ Peristaltic Pump Compressor Non-dedicated BP
 In-Situ _____ MP-10 Controller Box MP-15 Controller Box _____

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{°C}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
1010				SAMPLE				

Purge Cycle (End): _____ seconds @ _____ psi Flow Rate (ml/min End): _____
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube: Vol=Depth to Pump x 0.006 gal/ft): _____
 Total Purge Volume (Gallons): _____ Purge Water Management: _____
 Purge Observations (color, odor, turbidity, sheen): clear grab sample taken near MW-10, using lab provided D.I. Water
 Purge time: _____
 Sample Time: 1010 Field Filtered (0.45um): Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Closed 5-year NPDES (Diss (As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se), Chloride, SO4, TDS, TSS)
 Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Ti, Sn, V, Zn, Hg), Cyanide, Sulfide Phase A IV Detects (As, Ba, Cd, Cr, Co, Pb, Li, Se, Rad 226-228) Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)

Other Observations / Equipment Operation Problems: _____
 Sample ID: 102423 PB Field Blank
 Sampler Signature: M. Knez Date: 10/24/23 Page 1 of 1
 QA/QC Signature: CK Date: 10/27/23



MICROPURGE SAMPLING LOG

Date: 10/23/23
Weather: Sunny, 50's

Project Name: Mount Storm Power Station
Project No./Task No.: 31406066.005
Event: 2SA2023 Phase A & B CCR
Sampler(s): M. Knez
Well ID: Field Duplicate
Field Calibration Completed:
Well Diameter: inches
Initial Depth to Water: feet
Depth to Bottom: feet
Water Column Thickness: feet
Equipment Used: [checked] WL Indicator, [checked] YSI, [checked] MP-15 Controller Box, [checked] Dedicated Bladder Pump, [checked] Non-dedicated BP

Table with 9 columns: Time (5 minute Int.), pH (S.U.), Sp. Cond. (uS/cm)°C, Turbidity (NTU), Dissolved Oxygen (mg/L), Temp. (°C), ORP (mV), DTW (feet), Flow Rate (mL/min). Includes handwritten 'SAMPLE' in the Dissolved Oxygen column and '1450' in the Time column.

Purge Cycle (End): seconds @ psi Flow Rate (ml/min End):
Purge volume (gallons) prior to stabilization monitoring (3/8" I.D. Tube): Vol=Depth to Pump x 0.006 gal/ft:
Total Purge Volume (Gallons): Purge Water Management:
Purge Observations (color, odor, turbidity, sheen): clear grab sample taken from MW-22

Purge time:
Sample Time: 1450
Field Filtered (0.45um): [checked] Yes [checked] No
Sample Parameters/Analyte(s): [checked] Petro (DRO) [checked] CCR Appendix III [checked] CCR Appendix IV
[checked] Closed 5-year NPDES (Diss [As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se], Chloride, SO4, TDS, TSS)
[checked] Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Ti, Sn, V, Zn, Hg), Cyanide, Sulfide
[checked] Phase A IV Detects (As, Ba, Pb, Li, Se, Rad 226-228)
Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, TI, Rad 226-228)

Other Observations / Equipment Operation Problems:
Sample ID: 102323 FD Field Duplicate
Sampler Signature: M. Knez Date: 10/23/23 Page 1 of 1
QA/QC Signature: Date: 10/27/23



MICROPURGE SAMPLING LOG

Date: 10/23/23

Weather: Sunny, 50's

Project Name: Mount Storm Power Station Project No./Task No: 31406066.005
 Event: 2SA2027 TDS (Phase A & B) Sampler(s): M. Knez
 Well ID: FD Field Duplicate Field Calibration Completed: _____
 Well Diameter: _____ inches Initial Depth to Water: _____ feet
 Depth to Bottom: _____ feet Water Column Thickness: _____ feet
 Equipment Used: WL Indicator Turbidity Meter Air Tank Dedicated Bladder Pump
 YSI _____ Peristaltic Pump Compressor Non-dedicated BP
 In-Situ _____ MP-10 Controller Box MP-15 Controller Box _____

Time (5 minute int.)	pH (S.U.)	Sp. Cond. (uS/cm) ^{°C}	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	DTW (feet)	Flow Rate (mL/min)
Stabilization	+/- 0.1	+/- 3%	if >10, +/- 10%	+/- 10%	+/- 1°C	+/- 10 mV	<0.3 feet	<500
<u>1445</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>SAMPLE</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>

Purge Cycle (End): _____ seconds @ _____ psi Flow Rate (ml/min End): _____
 Purge volume (gallons) prior to stabilization monitoring (3/8" I.D Tube: Vol=Depth to Pump x 0.006 gal/ft): _____
 Total Purge Volume (Gallons): _____ Purge Water Management: _____
 Purge Observations (color, odor, turbidity, sheen): clear grab sample taken from MW-2a
 Purge time: _____

Sample Time: 1445 Field Filtered (0.45um): Yes No
 Sample Parameters/Analyte(s): Petro (DRO) CCR Appendix III CCR Appendix IV
 Closed 5-year NPDES (Diss (As, Ba, Bo, Cd, Ca, Fe, Pb, Mn, Mo, Se), Chloride, SO4, TDS, TSS) TDS
 Phase II (Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Ni, Se, Ag, Ti, Sn, V, Zn, Hg), Cyanide, Sulfide Phase A IV Detects (As, Ba, Pb, Li, Se, Rad 226-228) Cd, Cr, Co, Phase B IV Detects (As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti, Rad 226-228)

Other Observations / Equipment Operation Problems: _____
 Sample ID: 102323 FD Field Duplicate
 Sampler Signature: M. Knez Date: 10/23/23 Page 1 of 1
 QA/QC Signature: [Signature] Date: 10/29/23



ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Hicks
Dominion Energy Services, Inc.
5000 Dominion Blvd
Glen Allen, Virginia 23060

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JOB DESCRIPTION

MSPS-2SA2023-TDS-F

JOB NUMBER

240-194192-3

Eurofins Cleveland

Job Notes

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Authorization

Roxanne Cisneros

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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
QC Sample Results	14
QC Association Summary	16
Lab Chronicle	17
Certification Summary	18
Chain of Custody	19
Receipt Checklists	32

Definitions/Glossary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Qualifiers

General Chemistry

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

Glossary

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

Case Narrative

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Job ID: 240-194192-3

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-194192-3

Receipt

The samples were received on 10/25/2023 10:10 AM and 10/26/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 0.6° C, 1.1° C, 2.1° C, 3.5° C, 4.5° C, 4.6° C and 4.7° C.

General Chemistry

Method SM 2540C: The following samples were received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: 102323NMWFGDW2 (240-194192-2) and 102323NMWFGDW2 (240-194192-2[DU]).

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



Method Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Method	Method Description	Protocol	Laboratory
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	EET PIT

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-194192-1	102323NMW22	Water	10/23/23 14:35	10/25/23 10:10
240-194192-2	102323NMWFGDW2	Water	10/23/23 16:50	10/25/23 10:10
240-194192-4	102323FDDUPLICATE	Water	10/23/23 14:45	10/25/23 10:10
240-194306-7	102423NMW10	Water	10/24/23 09:15	10/26/23 09:50
240-194306-8	102423FBFIELDBLANK	Water	10/24/23 10:10	10/26/23 09:50

- 1
- 2
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- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Client Sample ID: 102323NMW22

Lab Sample ID: 240-194192-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	340		10	10	mg/L	1		2540C - 2015	Total/NA

Client Sample ID: 102323NMWFGDW2

Lab Sample ID: 240-194192-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	190	H	10	10	mg/L	1		2540C - 2015	Total/NA

Client Sample ID: 102323FDDUPLICATE

Lab Sample ID: 240-194192-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	340		10	10	mg/L	1		2540C - 2015	Total/NA

Client Sample ID: 102423NMW10

Lab Sample ID: 240-194306-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	28		10	10	mg/L	1		2540C - 2015	Total/NA

Client Sample ID: 102423FBFIELDBLANK

Lab Sample ID: 240-194306-8

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Client Sample ID: 102323NMW22

Lab Sample ID: 240-194192-1

Date Collected: 10/23/23 14:35

Matrix: Water

Date Received: 10/25/23 10:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	340		10	10	mg/L			10/27/23 19:36	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Client Sample ID: 102323NMWFGDW2

Lab Sample ID: 240-194192-2

Date Collected: 10/23/23 16:50

Matrix: Water

Date Received: 10/25/23 10:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	190	H	10	10	mg/L			11/17/23 17:10	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Client Sample ID: 102323FDDUPLICATE

Lab Sample ID: 240-194192-4

Date Collected: 10/23/23 14:45

Matrix: Water

Date Received: 10/25/23 10:10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	340		10	10	mg/L			10/27/23 19:36	1

- 1
- 2
- 3
- 4
- 5
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- 8
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- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Client Sample ID: 102423NMW10

Lab Sample ID: 240-194306-7

Date Collected: 10/24/23 09:15

Matrix: Water

Date Received: 10/26/23 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	28		10	10	mg/L			10/31/23 15:58	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Client Sample ID: 102423FBFIELDBLANK

Lab Sample ID: 240-194306-8

Date Collected: 10/24/23 10:10

Matrix: Water

Date Received: 10/26/23 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	<10		10	10	mg/L			10/31/23 15:58	1

- 1
- 2
- 3
- 4
- 5
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- 8
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- 10
- 11
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- 13
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QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 180-450440/1
Matrix: Water
Analysis Batch: 450440

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/27/23 19:36	1

Lab Sample ID: LCS 180-450440/2
Matrix: Water
Analysis Batch: 450440

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	336	328		mg/L		98	85 - 115

Lab Sample ID: 240-194198-A-2 DU
Matrix: Water
Analysis Batch: 450440

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1900		1950		mg/L		0.6	10

Lab Sample ID: MB 180-450663/1
Matrix: Water
Analysis Batch: 450663

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/31/23 15:58	1

Lab Sample ID: LCS 180-450663/2
Matrix: Water
Analysis Batch: 450663

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	336	310		mg/L		92	85 - 115

Lab Sample ID: 240-194306-7 DU
Matrix: Water
Analysis Batch: 450663

Client Sample ID: 102423NMW10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	28		20.0		mg/L		NC	10

Lab Sample ID: MB 180-452323/1
Matrix: Water
Analysis Batch: 452323

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			11/17/23 17:10	1

Lab Sample ID: LCS 180-452323/2
Matrix: Water
Analysis Batch: 452323

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	336	308		mg/L		92	85 - 115

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QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: 240-194192-2 DU
Matrix: Water
Analysis Batch: 452323

Client Sample ID: 102323NMWFGDW2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	190	H	192	H	mg/L		2	10

- 1
- 2
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- 10
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- 13
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QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

General Chemistry

Analysis Batch: 450440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-1	102323NMW22	Total/NA	Water	2540C - 2015	
240-194192-4	102323FDDUPLICATE	Total/NA	Water	2540C - 2015	
MB 180-450440/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 180-450440/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
240-194198-A-2 DU	Duplicate	Total/NA	Water	2540C - 2015	

Analysis Batch: 450663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194306-7	102423NMW10	Total/NA	Water	2540C - 2015	
240-194306-8	102423FBFIELDBLANK	Total/NA	Water	2540C - 2015	
MB 180-450663/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 180-450663/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
240-194306-7 DU	102423NMW10	Total/NA	Water	2540C - 2015	

Analysis Batch: 452323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-2	102323NMWFGDW2	Total/NA	Water	2540C - 2015	
MB 180-452323/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 180-452323/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
240-194192-2 DU	102323NMWFGDW2	Total/NA	Water	2540C - 2015	

Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Client Sample ID: 102323NMW22

Lab Sample ID: 240-194192-1

Date Collected: 10/23/23 14:35

Matrix: Water

Date Received: 10/25/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540C - 2015		1	450440	LWM	EET PIT	10/27/23 19:36

Client Sample ID: 102323NMWFGDW2

Lab Sample ID: 240-194192-2

Date Collected: 10/23/23 16:50

Matrix: Water

Date Received: 10/25/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540C - 2015		1	452323	LWM	EET PIT	11/17/23 17:10

Client Sample ID: 102323FDDUPLICATE

Lab Sample ID: 240-194192-4

Date Collected: 10/23/23 14:45

Matrix: Water

Date Received: 10/25/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540C - 2015		1	450440	LWM	EET PIT	10/27/23 19:36

Client Sample ID: 102423NMW10

Lab Sample ID: 240-194306-7

Date Collected: 10/24/23 09:15

Matrix: Water

Date Received: 10/26/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540C - 2015		1	450663	LWM	EET PIT	10/31/23 15:58

Client Sample ID: 102423FBFIELDBLANK

Lab Sample ID: 240-194306-8

Date Collected: 10/24/23 10:10

Matrix: Water

Date Received: 10/26/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540C - 2015		1	450663	LWM	EET PIT	10/31/23 15:58

Laboratory References:

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

Accreditation/Certification Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-F

Job ID: 240-194192-3

Laboratory: Eurofins Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	142	01-31-24

- 1
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- 13
- 14

Eurofins Cleveland
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

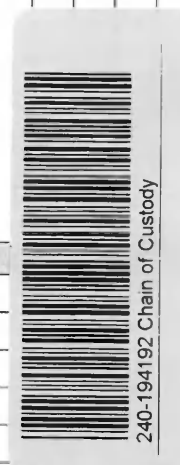
Chain of Custody Record



Environment Testing

COCID: MSPS-25A2023-TDS-F-1-1

Client Information		Lab PM		Carrier Tracking No(s)		COC No	
Client Contact: Crystal Shadle		Cisneros, Roxanne		240-113183-40246.1		240-113183-40246.1	
Company: WSP USA Inc		E-Mail: roxanne.cisneros@et.eurofins.com		State of Origin: WV		Page: Page 1 of 2	
Address: 1100 Boulders Parkway Suite 503		PWSID:		Job #:		Preservation Codes:	
City: Richmond		TAT Requested (days): STANDARD TAT		Analysis Requested		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Inzma Z - other (specify)	
State, Zip: VA, 23227		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		2540C_Calcd - TDS		Other:	
Phone: 50168481		PO #: 50168481		Field Filtered Sample (Yes or No)		Total Number of Containers	
Email: crystal.shadle@wsp.com		WO #: 31406066.005		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
Project Name: Mount Storm Power Station		Project #: 24021758		X		1 All Samples	
Site: SSOW#		SSOW#		X		1 preserved on ice	
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (Water, Solid, On-site)	Special Instructions/Note:	
10 23 23NMW22	10/23/23	1435	G		Water		
10 23 23NMWFGDW2	10/23/23	1650	G		Water		
10 23 23NMW6					Water		
10 23 23NMW8					Water		
10 23 23NMW10					Water		
10 23 23NMWFGDW6					Water		
10 23 23EBField Blank					Water		
10 23 23FDDuplicate	10/23/23	1445	G		Water		
10 23 23NMW6R					Water		
10 23 23NMW7					Water		
10 23 23NMW12R					Water		
<p>Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Level II Data Package</p> <p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: <i>[Signature]</i> Company: WSP</p> <p>Relinquished by: _____ Date/Time: 10/24/23 @ 0830</p> <p>Relinquished by: _____ Date/Time: _____</p> <p>Relinquished by: _____ Date/Time: _____</p> <p>Custody Seals Intact: _____ Custody Seal No.: _____</p> <p>Δ Yes Δ No</p>							
<p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p> <p>Received by: <i>[Signature]</i> Company: WSP</p> <p>Received by: _____ Date/Time: _____</p> <p>Received by: _____ Date/Time: _____</p> <p>Cooler Temperature(s) °C and Other Remarks:</p>							



#202

Ver: 06/08/2021
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Eurofins - Cleveland Sample Receipt Form/Narrative Login # : _____
Barberton Facility

Client WSP Site Name _____ Cooler unpacked by: M. Koon
Cooler Received on 10-25-23 Opened on 10-25-23
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____


Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 22 Foam Box _____ Client Cooler _____ Box _____ Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
- Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
- Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Yes  Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login # : _____

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC	Client	Box	Other	IR GUN #: 4	4.8	4.6	Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: 4	3.7	3.5	Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None
EC	Client	Box	Other	IR GUN #: _____			Wet Ice Blue Ice Dry Ice Water None

See Temperature Excursion Form

Eurofins Cleveland
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

COCID: MSPS-2SA2023-TDS-F-2-1

Chain of Custody Record

eurofins

Client Information Client Contact: Crystal Shadle Company: WSP USA Inc Address: 1100 Boulders Parkway Suite 503 City: Richmond State: VA, ZIP: 23227 PO#: 50168481 Email: crystal.shadle@wsp.com Project Name: Mount Storm Power Station Site: S50W#		Lab PV: Cisneros, Roxanne E-Mail: roxanne.cisneros@et.eurofinsus.com Barcode: 240-194306 Chain of Custody State of Origin: WV Job #:		GOC No: 240-113183-40246 1 Page: Page 1 of 2	
Due Date Requested: TAT Requested (days): STANDARD TAT Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No Project #: 31406066 005 Project Name: Mount Storm Power Station Site: S50W#		Analysis Requested Total Number of Containers:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - Trizma Y - EDTA Z - other (specify)	
Sample Identification Sample Date: 10/24/23 Sample Time: 0915 Sample Type: C Matrix: Water Preservation Code:		Field Filtered Sample (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Perform MS/MSD (Yes or No): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2540C, Cold - TDS: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Special Instructions/Note: All Samples preserved on ice 3102423150mtrixspice/ 102423150mtrixspice taken @ MW10 1 1 - Cuy	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Deliverable Requested: <input checked="" type="checkbox"/> I <input type="checkbox"/> III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Empty Kit Relinquished by: <i>Cathy</i>		Relinquished by: <i>[Signature]</i>		Method of Shipment:	
Relinquished by: <i>[Signature]</i>		Relinquished by: <i>[Signature]</i>		Date/Time: 10/24/23 @ 0830	
Relinquished by:		Relinquished by:		Date/Time:	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Company: WSP	



Client WSP USA Inc Site Name _____

Cooler unpacked by: [Signature]

Cooler Received on 10-26-23 Opened on 10-26-23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

See Multiple Cooler Form

1. Cooler temperature upon receipt
IR GUN # 21 (CF -0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 5
 - Were the seals on the outside of the cooler(s) signed & dated? Yes No
 - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 - Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719
14. Were VOAs on the COC? Yes No NA
15. Were air bubbles >6 mm in any VOA vials? Yes Larger than this.
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA
17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

MW 10 missing 1 plastic 500 ml Unpreserve bottle

MW 7 was received in cooler not on COC will add to end of job. Sampling date and time logged from bottle: 10-24-23

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

and 13350
10-26-23

20. SAMPLE PRESERVATION

Sample(s) _____
Time preserved: _____ Preservative(s) added/Lot number(s): _____ were further preserved in the laboratory.

VOA Sample Preservation - Date/Time VOAs Frozen: _____

JAMES BISHOP
EUROFINS
1244 EXECUTIVE BLVD. SUITE F
CHESAPEAKE VA 23320
UNITED STATES US

10.00 LB MAX
0415933/CAFE9753

RT 16A
6 10:30 A
9228
10:26

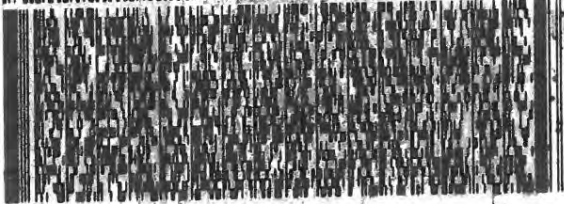
SAMPLE RECEIVING
EUROFINS CLEVELAND
180 S. VAN BUREN

BARBERTON OH 44203

(330) 497-9300

REF:

DEPT:



FedEx
Express



12330220512014W



240-194306 Waybill

FedEx
MPS# 0263 5903 0984 9228

THU - 26 OCT AA
PRIORITY OVERNIGHT

64 CAKA

44203
OH-US
CLE



3734303 25oct2023 MRBA 5B1G1/BC8B/C08B

Environment Testing
In America

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FedEx®

eurofins

Environment Testing
TestAmerica

Part # 159470-434 NTW EXP 06/24



ORIGIN ID: CAKA (330) 312-0176
LANCE HERSHMAN
EUROFINS TESTAMERICA BARBERTON
180 S VAN BUREN
BARBERTON, OH 44203
UNITED STATES US

SHIP DATE: 25OCT23
ACTWT: 49.00 LB MAN
CAD: 0562065/CAFE3755

BILL THIRD PARTY

TO ENVIRONMENTAL SAMPLE RECEIPT

PITTSBURGH

DRIVE

TCH

PA 15238

RT 198
EZ 197
1 10:30
A
9877
10:26

PO: DEPT:

Uncorrected temp
Thermometer ID

CF -0.4 Initials PM

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

FedEx
Express

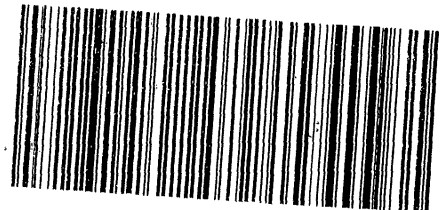


TRK# 6549 1095 9877
0201

THU -- 26 OCT 10:30
PRIORITY OVERNIGHT

65 AGCA

15238
PA-US PI



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15238 PA-US P17
 SATURDAY 12:00P
 PRIORITY OVERNIGHT

65 AGCA

TRK# 6549 1096 0778
 # MASTER ##
 1 of 2



Uncorrected temp 5.2 °C
 Thermometer ID 17
 Initials CF-04
 PT-VI-SR-001 effective 11/8/18

ENVIRONMENTAL SAMPLE RECEIPT
 EUROFINS PITTSBURGH
 301 ALPHA DRIVE
 CHRIS KOVITCH
 PITTSBURGH PA 15238

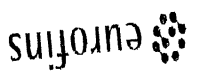
SHIP DATE: 220C123
 WEIGHT: 50.00 LB MM
 CNO: 0562085/CAFEE3755
 BILL THIRD PARTY

ORIGIN TO: CARR (39) 312-0178
 LANCE HERSHMAN
 EUROFINS TESTAMERICA
 180 S VAN BUREN
 BARBERTON OH 44203
 UNITED STATES US



240-194306 Waybill

Environment Testing
 TestAmerica



Part # 159470-434 MTW EXP 06/24

15238 PA-US P17

SATURDAY 12:00P
PRIORITY OVERNIGHT

65 AGCA

TRK# 6549 1096 0778
MASTER

1 of 2



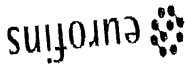
Uncorrected temp 5.2 °C
Thermometer ID 17
Initials CF-04
PT-VI-SR-001 effective 11/8/18



ENVIRONMENTAL SAMPLE RECEIPT
EUROFINS PITTSBURGH
301 ALPHA DRIVE
CHRIS KOVICH
PITTSBURGH PA 15238
REF: (412) 963-7058

SHIP DATE: 27OCT23
ACTWGT: 80.00 LB MAN
CADD: 0562065/CNF32755
BILL THIRD PARTY
ORIGIN ID: CARR (330) 312-0176
LANCE HERSHMAN
EUROFINS TESTHERICA BARBERTON
180 S VAN BUREN
BARBERTON, OH 44203
UNITED STATES US

Environment Testing
TestAmerica



240-194306 Waybill

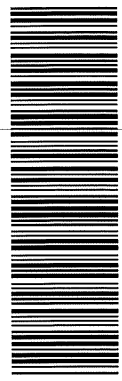
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Eurofins Cleveland
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

*10/23/23
 10/23/23
 10/23/23*

Chain of Custody Record

ins | Environment Testing



Client Information (Sub Contract Lab)
 Client Contact: Cisneros, Roxanne
 Shipping/Receiving: roxanne.cisneros@et.eurofinsus.com | west virginia
 Company: Eurofins Environment Testing Northeast
 Address: 301 Alpha Drive, RIDC Park, Pittsburgh, PA, 15238
 Phone: 412-963-7058 (Tel) 412-963-2468 (Fax)
 Email: 24021758
 Project #: Mount Storm Power Station
 Site: S20W#:

Lab PM: Cisneros, Roxanne
Phone: roxanne.cisneros@et.eurofinsus.com | west virginia
E-Mail: roxanne.cisneros@et.eurofinsus.com | west virginia
Accreditations Required (See note): State - West Virginia DEP; State Program - West Virginia ...
Due Date Requested: 11/7/2023
TAT Requested (days):
PO #:
WO #:
Project #: 24021758
SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1/1 Distilled Ammonia	353.2 Pres/ Nitrate-Nitrite	2540C Calc'd/ TDS	Total Number of Containers	Special Instructions/Note:
102323NMW22 (240-194192-1)	10/23/23	14:35 Eastern		Water	X	X	X	X		2	Dominion
102323NMWFGDW2 (240-194192-2)	10/23/23	16:50 Eastern		Water	X	X	X	X		3	Dominion
102323NMWFGDW2 (240-194192-2MS)	10/23/23	16:50 Eastern	MS	Water	X	X	X	X		1	Dominion
102323NMWFGDW2 (240-194192-2MSD)	10/23/23	16:50 Eastern	MSD	Water	X	X	X	X		1	Dominion
102323NMW13 (240-194192-3)	10/23/23	15:35 Eastern		Water	X	X	X	X		2	Dominion
102323FDDUPLICATE (240-194192-4)	10/23/23	14:45 Eastern		Water	X	X	X	X		1	Dominion

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyze & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Special Instructions/QC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Empty Kit Relinquished by: _____ Date: _____
Relinquished by: *Janice Howard* Date/Time: 10/23/23 13:38 Company: *BEETAC*
Relinquished by: _____ Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-175761.1
Shipping/Receiving		E-Mail: roxanne.cisneros@et.eurofins.com	State of Origin: West Virginia	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State - West Virginia DEP; State Program - West Virginia ...		
Address: 301 Alpha Drive, RIDC Park, Pittsburgh PA, 15238		Job #: 240-194192-1		
Phone: 412-963-7058(Tel) 412-963-2468(Fax)		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (Specify)		
Email:		Other:		
Project Name: Mount Storm Power Station		Analysis Requested		
Site:		Total Number of containers		
Due Date Requested: 11/7/2023		Field Filtered Sample (Yes or No)		
TAT Requested (days):		Perform MS/MSD (Yes or No)		
PO #:		2540C_Calcd/ TDS		
WO #:		X		
Project #: 24021758		Sample Date		
SSOW#:		Sample Time		
		Sample Type (C=comp, G=grab)		
		Matrix (W=water, S=solid, O=wast/will, B=Tissue, A=Air)		
		Preservation Code:		
		Sample Date: 10/23/23		
		Sample Time: 16:50 Eastern		
		Sample Type: DU Water		
		Special Instructions/Note: Dominion		
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:		
102323NMWFGDW2 (240-194192-2DU)				

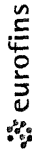
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____
 Relinquished by: *[Signature]* Date: 11/23/23 Company: *[Signature]*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seal No.: _____ Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact: Shipping/Receiving		Phone:	Cisneros, Roxanne E-Mail: roxanne.cisneros@et.eurofins.com	State of Origin: West Virginia	240-176735.1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - West Virginia DEP		Page: Page 1 of 1	Job #: 240-194192-3
Address: 301 Alpha Drive, RIDC Park, Pittsburgh State, Zip PA, 15238		Due Date Requested: 11/8/2023	Analysis Requested		
Phone: 412-963-7058(Tel) 412-963-2468(Fax)	PO #:	TAT Requested (days):	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd/TDS
Email:	WO #:	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, B=biobased, A=Air)
Project Name: MSPS-2SA2023-TDS-F	Site:	10/23/23	16:50 Eastern	Water	Preservation Code:
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil, B=biobased, A=Air)
102323NMWFGDW2 (240-194192-2)		10/23/23	16:50 Eastern	Water	Preservation Code:
Total Number of containers		Special Instructions/Note:			
1		Dominion			
Other:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testis/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC		Special Instructions/Note:			
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:			
Primary Deliverable Rank: 2		Method of Shipment:			
Empty Kit Relinquished by:		Time:			
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>			
Date/Time: 11/23/23 15:00		Date/Time: 11/16/23 10:35			
Company: <i>[Signature]</i>		Company: E.P.H.N.E.			
Relinquished by:		Received by:			
Date/Time:		Date/Time:			
Relinquished by:		Received by:			
Date/Time:		Date/Time:			
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks:			



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-194192-3

SDG Number:

Login Number: 194192

List Number: 3

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 10/26/23 06:08 PM

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



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-194192-3

SDG Number:

Login Number: 194306

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 10/28/23 03:33 PM

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





ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Hicks
Dominion Energy Services, Inc.
5000 Dominion Blvd
Glen Allen, Virginia 23060

Generated 11/8/2023 1:36:19 PM

JOB DESCRIPTION

MSPS-2SA2023-TDS-H

JOB NUMBER

240-194306-1

Eurofins Cleveland

Job Notes

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

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

Authorization

Roxanne Cisneros

Generated
11/8/2023 1:36:19 PM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
roxanne.cisneros@et.eurofinsus.com
(615)301-5761



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
QC Sample Results	12
QC Association Summary	13
Lab Chronicle	14
Certification Summary	15
Chain of Custody	16
Receipt Checklists	30

Definitions/Glossary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

Glossary

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

Case Narrative

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

Job ID: 240-194306-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-194306-1

Receipt

The samples were received on 10/26/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.6° C, 1.1° C, 2.1° C, 4.5° C and 4.7° C.

General Chemistry

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

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Method Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

Method	Method Description	Protocol	Laboratory
2540C - 2015	Total Dissolved Solids (Dried at 180 °C)	SM	EET PIT

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
240-194306-1	102423NMW5	Water	10/24/23 11:00	10/26/23 09:50
240-194306-2	102423NMW8	Water	10/24/23 15:35	10/26/23 09:50
240-194306-3	102423NMWFGDW6	Water	10/24/23 15:40	10/26/23 09:50

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Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

Client Sample ID: 102423NMW5

Lab Sample ID: 240-194306-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	140		10	10	mg/L	1		2540C - 2015	Total/NA

Client Sample ID: 102423NMW8

Lab Sample ID: 240-194306-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	100		10	10	mg/L	1		2540C - 2015	Total/NA

Client Sample ID: 102423NMWFGDW6

Lab Sample ID: 240-194306-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	71		10	10	mg/L	1		2540C - 2015	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

Client Sample ID: 102423NMW5

Lab Sample ID: 240-194306-1

Date Collected: 10/24/23 11:00

Matrix: Water

Date Received: 10/26/23 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	140		10	10	mg/L			10/31/23 15:58	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

Client Sample ID: 102423NMW8

Lab Sample ID: 240-194306-2

Date Collected: 10/24/23 15:35

Matrix: Water

Date Received: 10/26/23 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	100		10	10	mg/L			10/31/23 15:58	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

Client Sample ID: 102423NMWFGDW6

Lab Sample ID: 240-194306-3

Date Collected: 10/24/23 15:40

Matrix: Water

Date Received: 10/26/23 09:50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C - 2015)	71		10	10	mg/L			10/31/23 15:58	1

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QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

Method: 2540C - 2015 - Total Dissolved Solids (Dried at 180 °C)

Lab Sample ID: MB 180-450663/1
Matrix: Water
Analysis Batch: 450663

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	10	mg/L			10/31/23 15:58	1

Lab Sample ID: LCS 180-450663/2
Matrix: Water
Analysis Batch: 450663

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	336	310		mg/L		92	85 - 115

Lab Sample ID: 240-194306-A-7 DU
Matrix: Water
Analysis Batch: 450663

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	28		20.0		mg/L		NC	10

QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

General Chemistry

Analysis Batch: 450663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194306-1	102423NMW5	Total/NA	Water	2540C - 2015	
240-194306-2	102423NMW8	Total/NA	Water	2540C - 2015	
240-194306-3	102423NMWFGDW6	Total/NA	Water	2540C - 2015	
MB 180-450663/1	Method Blank	Total/NA	Water	2540C - 2015	
LCS 180-450663/2	Lab Control Sample	Total/NA	Water	2540C - 2015	
240-194306-A-7 DU	Duplicate	Total/NA	Water	2540C - 2015	

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Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

Client Sample ID: 102423NMW5

Date Collected: 10/24/23 11:00

Date Received: 10/26/23 09:50

Lab Sample ID: 240-194306-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540C - 2015		1	450663	LWM	EET PIT	10/31/23 15:58

Client Sample ID: 102423NMW8

Date Collected: 10/24/23 15:35

Date Received: 10/26/23 09:50

Lab Sample ID: 240-194306-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540C - 2015		1	450663	LWM	EET PIT	10/31/23 15:58

Client Sample ID: 102423NMWFGDW6

Date Collected: 10/24/23 15:40

Date Received: 10/26/23 09:50

Lab Sample ID: 240-194306-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	2540C - 2015		1	450663	LWM	EET PIT	10/31/23 15:58

Laboratory References:

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

Accreditation/Certification Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-TDS-H

Job ID: 240-194306-1

Laboratory: Eurofins Pittsburgh

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	142	01-31-24

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Chain of Custody Record

COCID: MSPS-2SA2023-TDS-H-2-1



Client Information		Sampier: M. Kuzel, C. Mige		Lab PV: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-113183-40246 1				
Client Contact: Crystal Shadle		Phone:		E-Mail: roxanne.cisneros@et.eurofins.com	State of Origin: WV	Page: Page 1 of 2				
Company: WSP USA Inc		RWSID:		Job #: WV						
Address: 1100 Boulders Parkway Suite 503										
City: Richmond										
State/Zip: VA, 23227										
Phone: 50168481										
Email: crystal.shadle@wsp.com										
Project Name: Mount Storm Power Station										
Site: 24021758										
SSOW#: 31406066.005										
Project #: 50168481										
Compliance Project: STANDARD TAT										
TAT Requested (days): STANDARD TAT										
Due Date Requested:										
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd - TDS	Analysis Requested	Total Number of Containers	Special Instructions/Note:
10-23NNMMWZ-6				Water	X		N			24021758
10-23NNMMWFGDWZ-6				Water						
10-24 23NNMW5	10/24/23	1100	G	Water		X			1	<i>All Samples preserved on ice</i>
10-24 23NNMW8	10/24/23	1535	G	Water		X			1	
10-23NNMMWZ-6				Water						
10-24 23NNMMWFGDW6	10/24/23	1540	G	Water		X			1	
10-23FBF120-Blank				Water						
10-23FDDuplicate-6				Water						
10-23NNMMWZ-6				Water						
10-23NNMMWZ-6				Water						
10-23NNMMWZ-6				Water						
Possible Hazard Identification	<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: <input checked="" type="checkbox"/> I, <input checked="" type="checkbox"/> II, <input checked="" type="checkbox"/> IV, Other (specify) Level II Data Package									
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months									
Special Instructions/QC Requirements:										
Barcode: 240-194306 Chain of Custody										
Empty Kit Relinquished by	Date/Time	Date:								
Relinquished by: <i>Cella</i>	10/24/23 @ 0830	Level II Data Package								
Relinquished by:	Date/Time	<input type="checkbox"/> Relinquished by _____ Company: WSP <input type="checkbox"/> Relinquished by _____ Company: WSP <input type="checkbox"/> Relinquished by _____ Company: WSP								
Custody Seals Intact		Custody Seal No.:								
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:								

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Eurofins - Cleveland Sample Receipt Form/Narrative
Barberton Facility

Login #: 194306

Client WSP USA Inc Site Name _____

Cooler unpacked by: [Signature]

Cooler Received on 10-26-23 Opened on 10-26-23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box _____ Client Cooler _____ Box _____ Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

See Multiple Cooler Form

1. Cooler temperature upon receipt
IR GUN # 21 (CF -0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 5 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No

10. Were correct bottle(s) used for the test(s) indicated? Yes No

11. Sufficient quantity received to perform indicated analyses? Yes No

12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719

14. Were VOAs on the COC? Yes No NA

15. Were air bubbles >6 mm in any VOA vials? ← Larger than this. Yes No NA

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA

17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

MW10 missing 1 plastic 500 ml Unpreserve bottle

MW7 was received in cooler not on COC will add to end of job. Sampling date and time logged from bottle: 10-24-23

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

and 13350 10-26-23

20. SAMPLE PRESERVATION

Sample(s) _____
Time preserved: _____ Preservative(s) added/Lot number(s): _____ were further preserved in the laboratory.

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Cooler Description (Circle)					IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
EC	Client	Box	Other		IR GUN #: 21	0.8	0.6	Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #: 21	1.3	1.1	Water	None	
EC	Client	Box	Other		IR GUN #: 21	2.3	2.1	Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #: 21	4.9	4.7	Water	None	
EC	Client	Box	Other		IR GUN #: 21	4.7	4.5	Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	
EC	Client	Box	Other		IR GUN #:			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other		IR GUN #:			Water	None	

See Temperature Excursion Form

JAMES BISHOP
EUROFINS
1244 EXECUTIVE BLVD. SUITE F
CHESAPEAKE VA 23320
UNITED STATES US

RT 16A
6
10:30
A
9228
10.26

10.00 LB MAN
0415933/CAFE9753

ALL RECIPIENT

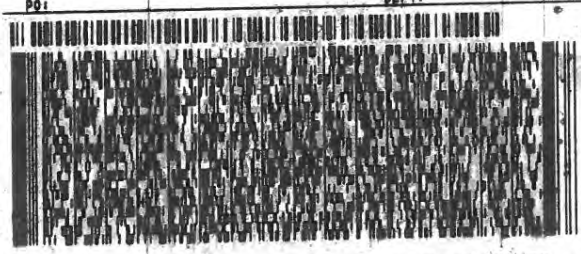
SAMPLE RECEIVING
EUROFINS CLEVELAND
180 S. VAN BUREN

BARBERTON OH 44203

(330) 497-8300
INU
P91

REF:

DEPT:



FedEx
Express



240-194306 Waybill

FedEx
MPS# 0263 5903 0984 9228

THU - 26 OCT 'AA
PRIORITY OVERNIGHT

64 CAKA

44203
OH-US
CLE



3734383 25Oct2023 MRBA 581G1/BC88/C088

Environment Testing
Panorica

9300

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PA-US P17
 15238
 SATURDAY 12:00P
 PRIORITY OVERNIGHT

65 AGCA

TRK# 6549 1096 0778
 # MASTER ##
 1 of 2



Uncorrected temp
 Thermometer ID
 Initials
 CF-04
 S.2 °C
 17
 10

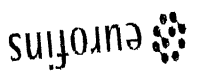
ENVIRONMENTAL SAMPLE RECEIPT
 EUROFINS PITTSBURGH
 301 ALPHA DRIVE
 CHRIS KOVITGH
 PITTSBURGH PA 15238

SHIP DATE: 220C123
 ACTWT: 50.00 LB MM
 CMO: 0562085/CAFEE3755
 BILL THIRD PARTY
 BARBERTON, OH 44203
 UNITED STATES US
 EUROFINS TESTAMERICA
 180 S VAN BUREN
 BARBERTON
 LANCE HERSHMAN
 ORIGIN TO: CARR (39) 312-0178



240-194306 Waybill

Environment Testing
 TestAmerica



Part # 159470-434 MTW EXP 06/24

15238 PA-US P17

SATURDAY 12:00P
PRIORITY OVERNIGHT

65 AGCA

TRK# 6549 1096 0778
MASTER

1 of 2



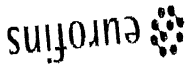
PT-VI-SR-001 effective 11/8/18
Uncorrected temp 5.2 °C
Thermometer ID 17
Initials CF-04



ENVIRONMENTAL SAMPLE RECEIPT
EUROFINS PITTSBURGH
301 ALPHA DRIVE
CHRIS KOVICH
PITTSBURGH PA 15238
REF: (412) 963-7058

SHIP DATE: 27OCT23
ACTWGT: 80.00 LB MAN
CNO: 0562065/CNF32755
BILL THIRD PARTY
ORIGIN ID: CCRX (330) 312-0176
LANCE HERSHMAN
EUROFINS TESTHERICA BARBERTON
180 S VAN BUREN
BARBERTON, OH 44203
UNITED STATES US

Environment Testing
TestAmerica



240-194306 Waybill

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Eurofins Cleveland

180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

Client Information (Sub Contract Lab)

Client Contact: **Cisneros, Roxanne**
Shipping/Receiving: **roxanne.cisneros@el**

Company: **Eurofins Environment Testing Northeast**
Address: **301 Alpha Drive, RIDC Park, Pittsburgh PA, 15238**

Phone: **412-963-7058(Tel) 412-963-2468(Fax)**
Email:

Project Name: **MSPS-2SA2023-TDS-H**
Site:

PO #:
WO #:

Due Date Requested: **11/8/2023**
TAT Requested (days):

Accreditations Required: **State Program - West Virginia DEP**

Lab PM: **Cisneros, Roxanne**
E-Mail: **roxanne.cisneros@el**

Sample ID: **102423NMW5 (240-194306-1)**

Sample ID: **102423NMW8 (240-194306-2)**

Sample ID: **102423NMWFGDW6 (240-194306-3)**

Sample Date: **10/24/23**

Sample Time: **11:00 Eastern**

Sample Date: **10/24/23**

Sample Time: **15:35 Eastern**

Sample Date: **10/24/23**

Sample Time: **15:40 Eastern**

Matrix: **Water**

Matrix: **Water**

Matrix: **Water**

Field Filtered Sample (Yes or No): **X**

Perform MS/MSD (Yes or No): **X**

2540C_Calcd/TDS: **X**

Total Number of Containers: **1**

Special Instructions/Note: **Dominion**

Special Instructions/Note: **Dominion**

Special Instructions/Note: **Dominion**

Special Instructions/Note:

Special Instructions/Note:

Special Instructions/Note:

Special Instructions/Note:

COC No: **240-175856-1**

Page: **1 of 1**

Job #: **240-194306-1**

Preservation Codes:

- A - HCL
- B - NaOH
- C - Zn Acetate
- D - Nitric Acid
- E - NaHSO4
- F - MeOH
- G - Anchlor
- H - Ascorbic Acid
- I - Ice
- J - DI Water
- K - EDTA
- L - EDA
- Other:
- M - Hexane
- N - None
- O - AsNaO2
- P - Na2O4S
- Q - Na2SO3
- R - Na2S2O3
- S - H2SO4
- T - TSP Dodecahydrate
- U - Acetone
- V - MCAA
- W - pH 4-5
- Y - Trizma
- Z - other (specify)



240-194306 Chain of Custody

Environment Testing



Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC

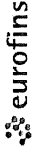
Possible Hazard Identification
 Return To Client Disposal By Lab Archive For Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: <i>Ashlee Harnick</i>	Date/Time: <i>11/27/23 9:00</i>	Company: <i>ETN</i>	Received by: <i>Ashlee Harnick</i>
Relinquished by: <i>Ashlee Harnick</i>	Date/Time: <i>11/28/23 09:46</i>	Company: <i>ETN</i>	Received by: <i>Ashlee Harnick</i>
Relinquished by: <i>Ashlee Harnick</i>	Date/Time: <i>11/28/23 09:46</i>	Company: <i>ETN</i>	Received by: <i>Ashlee Harnick</i>

Cooler Temperature(s) °C and Other Remarks:

Custody Seal No.: Yes No

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Cisneros, Roxanne	Carrier Tracking No(s): 240-175856.1
Client Contact: Shipping/Receiving		E-Mail: roxanne.cisneros@et.eurofins.com	Page 1 of 1
Company: Eurofins Environment Testing Northeast,		State of Origin: West Virginia	Job #: 240-194306-2
Address: 301 Alpha Drive, RIDC Park, Pittsburgh, PA, 15238		Accreditations Required (See note): State Program - West Virginia DEP	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:
Due Date Requested: 11/5/2023		Analysis Requested	
TAT Requested (days):		Total Number of Containers	
PO #:	2540C_Calcd/ TDS		
WO #:	Perform MS/MSD (Yes or No)		
Project #:	Field Filtered Sample (Yes or No)		
SSOW#:	2540C_Calcd/ TDS		
Sample Identification - Client ID (Lab ID)		Special Instructions/Note:	
102423NMWFGDW3 (240-194306-4)	Sample Date: 10/24/23	Sample Time: 12:00 Eastern	1
102423NMWFGDW4 (240-194306-5)	Sample Date: 10/24/23	Sample Time: 13:20 Eastern	1
102423NMWFGDW5 (240-194306-6)	Sample Date: 10/24/23	Sample Time: 14:30 Eastern	1
Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)		Dominion	
Sample Type (C=Comp, G=grab)		Dominion	
Sample Time		Dominion	
Preservation Code:			
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC</p>			
Possible Hazard Identification			
Unconfirmed		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months	
Empty Kit Relinquished by:		Special Instructions/QC Requirements:	
Relinquished by: [Signature]		Method of Shipment:	
Relinquished by: [Signature]		Date: 10/28/23 0945	
Relinquished by: [Signature]		Date/Time: 10/28/23 0945	
Relinquished by: [Signature]		Date/Time: [Signature]	
Custody Seals Intact: Δ Yes Δ No		Date/Time: [Signature]	
Custody Seal No.:		Date/Time: [Signature]	
Cooler Temperature(s) °C and Other Remarks:		Date/Time: [Signature]	



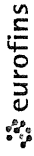
Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Cisneros, Roxanne	Carrier Tracking No(s): 240-175856.1							
Client Contact: Shipping/Receiving		E-Mail: roxanne.cisneros@et.eurofins.com	Page: Page 1 of 1							
Company: Eurofins Environment Testing Northeast		State of Origin: West Virginia	Job #: 240-194306-3							
Address: 301 Alpha Drive, RIDC Park, Pittsburgh, PA, 15238		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:								
Due Date Requested: 11/5/2023		Analysis Requested								
TAT Requested (days):		Total Number of Containers								
PO #:		Perform MS/MSD (Yes or No)								
WO #:		2540C_Calcd/ TDS								
Project #: 24021758		Field Filtered Sample (Yes or No)								
SSOW#:		2540C_Calcd/ TDS								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wast/oli, BT=Tissue, A=Air)	Preservation Code:	2540C_Calcd/ TDS	Perform MS/MSD (Yes or No)	Field Filtered Sample (Yes or No)	Total Number of Containers	Special Instructions/Note:
102423NIMW10 (240-194306-7)	10/24/23	09:15 Eastern	Water	Water		X	X	X	2	Dominion
102423NIMW10 (240-194306-7DU)	10/24/23	09:15 Eastern	DU	Water		X	X	X	1	Dominion
102423FBFIELDBLANK (240-194306-8)	10/24/23	10:10 Eastern	Water	Water		X	X	X	1	Dominion
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC</p>										
Possible Hazard Identification										
Unconfirmed										
Deliverable Requested: I, II, III, IV, Other (specify)										
Primary Deliverable Rank: 2										
Special Instructions/QC Requirements:										
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months										
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
Method of Shipment:										
Time:										
Received by: [Signature]										
Date/Time: 10/28/23 0945										
Company: [Signature]										
Received by:										
Date/Time:										
Company:										
Received by:										
Date/Time:										
Company:										
Cooler Temperature(s) °C and Other Remarks:										
Custody Seal No.:										
Δ Yes Δ No										



Chain of Custody Record



Client Information (Sub Contract Lab)
 Client Contact: **Cisneros, Roxanne**
 Shipping/Receiving: **roxanne.cisneros@et.eurofinsus.com**
 Company: **Eurofins Environment Testing Northeast**
 Address: **301 Alpha Drive, RIDC Park, Pittsburgh PA, 15238**
 Phone: **412-963-7058(Tel) 412-963-2468(Fax)**
 Email: **MSPS-2SA2023-TDS-I**

Due Date Requested: 11/5/2023
TAT Requested (days):
PO #:
WO #:
Project #: 24021758
SSOW#:

Lab PM: Cisneros, Roxanne
Carrier Tracking No(s):
State of Origin: West Virginia
Page 1 of 1
Job #: 240-194306-4
Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Y - Trizma
 Z - other (specify)
 Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefluid, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C Calcd/TDS	Total Number of Containers	Special Instructions/Note:
102423NMW14 (240-194306-9)	10/24/23	12:15 Eastern	Water	Water	X	X		1	Dominion
102423NMW6R (240-194306-10)	10/24/23	09:05 Eastern	Water	Water	X	X		1	Dominion
102423NMW12R (240-194306-11)	10/24/23	10:35 Eastern	Water	Water	X	X		1	Dominion
102423NMW7 (240-194306-12)	10/24/23	13:35 Eastern	Water	Water	X	X		1	Dominion

Analysis Requested:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: **Shirley Howard** Date/Time: **10/27/23 9:00** Company: **EEINC**
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:



Eurofins Cleveland
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

eurofins | Environment Testing



Client Information (Sub Contract Lab)
 Shipping/Receiving
 Lab PM: Cisneros, Roxanne
 E-Mail: roxanne.cisneros@el

Company
 Eurofins Environment Testing Northeast,
 Address: 301 Alpha Drive, RIDC Park,
 City: Pittsburgh
 State, Zip: PA, 15238
 Phone: 412-963-7058(Tel) 412-963-2468(Fax)
 Email:

Due Date Requested: 11/8/2023
TAT Requested (days):
PO #:
WO #:
Project #: 24021758
SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Other, etc.)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calcd/ TDS	Total Number of Containers	Special Instructions/Note:
102423NMMW5 (240-194306-1)	10/24/23	11:00 Eastern	Water	Water		X	X		1	Domination
102423NMMW8 (240-194306-2)	10/24/23	15:35 Eastern	Water	Water		X	X		1	Domination
102423NMMWFGDW6 (240-194306-3)	10/24/23	15:40 Eastern	Water	Water		X	X		1	Domination

Analysis Requested
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Y - Trizma
 Z - other (specify)

Accreditations Required
 State Program - West Virginia DEP

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Relinquished by: *Michelle Harris* Date/Time: 10/27/23 9:00
Relinquished by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____

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Relinquished by: _____ Date/Time: _____

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Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____
Relinquished by: _____ Date/Time: _____

Custody Seals Intact: _____
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:

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14

Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Cisneros, Roxanne Shipping/Receiving: roxanne.cisneros@et.eurolins.com Company: State Program - West Virginia DEP		Lab PM: Cisneros, Roxanne E-Mail: roxanne.cisneros@et.eurolins.com State of Origin: West Virginia Carrier Tracking No(s): 240-175856-1 Page: Page 1 of 1 Job #: 240-194306-2							
Address: 301 Alpha Drive, RIDC Park, Pittsburgh PA, 15238 Phone: 412-963-7058(Tel) 412-963-2468(Fax) Email:		Due Date Requested: 11/5/2023 TAT Requested (days): PO #: WO #: Project #: 24021758 SOW#:							
Project Name: MSPS-25A2023-TDS-G Site:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)							
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C_Calc'd TDS	Total Number of Containers	Special Instructions/Note:
102423NMWFGDW3 (240-194306-4)	10/24/23	12:00 Eastern	Water	Water	X	X	X	1	Dominion
102423NMWFGDW4 (240-194306-5)	10/24/23	13:20 Eastern	Water	Water	X	X	X	1	Dominion
102423NMWFGDW5 (240-194306-6)	10/24/23	14:30 Eastern	Water	Water	X	X	X	1	Dominion

Note: Since laboratory accreditations are subject to change, Eurolins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurolins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurolins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurolins Environment Testing North Central, LLC

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Special Instructions/QC Requirements:

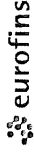
Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____
 Relinquished by: *[Signature]* Date/Time: 10/28/23 0945 Company: *[Signature]*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No
 Cooler Temperature(s) °C and Other Remarks:



Eurofins Cleveland

180 S. Van Buren Avenue
Barberton, OH 44203
Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Lab PM: Cisneros, Roxanne	Carrier Tracking No(s):	COC No: 240-175856.1
Shipping/Receiving		E-Mail: roxanne.cisneros@et.eurofinsus.com	State of Origin: West Virginia	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): State Program - West Virginia DEP		
Address: 301 Alpha Drive, RIDC Park, Pittsburgh State, Zip PA, 15238		Job #: 240-194306-3		
Phone 412-963-7058(Tel) 412-963-2468(Fax)		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
Email		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
Project Name: MSPS-2SA2023-TDS-F		Due Date Requested: 11/5/2023		
Site:		TAT Requested (days):		
PO #:		Analysis Requested		
WO #:		Field Filled Sample (Yes or No)		
Project #: 24021758		Perform MS/MSD (Yes or No)		
SSOW#:		2540C Calcd/ TDS		
Sample Identification - Client ID (Lab ID)		Total Number of Containers		
102423NMW10 (240-194306-7)	Sample Date 10/24/23	Sample Time 09:15 Eastern	Sample Type (C=Comp, G=grab) Water	Preservation Code: Water
102423NMW10 (240-194306-7DU)	10/24/23	09:15 Eastern	DU	Water
102423FBFIELDBLANK (240-194306-8)	10/24/23	10:10 Eastern	Water	Water
Special Instructions/Note:		Dominion		
		Dominion		
		Dominion		

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing North Central, LLC

Possible Hazard Identification
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

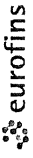
Primary Deliverable Rank: 2
 Method of Shipment:
 Date: _____
 Relinquished by: *Roxanne Cisneros* Date/Time: 10/27/23 9:00
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: Yes No
 Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks:



Eurofins Cleveland

180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab) Client Contact: 301 Alpha Drive, RIDC Park, Shipping/Receiving: Pittsburgh Company: Eurofins Environment Testing Northeast, PA, 15238 Address: 301 Alpha Drive, RIDC Park, City: Pittsburgh State, Zip: PA, 15238 Phone: 412-963-7058(Tel) 412-963-2468(Fax) Email:		Lab PM: Cisneros, Roxanne E-Mail: roxanne.cisneros@et.eurofins.com State of Origin: West Virginia Carrier Tracking No(s): 240-175856-1 Page 1 of 1 Job #: 240-194306-4
Due Date Requested: 11/5/2023 TAT Requested (days):		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:
Project Name: MSPS-2SA2023-TDS-I Site:	PO #: WO #: Project #: 24021758 SSOW#:	Analysis Requested
Sample ID (Lab ID) 102423NMW14 (240-194306-9) 102423NMW6R (240-194306-10) 102423NMW12R (240-194306-11) 102423NMW7 (240-194306-12)	Sample Date 10/24/23 10/24/23 10/24/23 10/24/23	Sample Time 12:15 Eastern 09:05 Eastern 10:35 Eastern 13:35 Eastern
Sample Type (C=comp, G=grab) Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
Preservation Code: Water Water Water Water	2540C Calcd/TDS X X X X	Total Number of Containers X 1 1 1 1
Special Instructions/Note: Dominion Dominion Dominion Dominion		Special Instructions/Note: Dominion Dominion Dominion Dominion
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC		
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)		
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		
Special Instructions/QC Requirements:		
Primary Deliverable Rank: 2		
Date: 10/27/23 Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by:	Date: 10/28/23 Received by: <i>[Signature]</i> Received by: Received by:	Date: <i>[Signature]</i> Received by: Received by: Received by:
Company: BEETIC Company: <i>[Signature]</i> Company:		Date/Time: <i>[Signature]</i> Date/Time: Date/Time:
Custody Seal No.: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-194306-1

Login Number: 194306

List Number: 2

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 10/28/23 03:33 PM

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





ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Hicks
Dominion Energy Services, Inc.
5000 Dominion Blvd
Glen Allen, Virginia 23060

Generated 12/7/2023 3:44:50 PM

JOB DESCRIPTION

MSPS-2SA2023-CCR-K

JOB NUMBER

240-194192-2

Eurofins Cleveland

Job Notes

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

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

Authorization

Roxanne Cisneros

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12/7/2023 3:44:50 PM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
roxanne.cisneros@et.eurofinsus.com
(615)301-5761



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	10
Tracer Carrier Summary	20
QC Sample Results	21
QC Association Summary	36
Lab Chronicle	41
Certification Summary	43
Chain of Custody	44
Receipt Checklists	59

Definitions/Glossary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Case Narrative

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Job ID: 240-194192-2

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-194192-2

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

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

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

Receipt

The samples were received on 10/25/2023 10:10 AM and 10/26/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 7 coolers at receipt time were 0.6°C, 1.1°C, 2.1°C, 3.5°C, 4.5°C, 4.6°C and 4.7°C

Metals

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

General Chemistry

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

Gas Flow Proportional Counter

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

Rad

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

Method Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
9056A	Anions, Ion Chromatography	SW846	EET CLE
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-194192-1	102323NMW22	Water	10/23/23 14:35	10/25/23 10:10
240-194192-2	102323NMWFGDW2	Water	10/23/23 16:50	10/25/23 10:10
240-194192-4	102323FDDUPLICATE	Water	10/23/23 14:45	10/25/23 10:10
240-194309-4	102423NMW10	Water	10/24/23 09:15	10/26/23 09:50
240-194309-5	102423FBFIELDBLANK	Water	10/24/23 10:10	10/26/23 09:50

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Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102323NMW22

Lab Sample ID: 240-194192-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.68	J	2.0	0.57	ug/L	1		6020B	Total Recoverable
Arsenic	0.88	J	5.0	0.75	ug/L	1		6020B	Total Recoverable
Barium	290		5.0	2.2	ug/L	1		6020B	Total Recoverable
Cadmium	0.21	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Calcium	110000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.34	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	9.6		8.0	1.7	ug/L	1		6020B	Total Recoverable
Selenium	1.2	J	5.0	0.89	ug/L	1		6020B	Total Recoverable
Thallium	1.1		1.0	0.20	ug/L	1		6020B	Total Recoverable
Chloride	0.59	J	1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.027	J	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	22		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 102323NMWFGDW2

Lab Sample ID: 240-194192-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	250		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	54000	F1	1000	250	ug/L	1		6020B	Total Recoverable
Lithium	8.3		8.0	1.7	ug/L	1		6020B	Total Recoverable
Thallium	0.63	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Chloride	0.64	J	1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.063		0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	41		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 102323FDDUPLICATE

Lab Sample ID: 240-194192-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	300		5.0	2.2	ug/L	1		6020B	Total Recoverable
Beryllium	0.66	J	1.0	0.62	ug/L	1		6020B	Total Recoverable
Calcium	110000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.25	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	9.5		8.0	1.7	ug/L	1		6020B	Total Recoverable
Molybdenum	1.1	J	5.0	1.1	ug/L	1		6020B	Total Recoverable
Selenium	1.2	J	5.0	0.89	ug/L	1		6020B	Total Recoverable
Thallium	0.87	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Chloride	0.68	J	1.0	0.13	mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102323FDDUPLICATE (Continued)

Lab Sample ID: 240-194192-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.042	J	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	24		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 102423NMW10

Lab Sample ID: 240-194309-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	170		5.0	2.2	ug/L	1		6020B	Total Recoverable
Cadmium	0.42	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Calcium	5400		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	2.1		1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	2.3	J	8.0	1.7	ug/L	1		6020B	Total Recoverable
Thallium	0.73	J	1.0	0.20	ug/L	1		6020B	Total Recoverable
Chloride	0.56	J	1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.036	J	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	12		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 102423FBFIELDBLANK

Lab Sample ID: 240-194309-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102323NMW22

Lab Sample ID: 240-194192-1

Date Collected: 10/23/23 14:35

Matrix: Water

Date Received: 10/25/23 10:10

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/26/23 14:00	10/27/23 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.68	J	2.0	0.57	ug/L		10/26/23 14:00	10/27/23 13:07	1
Arsenic	0.88	J	5.0	0.75	ug/L		10/26/23 14:00	10/27/23 13:07	1
Barium	290		5.0	2.2	ug/L		10/26/23 14:00	10/27/23 13:07	1
Beryllium	<0.62		1.0	0.62	ug/L		10/26/23 14:00	10/27/23 13:07	1
Cadmium	0.21	J	1.0	0.20	ug/L		10/26/23 14:00	10/27/23 13:07	1
Calcium	110000		1000	250	ug/L		10/26/23 14:00	10/27/23 13:07	1
Chromium	<1.2		5.0	1.2	ug/L		10/26/23 14:00	10/27/23 13:07	1
Cobalt	0.34	J	1.0	0.19	ug/L		10/26/23 14:00	10/27/23 13:07	1
Lead	<0.45		1.0	0.45	ug/L		10/26/23 14:00	10/27/23 13:07	1
Lithium	9.6		8.0	1.7	ug/L		10/26/23 14:00	10/27/23 13:07	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/26/23 14:00	10/27/23 13:07	1
Selenium	1.2	J	5.0	0.89	ug/L		10/26/23 14:00	10/27/23 13:07	1
Thallium	1.1		1.0	0.20	ug/L		10/26/23 14:00	10/27/23 13:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/26/23 14:00	10/27/23 14:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	0.59	J	1.0	0.13	mg/L			10/28/23 15:36	1
Fluoride (SW846 9056A)	0.027	J	0.050	0.024	mg/L			10/28/23 15:36	1
Sulfate (SW846 9056A)	22		1.0	0.35	mg/L			10/28/23 15:36	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.137		0.0832	0.0841	1.00	0.111	pCi/L	10/27/23 10:31	11/28/23 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					10/27/23 10:31	11/28/23 07:28	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.148	U	0.379	0.379	1.00	0.662	pCi/L	10/27/23 10:34	11/17/23 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					10/27/23 10:34	11/17/23 15:11	1
Y Carrier	81.1		30 - 110					10/27/23 10:34	11/17/23 15:11	1

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102323NMW22

Lab Sample ID: 240-194192-1

Date Collected: 10/23/23 14:35

Matrix: Water

Date Received: 10/25/23 10:10

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.285	U	0.388	0.388	5.00	0.662	pCi/L		12/07/23 14:35	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102323NMWFGDW2

Lab Sample ID: 240-194192-2

Date Collected: 10/23/23 16:50

Matrix: Water

Date Received: 10/25/23 10:10

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/26/23 14:00	10/27/23 09:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/26/23 14:00	10/27/23 12:30	1
Arsenic	<0.75		5.0	0.75	ug/L		10/26/23 14:00	10/27/23 12:30	1
Barium	250		5.0	2.2	ug/L		10/26/23 14:00	10/27/23 12:30	1
Beryllium	<0.62		1.0	0.62	ug/L		10/26/23 14:00	10/27/23 12:30	1
Cadmium	<0.20		1.0	0.20	ug/L		10/26/23 14:00	10/27/23 12:30	1
Calcium	54000	F1	1000	250	ug/L		10/26/23 14:00	10/27/23 12:30	1
Chromium	<1.2		5.0	1.2	ug/L		10/26/23 14:00	10/27/23 12:30	1
Cobalt	<0.19		1.0	0.19	ug/L		10/26/23 14:00	10/27/23 12:30	1
Lead	<0.45		1.0	0.45	ug/L		10/26/23 14:00	10/27/23 12:30	1
Lithium	8.3		8.0	1.7	ug/L		10/26/23 14:00	10/27/23 12:30	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/26/23 14:00	10/27/23 12:30	1
Selenium	<0.89		5.0	0.89	ug/L		10/26/23 14:00	10/27/23 12:30	1
Thallium	0.63	J	1.0	0.20	ug/L		10/26/23 14:00	10/27/23 12:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/26/23 14:00	10/27/23 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	0.64	J	1.0	0.13	mg/L			10/28/23 10:32	1
Fluoride (SW846 9056A)	0.063		0.050	0.024	mg/L			10/28/23 10:32	1
Sulfate (SW846 9056A)	41		1.0	0.35	mg/L			10/28/23 10:32	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124		0.0759	0.0768	1.00	0.0977	pCi/L	10/27/23 10:31	11/28/23 07:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					10/27/23 10:31	11/28/23 07:28	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.618		0.357	0.361	1.00	0.510	pCi/L	10/27/23 10:34	11/17/23 15:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					10/27/23 10:34	11/17/23 15:11	1
Y Carrier	83.7		30 - 110					10/27/23 10:34	11/17/23 15:11	1

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102323NMWFGDW2

Lab Sample ID: 240-194192-2

Date Collected: 10/23/23 16:50

Matrix: Water

Date Received: 10/25/23 10:10

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.742		0.365	0.369	5.00	0.510	pCi/L		12/07/23 14:35	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102323FDDUPLICATE

Lab Sample ID: 240-194192-4

Date Collected: 10/23/23 14:45

Matrix: Water

Date Received: 10/25/23 10:10

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		11/09/23 14:00	11/10/23 10:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		11/09/23 14:00	11/10/23 16:54	1
Arsenic	<0.75		5.0	0.75	ug/L		11/09/23 14:00	11/10/23 16:54	1
Barium	300		5.0	2.2	ug/L		11/09/23 14:00	11/10/23 16:54	1
Beryllium	0.66	J	1.0	0.62	ug/L		11/09/23 14:00	11/10/23 16:54	1
Cadmium	<0.20		1.0	0.20	ug/L		11/09/23 14:00	11/10/23 16:54	1
Calcium	110000		1000	250	ug/L		11/09/23 14:00	11/10/23 16:54	1
Chromium	<1.2		5.0	1.2	ug/L		11/09/23 14:00	11/10/23 16:54	1
Cobalt	0.25	J	1.0	0.19	ug/L		11/09/23 14:00	11/10/23 16:54	1
Lead	<0.45		1.0	0.45	ug/L		11/09/23 14:00	11/10/23 16:54	1
Lithium	9.5		8.0	1.7	ug/L		11/09/23 14:00	11/10/23 16:54	1
Molybdenum	1.1	J	5.0	1.1	ug/L		11/09/23 14:00	11/10/23 16:54	1
Selenium	1.2	J	5.0	0.89	ug/L		11/09/23 14:00	11/10/23 16:54	1
Thallium	0.87	J	1.0	0.20	ug/L		11/09/23 14:00	11/10/23 16:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		11/09/23 14:00	11/10/23 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	0.68	J	1.0	0.13	mg/L			11/18/23 19:50	1
Fluoride (SW846 9056A)	0.042	J	0.050	0.024	mg/L			11/18/23 19:50	1
Sulfate (SW846 9056A)	24		1.0	0.35	mg/L			11/18/23 19:50	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.249	U	0.228	0.229	1.00	0.357	pCi/L	11/09/23 10:07	12/07/23 08:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					11/09/23 10:07	12/07/23 08:28	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	1.54		0.417	0.440	1.00	0.432	pCi/L	11/09/23 10:12	12/06/23 15:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					11/09/23 10:12	12/06/23 15:56	1
Y Carrier	81.9		30 - 110					11/09/23 10:12	12/06/23 15:56	1

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102323FDDUPLICATE

Lab Sample ID: 240-194192-4

Date Collected: 10/23/23 14:45

Matrix: Water

Date Received: 10/25/23 10:10

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.79		0.475	0.496	5.00	0.432	pCi/L		12/07/23 14:35	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102423NMW10

Lab Sample ID: 240-194309-4

Date Collected: 10/24/23 09:15

Matrix: Water

Date Received: 10/26/23 09:50

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/27/23 14:00	10/30/23 08:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/27/23 14:00	10/30/23 15:40	1
Arsenic	<0.75		5.0	0.75	ug/L		10/27/23 14:00	10/30/23 15:40	1
Barium	170		5.0	2.2	ug/L		10/27/23 14:00	10/30/23 15:40	1
Beryllium	<0.62		1.0	0.62	ug/L		10/27/23 14:00	10/30/23 15:40	1
Cadmium	0.42	J	1.0	0.20	ug/L		10/27/23 14:00	10/30/23 15:40	1
Calcium	5400		1000	250	ug/L		10/27/23 14:00	10/30/23 15:40	1
Chromium	<1.2		5.0	1.2	ug/L		10/27/23 14:00	10/30/23 15:40	1
Cobalt	2.1		1.0	0.19	ug/L		10/27/23 14:00	10/30/23 15:40	1
Lead	<0.45		1.0	0.45	ug/L		10/27/23 14:00	10/30/23 15:40	1
Lithium	2.3	J	8.0	1.7	ug/L		10/27/23 14:00	10/30/23 15:40	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/27/23 14:00	10/30/23 15:40	1
Selenium	<0.89		5.0	0.89	ug/L		10/27/23 14:00	10/30/23 15:40	1
Thallium	0.73	J	1.0	0.20	ug/L		10/27/23 14:00	10/30/23 15:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/27/23 14:00	10/30/23 13:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	0.56	J	1.0	0.13	mg/L			11/17/23 06:02	1
Fluoride (SW846 9056A)	0.036	J	0.050	0.024	mg/L			11/17/23 06:02	1
Sulfate (SW846 9056A)	12		1.0	0.35	mg/L			11/17/23 06:02	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.186		0.0976	0.0990	1.00	0.124	pCi/L	11/01/23 10:50	11/30/23 09:16	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	89.1		30 - 110					11/01/23 10:50	11/30/23 09:16	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.975		0.419	0.428	1.00	0.559	pCi/L	11/01/23 11:04	11/21/23 11:48	1
<i>Carrier</i>	<i>%Yield</i>	<i>Qualifier</i>	<i>Limits</i>					<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Ba Carrier</i>	89.1		30 - 110					11/01/23 11:04	11/21/23 11:48	1
<i>Y Carrier</i>	85.2		30 - 110					11/01/23 11:04	11/21/23 11:48	1

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102423NMW10

Lab Sample ID: 240-194309-4

Date Collected: 10/24/23 09:15

Matrix: Water

Date Received: 10/26/23 09:50

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.16		0.430	0.439	5.00	0.559	pCi/L		11/30/23 12:53	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102423FBFIELDBLANK

Lab Sample ID: 240-194309-5

Date Collected: 10/24/23 10:10

Matrix: Water

Date Received: 10/26/23 09:50

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/27/23 14:00	10/30/23 10:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/27/23 14:00	10/30/23 16:14	1
Arsenic	<0.75		5.0	0.75	ug/L		10/27/23 14:00	10/30/23 16:14	1
Barium	<2.2		5.0	2.2	ug/L		10/27/23 14:00	10/30/23 16:14	1
Beryllium	<0.62		1.0	0.62	ug/L		10/27/23 14:00	10/30/23 16:14	1
Cadmium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 16:14	1
Calcium	<250		1000	250	ug/L		10/27/23 14:00	10/30/23 16:14	1
Chromium	<1.2		5.0	1.2	ug/L		10/27/23 14:00	10/30/23 16:14	1
Cobalt	<0.19		1.0	0.19	ug/L		10/27/23 14:00	10/30/23 16:14	1
Lead	<0.45		1.0	0.45	ug/L		10/27/23 14:00	10/30/23 16:14	1
Lithium	<1.7		8.0	1.7	ug/L		10/27/23 14:00	10/30/23 16:14	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/27/23 14:00	10/30/23 16:14	1
Selenium	<0.89		5.0	0.89	ug/L		10/27/23 14:00	10/30/23 16:14	1
Thallium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 16:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/27/23 14:00	10/30/23 14:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	<0.13		1.0	0.13	mg/L			11/17/23 09:39	1
Fluoride (SW846 9056A)	<0.024		0.050	0.024	mg/L			11/17/23 09:39	1
Sulfate (SW846 9056A)	<0.35		1.0	0.35	mg/L			11/17/23 09:39	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-226	0.00403	U	0.0697	0.0697	1.00	0.137	pCi/L	11/01/23 10:50	11/30/23 09:17	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					11/01/23 10:50	11/30/23 09:17	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
			Uncert.	Uncert.						
			(2σ+/-)	(2σ+/-)						
Radium-228	-0.00964	U	0.308	0.308	1.00	0.581	pCi/L	11/01/23 11:04	11/21/23 11:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.2		30 - 110					11/01/23 11:04	11/21/23 11:48	1
Y Carrier	80.0		30 - 110					11/01/23 11:04	11/21/23 11:48	1

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102423FBFIELDBLANK

Lab Sample ID: 240-194309-5

Date Collected: 10/24/23 10:10

Matrix: Water

Date Received: 10/26/23 09:50

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.00403	U	0.316	0.316	5.00	0.581	pCi/L		11/30/23 12:53	1

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Tracer/Carrier Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	
240-194192-1	102323NMW22	91.9	
240-194192-2	102323NMWFGDW2	89.7	
240-194192-2 MS	102323NMWFGDW2	89.2	
240-194192-2 MSD	102323NMWFGDW2	92.2	
240-194192-4	102323FDDUPLICATE	100	
240-194192-4 DU	102323FDDUPLICATE	98.0	
240-194309-4	102423NMW10	89.1	
240-194309-4 MS	102423NMW10	90.1	
240-194309-4 MSD	102423NMW10	87.9	
240-194309-5	102423FBFIELDBLANK	86.2	
LCS 160-633887/2-A	Lab Control Sample	102	
LCS 160-634732/2-A	Lab Control Sample	95.3	
LCS 160-636139/2-A	Lab Control Sample	97.8	
MB 160-633887/1-A	Method Blank	101	
MB 160-634732/1-A	Method Blank	96.5	
MB 160-636139/1-A	Method Blank	101	

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
240-194192-1	102323NMW22	91.9	81.1
240-194192-2	102323NMWFGDW2	89.7	83.7
240-194192-2 MS	102323NMWFGDW2	89.2	77.4
240-194192-2 MSD	102323NMWFGDW2	92.2	82.2
240-194192-4	102323FDDUPLICATE	100	81.9
240-194192-4 DU	102323FDDUPLICATE	98.0	83.0
240-194309-4	102423NMW10	89.1	85.2
240-194309-4 MS	102423NMW10	90.1	84.9
240-194309-4 MSD	102423NMW10	87.9	80.4
240-194309-5	102423FBFIELDBLANK	86.2	80.0
LCS 160-633888/2-A	Lab Control Sample	102	80.4
LCS 160-634743/2-A	Lab Control Sample	95.3	81.9
LCS 160-636140/2-A	Lab Control Sample	97.8	78.5
MB 160-633888/1-A	Method Blank	101	72.5
MB 160-634743/1-A	Method Blank	96.5	84.5
MB 160-636140/1-A	Method Blank	101	80.4

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-592401/1-A
Matrix: Water
Analysis Batch: 592533

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/26/23 14:00	10/27/23 08:53	1

Lab Sample ID: LCS 240-592401/2-A
Matrix: Water
Analysis Batch: 592533

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1110		ug/L		111	80 - 120

Lab Sample ID: 240-194192-2 MS
Matrix: Water
Analysis Batch: 592533

Client Sample ID: 102323NMWFGDW2
Prep Type: Total Recoverable
Prep Batch: 592401

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<57		1000	977		ug/L		98	75 - 125

Lab Sample ID: 240-194192-2 MSD
Matrix: Water
Analysis Batch: 592533

Client Sample ID: 102323NMWFGDW2
Prep Type: Total Recoverable
Prep Batch: 592401

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<57		1000	1020		ug/L		102	75 - 125	4	20

Lab Sample ID: MB 240-592562/1-A
Matrix: Water
Analysis Batch: 592658

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/27/23 14:00	10/30/23 07:30	1

Lab Sample ID: LCS 240-592562/2-A
Matrix: Water
Analysis Batch: 592658

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1050		ug/L		105	80 - 120

Lab Sample ID: 240-194309-4 MS
Matrix: Water
Analysis Batch: 592658

Client Sample ID: 102423NMW10
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<57		1000	1090		ug/L		109	75 - 125

Lab Sample ID: 240-194309-4 MSD
Matrix: Water
Analysis Batch: 592658

Client Sample ID: 102423NMW10
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	<57		1000	988		ug/L		99	75 - 125	10	20

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-594066/1-A
Matrix: Water
Analysis Batch: 594207

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57	^+	100	57	ug/L		11/09/23 14:00	11/10/23 08:09	1

Lab Sample ID: LCS 240-594066/2-A
Matrix: Water
Analysis Batch: 594207

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1060	^+	ug/L		106	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-592401/1-A
Matrix: Water
Analysis Batch: 592631

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592401

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/26/23 14:00	10/27/23 12:25	1
Arsenic	<0.75		5.0	0.75	ug/L		10/26/23 14:00	10/27/23 12:25	1
Barium	<2.2		5.0	2.2	ug/L		10/26/23 14:00	10/27/23 12:25	1
Beryllium	<0.62		1.0	0.62	ug/L		10/26/23 14:00	10/27/23 12:25	1
Cadmium	<0.20		1.0	0.20	ug/L		10/26/23 14:00	10/27/23 12:25	1
Calcium	<250		1000	250	ug/L		10/26/23 14:00	10/27/23 12:25	1
Chromium	<1.2		5.0	1.2	ug/L		10/26/23 14:00	10/27/23 12:25	1
Cobalt	<0.19		1.0	0.19	ug/L		10/26/23 14:00	10/27/23 12:25	1
Lead	<0.45		1.0	0.45	ug/L		10/26/23 14:00	10/27/23 12:25	1
Lithium	<1.7		8.0	1.7	ug/L		10/26/23 14:00	10/27/23 12:25	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/26/23 14:00	10/27/23 12:25	1
Selenium	<0.89		5.0	0.89	ug/L		10/26/23 14:00	10/27/23 12:25	1
Thallium	<0.20		1.0	0.20	ug/L		10/26/23 14:00	10/27/23 12:25	1

Lab Sample ID: LCS 240-592401/3-A
Matrix: Water
Analysis Batch: 592631

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592401

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	102		ug/L		102	80 - 120
Arsenic	1000	959		ug/L		96	80 - 120
Barium	1000	940		ug/L		94	80 - 120
Beryllium	500	487		ug/L		97	80 - 120
Cadmium	500	485		ug/L		97	80 - 120
Calcium	25000	21500		ug/L		86	80 - 120
Chromium	500	480		ug/L		96	80 - 120
Cobalt	500	467		ug/L		93	80 - 120
Lead	500	489		ug/L		98	80 - 120
Lithium	500	486		ug/L		97	80 - 120
Molybdenum	500	481		ug/L		96	80 - 120
Selenium	1000	989		ug/L		99	80 - 120
Thallium	1000	953		ug/L		95	80 - 120

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

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

Lab Sample ID: 240-194192-2 MS
Matrix: Water
Analysis Batch: 592631

Client Sample ID: 102323NMWFGDW2
Prep Type: Total Recoverable
Prep Batch: 592401

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.57		100	101		ug/L		101	80 - 120
Arsenic	<0.75		1000	948		ug/L		95	80 - 120
Barium	250		1000	1180		ug/L		92	80 - 120
Beryllium	<0.62		500	450		ug/L		90	80 - 120
Cadmium	<0.20		500	475		ug/L		95	80 - 120
Calcium	54000	F1	25000	74700		ug/L		82	80 - 120
Chromium	<1.2		500	469		ug/L		94	80 - 120
Cobalt	<0.19		500	478		ug/L		96	80 - 120
Lead	<0.45		500	475		ug/L		95	80 - 120
Lithium	8.3		500	471		ug/L		93	80 - 120
Molybdenum	<1.1		500	479		ug/L		96	80 - 120
Selenium	<0.89		1000	965		ug/L		97	80 - 120
Thallium	0.63	J	1000	923		ug/L		92	80 - 120

Lab Sample ID: 240-194192-2 MSD
Matrix: Water
Analysis Batch: 592631

Client Sample ID: 102323NMWFGDW2
Prep Type: Total Recoverable
Prep Batch: 592401

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.57		100	102		ug/L		102	80 - 120	1	20
Arsenic	<0.75		1000	825		ug/L		83	80 - 120	14	20
Barium	250		1000	1070		ug/L		82	80 - 120	9	20
Beryllium	<0.62		500	403		ug/L		81	80 - 120	11	20
Cadmium	<0.20		500	423		ug/L		85	80 - 120	12	20
Calcium	54000	F1	25000	73800	F1	ug/L		78	80 - 120	1	20
Chromium	<1.2		500	409		ug/L		82	80 - 120	14	20
Cobalt	<0.19		500	417		ug/L		83	80 - 120	14	20
Lead	<0.45		500	424		ug/L		85	80 - 120	11	20
Lithium	8.3		500	411		ug/L		81	80 - 120	14	20
Molybdenum	<1.1		500	423		ug/L		85	80 - 120	12	20
Selenium	<0.89		1000	838		ug/L		84	80 - 120	14	20
Thallium	0.63	J	1000	826		ug/L		83	80 - 120	11	20

Lab Sample ID: MB 240-592562/1-A
Matrix: Water
Analysis Batch: 592816

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/27/23 14:00	10/30/23 15:33	1
Arsenic	<0.75		5.0	0.75	ug/L		10/27/23 14:00	10/30/23 15:33	1
Barium	<2.2		5.0	2.2	ug/L		10/27/23 14:00	10/30/23 15:33	1
Beryllium	<0.62		1.0	0.62	ug/L		10/27/23 14:00	10/30/23 15:33	1
Cadmium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 15:33	1
Calcium	<250		1000	250	ug/L		10/27/23 14:00	10/30/23 15:33	1
Chromium	<1.2		5.0	1.2	ug/L		10/27/23 14:00	10/30/23 15:33	1
Cobalt	<0.19		1.0	0.19	ug/L		10/27/23 14:00	10/30/23 15:33	1
Lead	<0.45		1.0	0.45	ug/L		10/27/23 14:00	10/30/23 15:33	1
Lithium	<1.7		8.0	1.7	ug/L		10/27/23 14:00	10/30/23 15:33	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/27/23 14:00	10/30/23 15:33	1

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

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

Lab Sample ID: MB 240-592562/1-A
Matrix: Water
Analysis Batch: 592816

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.89		5.0	0.89	ug/L		10/27/23 14:00	10/30/23 15:33	1
Thallium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 15:33	1

Lab Sample ID: LCS 240-592562/4-A
Matrix: Water
Analysis Batch: 592816

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	101		ug/L		101	80 - 120
Arsenic	1000	907		ug/L		91	80 - 120
Barium	1000	946		ug/L		95	80 - 120
Beryllium	500	471		ug/L		94	80 - 120
Cadmium	500	477		ug/L		95	80 - 120
Calcium	25000	22800		ug/L		91	80 - 120
Chromium	500	470		ug/L		94	80 - 120
Cobalt	500	461		ug/L		92	80 - 120
Lead	500	474		ug/L		95	80 - 120
Lithium	500	474		ug/L		95	80 - 120
Molybdenum	500	465		ug/L		93	80 - 120
Selenium	1000	910		ug/L		91	80 - 120
Thallium	1000	961		ug/L		96	80 - 120

Lab Sample ID: 240-194309-4 MS
Matrix: Water
Analysis Batch: 592816

Client Sample ID: 102423NMW10
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.57		100	99.2		ug/L		99	80 - 120
Arsenic	<0.75		1000	877		ug/L		88	80 - 120
Barium	170		1000	1080		ug/L		92	80 - 120
Beryllium	<0.62		500	456		ug/L		91	80 - 120
Cadmium	0.42	J	500	469		ug/L		94	80 - 120
Calcium	5400		25000	27200		ug/L		87	80 - 120
Chromium	<1.2		500	460		ug/L		92	80 - 120
Cobalt	2.1		500	437		ug/L		87	80 - 120
Lead	<0.45		500	454		ug/L		91	80 - 120
Lithium	2.3	J	500	458		ug/L		91	80 - 120
Molybdenum	<1.1		500	451		ug/L		90	80 - 120
Selenium	<0.89		1000	882		ug/L		88	80 - 120
Thallium	0.73	J	1000	934		ug/L		93	80 - 120

Lab Sample ID: 240-194309-4 MSD
Matrix: Water
Analysis Batch: 592816

Client Sample ID: 102423NMW10
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.57		100	98.8		ug/L		99	80 - 120	0	20
Arsenic	<0.75		1000	893		ug/L		89	80 - 120	2	20
Barium	170		1000	1110		ug/L		94	80 - 120	2	20

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

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

Lab Sample ID: 240-194309-4 MSD
Matrix: Water
Analysis Batch: 592816

Client Sample ID: 102423NMW10
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.62		500	467		ug/L		93	80 - 120	2	20
Cadmium	0.42	J	500	475		ug/L		95	80 - 120	1	20
Calcium	5400		25000	28300		ug/L		92	80 - 120	4	20
Chromium	<1.2		500	468		ug/L		94	80 - 120	2	20
Cobalt	2.1		500	453		ug/L		90	80 - 120	4	20
Lead	<0.45		500	470		ug/L		94	80 - 120	3	20
Lithium	2.3	J	500	469		ug/L		93	80 - 120	2	20
Molybdenum	<1.1		500	465		ug/L		93	80 - 120	3	20
Selenium	<0.89		1000	893		ug/L		89	80 - 120	1	20
Thallium	0.73	J	1000	953		ug/L		95	80 - 120	2	20

Lab Sample ID: MB 240-594066/1-A
Matrix: Water
Analysis Batch: 594259

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 594066

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		11/09/23 14:00	11/10/23 16:32	1
Arsenic	<0.75		5.0	0.75	ug/L		11/09/23 14:00	11/10/23 16:32	1
Barium	<2.2		5.0	2.2	ug/L		11/09/23 14:00	11/10/23 16:32	1
Beryllium	<0.62		1.0	0.62	ug/L		11/09/23 14:00	11/10/23 16:32	1
Cadmium	<0.20		1.0	0.20	ug/L		11/09/23 14:00	11/10/23 16:32	1
Calcium	<250		1000	250	ug/L		11/09/23 14:00	11/10/23 16:32	1
Chromium	<1.2		5.0	1.2	ug/L		11/09/23 14:00	11/10/23 16:32	1
Cobalt	<0.19		1.0	0.19	ug/L		11/09/23 14:00	11/10/23 16:32	1
Lead	<0.45		1.0	0.45	ug/L		11/09/23 14:00	11/10/23 16:32	1
Lithium	<1.7		8.0	1.7	ug/L		11/09/23 14:00	11/10/23 16:32	1
Molybdenum	<1.1		5.0	1.1	ug/L		11/09/23 14:00	11/10/23 16:32	1
Selenium	<0.89		5.0	0.89	ug/L		11/09/23 14:00	11/10/23 16:32	1
Thallium	<0.20		1.0	0.20	ug/L		11/09/23 14:00	11/10/23 16:32	1

Lab Sample ID: LCS 240-594066/4-A
Matrix: Water
Analysis Batch: 594259

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 594066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	106		ug/L		106	80 - 120
Arsenic	1000	934		ug/L		93	80 - 120
Barium	1000	986		ug/L		99	80 - 120
Beryllium	500	476		ug/L		95	80 - 120
Cadmium	500	494		ug/L		99	80 - 120
Calcium	25000	24400		ug/L		98	80 - 120
Chromium	500	501		ug/L		100	80 - 120
Cobalt	500	464		ug/L		93	80 - 120
Lead	500	492		ug/L		98	80 - 120
Lithium	500	490		ug/L		98	80 - 120
Molybdenum	500	478		ug/L		96	80 - 120
Selenium	1000	934		ug/L		93	80 - 120
Thallium	1000	993		ug/L		99	80 - 120

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

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

Lab Sample ID: 240-194943-H-3-F MS
Matrix: Water
Analysis Batch: 594259

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 594066

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier	Added	Result	Qualifier				Limits	
Antimony	<0.57		100	106		ug/L		106	80 - 120	
Arsenic	1.8	J	1000	969		ug/L		97	80 - 120	
Barium	19		1000	987		ug/L		97	80 - 120	
Beryllium	<0.62		500	453		ug/L		91	80 - 120	
Cadmium	<0.20		500	479		ug/L		96	80 - 120	
Calcium	2400		25000	26200		ug/L		95	80 - 120	
Chromium	<1.2		500	489		ug/L		98	80 - 120	
Cobalt	<0.19		500	473		ug/L		95	80 - 120	
Lead	<0.45		500	480		ug/L		96	80 - 120	
Lithium	16		500	495		ug/L		96	80 - 120	
Molybdenum	32		500	526		ug/L		99	80 - 120	
Selenium	<0.89		1000	930		ug/L		93	80 - 120	
Thallium	<0.20		1000	946		ug/L		95	80 - 120	

Lab Sample ID: 240-194943-H-3-G MSD
Matrix: Water
Analysis Batch: 594259

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 594066

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec		RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	Limit		
Antimony	<0.57		100	108		ug/L		108	80 - 120	2	20	
Arsenic	1.8	J	1000	954		ug/L		95	80 - 120	2	20	
Barium	19		1000	1010		ug/L		99	80 - 120	2	20	
Beryllium	<0.62		500	466		ug/L		93	80 - 120	3	20	
Cadmium	<0.20		500	484		ug/L		97	80 - 120	1	20	
Calcium	2400		25000	26300		ug/L		96	80 - 120	1	20	
Chromium	<1.2		500	492		ug/L		98	80 - 120	1	20	
Cobalt	<0.19		500	470		ug/L		94	80 - 120	0	20	
Lead	<0.45		500	483		ug/L		97	80 - 120	1	20	
Lithium	16		500	507		ug/L		98	80 - 120	3	20	
Molybdenum	32		500	524		ug/L		99	80 - 120	0	20	
Selenium	<0.89		1000	957		ug/L		96	80 - 120	3	20	
Thallium	<0.20		1000	943		ug/L		94	80 - 120	0	20	

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-592417/1-A
Matrix: Water
Analysis Batch: 592583

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592417

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
Mercury	<0.13		0.20	0.13	ug/L		10/26/23 14:00	10/27/23 14:07		1

Lab Sample ID: LCS 240-592417/2-A
Matrix: Water
Analysis Batch: 592583

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592417

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Mercury	5.00	5.15		ug/L		103	80 - 120	

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 240-194192-2 MS
Matrix: Water
Analysis Batch: 592583

Client Sample ID: 102323NMWFGDW2
Prep Type: Total/NA
Prep Batch: 592417

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.13		1.00	1.08		ug/L		108	80 - 120

Lab Sample ID: 240-194192-2 MSD
Matrix: Water
Analysis Batch: 592583

Client Sample ID: 102323NMWFGDW2
Prep Type: Total/NA
Prep Batch: 592417

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.13		1.00	1.02		ug/L		102	80 - 120	5	20

Lab Sample ID: MB 240-592567/1-A
Matrix: Water
Analysis Batch: 592771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/27/23 14:00	10/30/23 13:46	1

Lab Sample ID: LCS 240-592567/2-A
Matrix: Water
Analysis Batch: 592771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	5.00	5.09		ug/L		102	80 - 120

Lab Sample ID: 240-194309-4 MS
Matrix: Water
Analysis Batch: 592771

Client Sample ID: 102423NMW10
Prep Type: Total/NA
Prep Batch: 592567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	<0.13		1.00	1.04		ug/L		104	80 - 120

Lab Sample ID: 240-194309-4 MSD
Matrix: Water
Analysis Batch: 592771

Client Sample ID: 102423NMW10
Prep Type: Total/NA
Prep Batch: 592567

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Mercury	<0.13		1.00	0.962		ug/L		96	80 - 120	8	20

Lab Sample ID: MB 240-594067/1-A
Matrix: Water
Analysis Batch: 594260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 594067

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		11/09/23 14:00	11/10/23 13:29	1

Lab Sample ID: LCS 240-594067/2-A
Matrix: Water
Analysis Batch: 594260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 594067

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	5.00	5.48		ug/L		110	80 - 120

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 240-195051-A-8-E MS
Matrix: Water
Analysis Batch: 594260

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 594067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.13		1.00	1.13		ug/L		113	80 - 120

Lab Sample ID: 240-195051-A-8-F MSD
Matrix: Water
Analysis Batch: 594260

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 594067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.13		1.00	1.05		ug/L		105	80 - 120	7	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-592435/3
Matrix: Water
Analysis Batch: 592435

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.13		1.0	0.13	mg/L			10/28/23 09:49	1
Fluoride	<0.024		0.050	0.024	mg/L			10/28/23 09:49	1
Sulfate	<0.35		1.0	0.35	mg/L			10/28/23 09:49	1

Lab Sample ID: LCS 240-592435/4
Matrix: Water
Analysis Batch: 592435

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	51.3		mg/L		103	90 - 110
Fluoride	2.50	2.70		mg/L		108	90 - 110
Sulfate	50.0	53.1		mg/L		106	90 - 110

Lab Sample ID: 240-194192-1 MS
Matrix: Water
Analysis Batch: 592435

Client Sample ID: 102323NMW22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.59	J	50.0	48.5		mg/L		96	80 - 120
Fluoride	0.027	J	2.50	2.54		mg/L		101	80 - 120
Sulfate	22		50.0	70.7		mg/L		97	80 - 120

Lab Sample ID: 240-194192-1 MSD
Matrix: Water
Analysis Batch: 592435

Client Sample ID: 102323NMW22
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	0.59	J	50.0	49.2		mg/L		97	80 - 120	1	15
Fluoride	0.027	J	2.50	2.56		mg/L		101	80 - 120	1	15
Sulfate	22		50.0	71.6		mg/L		99	80 - 120	1	15

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: 240-194192-2 MS
Matrix: Water
Analysis Batch: 592435

Client Sample ID: 102323NMWFGDW2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.64	J	50.0	49.6		mg/L		98	80 - 120
Fluoride	0.063		2.50	2.66		mg/L		104	80 - 120
Sulfate	41		50.0	89.9		mg/L		98	80 - 120

Lab Sample ID: 240-194192-2 MSD
Matrix: Water
Analysis Batch: 592435

Client Sample ID: 102323NMWFGDW2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	0.64	J	50.0	50.7		mg/L		100	80 - 120	2	15
Fluoride	0.063		2.50	2.72		mg/L		106	80 - 120	2	15
Sulfate	41		50.0	90.9		mg/L		100	80 - 120	1	15

Lab Sample ID: MB 240-594905/3
Matrix: Water
Analysis Batch: 594905

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.13		1.0	0.13	mg/L			11/16/23 23:32	1
Fluoride	<0.024		0.050	0.024	mg/L			11/16/23 23:32	1
Sulfate	<0.35		1.0	0.35	mg/L			11/16/23 23:32	1

Lab Sample ID: LCS 240-594905/4
Matrix: Water
Analysis Batch: 594905

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	47.4		mg/L		95	90 - 110
Fluoride	2.50	2.46		mg/L		98	90 - 110
Sulfate	50.0	49.1		mg/L		98	90 - 110

Lab Sample ID: 240-194309-4 MS
Matrix: Water
Analysis Batch: 594905

Client Sample ID: 102423NMW10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.56	J	50.0	50.5		mg/L		100	80 - 120
Fluoride	0.036	J	2.50	2.52		mg/L		100	80 - 120
Sulfate	12		50.0	63.4		mg/L		103	80 - 120

Lab Sample ID: 240-194309-4 MSD
Matrix: Water
Analysis Batch: 594905

Client Sample ID: 102423NMW10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	0.56	J	50.0	49.1		mg/L		97	80 - 120	3	15
Fluoride	0.036	J	2.50	2.43		mg/L		96	80 - 120	4	15
Sulfate	12		50.0	61.9		mg/L		100	80 - 120	2	15

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 240-595121/3
Matrix: Water
Analysis Batch: 595121

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.13		1.0	0.13	mg/L			11/18/23 13:07	1
Fluoride	<0.024		0.050	0.024	mg/L			11/18/23 13:07	1
Sulfate	<0.35		1.0	0.35	mg/L			11/18/23 13:07	1

Lab Sample ID: LCS 240-595121/4
Matrix: Water
Analysis Batch: 595121

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	50.2		mg/L		100	90 - 110
Fluoride	2.50	2.60		mg/L		104	90 - 110
Sulfate	50.0	52.3		mg/L		105	90 - 110

Lab Sample ID: 240-194365-B-2 MS
Matrix: Water
Analysis Batch: 595121

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	120		50.0	168		mg/L		97	80 - 120
Fluoride	0.11		2.50	2.89		mg/L		111	80 - 120

Lab Sample ID: 240-194365-B-2 MSD
Matrix: Water
Analysis Batch: 595121

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120		50.0	164		mg/L		89	80 - 120	2	15
Fluoride	0.11		2.50	2.66		mg/L		102	80 - 120	8	15

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-633887/1-A
Matrix: Water
Analysis Batch: 638434

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633887

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01244	U	0.0492	0.0492	1.00	0.0949	pCi/L	10/27/23 10:31	11/28/23 07:26	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110					10/27/23 10:31	11/28/23 07:26	1

Lab Sample ID: LCS 160-633887/2-A
Matrix: Water
Analysis Batch: 638434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633887

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	10.72		1.10	1.00	0.0916	pCi/L	95	75 - 125

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-633887/2-A
Matrix: Water
Analysis Batch: 638434

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633887

		LCS	LCS
Carrier	%Yield	Qualifier	Limits
Ba Carrier	102		30 - 110

Lab Sample ID: 240-194192-2 MS
Matrix: Water
Analysis Batch: 638434

Client Sample ID: 102323NMWFGDW2
Prep Type: Total/NA
Prep Batch: 633887

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
												RER	Limit
Radium-226	0.124		11.4	11.24		1.17	1.00	0.0878	pCi/L	97	60 - 140		

		MS	MS
Carrier	%Yield	Qualifier	Limits
Ba Carrier	89.2		30 - 110

Lab Sample ID: 240-194192-2 MSD
Matrix: Water
Analysis Batch: 638569

Client Sample ID: 102323NMWFGDW2
Prep Type: Total/NA
Prep Batch: 633887

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
Radium-226	0.124		11.2	10.89		1.13	1.00	0.113	pCi/L	96	60 - 140	0.15	1

		MSD	MSD
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.2		30 - 110

Lab Sample ID: MB 160-634732/1-A
Matrix: Water
Analysis Batch: 638947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634732

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.003676	U	0.0535	0.0535	1.00	0.112	pCi/L	11/01/23 10:50	11/30/23 07:29	1

		MB	MB
Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.5		30 - 110

		Prepared	Analyzed	Dil Fac
		11/01/23 10:50	11/30/23 07:29	1

Lab Sample ID: LCS 160-634732/2-A
Matrix: Water
Analysis Batch: 638947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634732

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	9.933		1.04	1.00	0.107	pCi/L	88	75 - 125

		LCS	LCS
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.3		30 - 110

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 240-194309-4 MS
Matrix: Water
Analysis Batch: 638947

Client Sample ID: 102423NMW10
Prep Type: Total/NA
Prep Batch: 634732

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec	Limits
	Result	Qual		Result	Qual							
Radium-226	0.186		11.4	11.49		1.19	1.00	0.121	pCi/L	99	60 - 140	
MS MS												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	90.1		30 - 110									

Lab Sample ID: 240-194309-4 MSD
Matrix: Water
Analysis Batch: 638947

Client Sample ID: 102423NMW10
Prep Type: Total/NA
Prep Batch: 634732

Analyte	Sample	Sample	Spike	MSD	MSD	Total	RL	MDC	Unit	%Rec	%Rec	RER	Limit
	Result	Qual		Result	Qual								
Radium-226	0.186		11.4	10.94		1.15	1.00	0.136	pCi/L	94	60 - 140	0.23	1
MSD MSD													
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	87.9		30 - 110										

Lab Sample ID: MB 160-636139/1-A
Matrix: Water
Analysis Batch: 639854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636139

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-226	-0.03806	U	0.137	0.137	1.00	0.292	pCi/L	11/09/23 10:07	12/07/23 08:28	1
MB MB										
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
Ba Carrier	101		30 - 110	11/09/23 10:07	12/07/23 08:28	1				

Lab Sample ID: LCS 160-636139/2-A
Matrix: Water
Analysis Batch: 639854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636139

Analyte	Spike	LCS	LCS	Total	RL	MDC	Unit	%Rec	%Rec	Limits
Radium-226	11.3	10.17		1.26	1.00	0.348	pCi/L	90	75 - 125	
LCS LCS										
Carrier	%Yield	Qualifier	Limits							
Ba Carrier	97.8		30 - 110							

Lab Sample ID: 240-194192-4 DU
Matrix: Water
Analysis Batch: 639857

Client Sample ID: 102323FDDUPLICATE
Prep Type: Total/NA
Prep Batch: 636139

Analyte	Sample	Sample	DU	DU	Total	RL	MDC	Unit	RER	Limit
	Result	Qual		Result						
Radium-226	0.249	U	0.1143	U	0.185	1.00	0.317	pCi/L	0.33	1

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 240-194192-4 DU
Matrix: Water
Analysis Batch: 639857

Client Sample ID: 102323FDDUPLICATE
Prep Type: Total/NA
Prep Batch: 636139

	DU	DU	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	98.0		30 - 110

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-633888/1-A
Matrix: Water
Analysis Batch: 637274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 633888

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.5851		0.329	0.334	1.00	0.458	pCi/L	10/27/23 10:34	11/17/23 15:00	1
Carrier	%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier	101		30 - 110		10/27/23 10:34	11/17/23 15:00	1			
Y Carrier	72.5		30 - 110		10/27/23 10:34	11/17/23 15:00	1			

Lab Sample ID: LCS 160-633888/2-A
Matrix: Water
Analysis Batch: 637406

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 633888

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.71	8.281		1.14	1.00	0.467	pCi/L	107	75 - 125
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	102		30 - 110						
Y Carrier	80.4		30 - 110						

Lab Sample ID: 240-194192-2 MS
Matrix: Water
Analysis Batch: 637406

Client Sample ID: 102323NMWFGDW2
Prep Type: Total/NA
Prep Batch: 633888

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	89.2		30 - 110								
Y Carrier	77.4		30 - 110								

Lab Sample ID: 240-194192-2 MSD
Matrix: Water
Analysis Batch: 637409

Client Sample ID: 102323NMWFGDW2
Prep Type: Total/NA
Prep Batch: 633888

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
												0.39	1
Radium-228	0.618		7.64	6.866		1.03	1.00	0.520	pCi/L	82	60 - 140	0.39	1

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 240-194192-2 MSD
Matrix: Water
Analysis Batch: 637409

Client Sample ID: 102323NMWFGDW2
Prep Type: Total/NA
Prep Batch: 633888

	MSD	MSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	92.2		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: MB 160-634743/1-A
Matrix: Water
Analysis Batch: 637734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634743

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.1240	U	0.198	0.198	1.00	0.426	pCi/L	11/01/23 11:04	11/21/23 11:44	1

Carrier	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	96.5		30 - 110	11/01/23 11:04	11/21/23 11:44	1
Y Carrier	84.5		30 - 110	11/01/23 11:04	11/21/23 11:44	1

Lab Sample ID: LCS 160-634743/2-A
Matrix: Water
Analysis Batch: 637734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634743

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS	LCS	Limits
	%Yield	Qualifier	
Ba Carrier	95.3		30 - 110
Y Carrier	81.9		30 - 110

Lab Sample ID: 240-194309-4 MS
Matrix: Water
Analysis Batch: 637733

Client Sample ID: 102423NMW10
Prep Type: Total/NA
Prep Batch: 634743

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	MS	MS	Limits
	%Yield	Qualifier	
Ba Carrier	90.1		30 - 110
Y Carrier	84.9		30 - 110

Lab Sample ID: 240-194309-4 MSD
Matrix: Water
Analysis Batch: 637733

Client Sample ID: 102423NMW10
Prep Type: Total/NA
Prep Batch: 634743

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	Limit
Radium-228	0.975		7.76	9.219		1.30	1.00	0.580	pCi/L	106	60 - 140	0.43	1

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 240-194309-4 MSD
Matrix: Water
Analysis Batch: 637733

Client Sample ID: 102423NMW10
Prep Type: Total/NA
Prep Batch: 634743

Carrier	MSD MSD		Limits
	%Yield	Qualifier	
Ba Carrier	87.9		30 - 110
Y Carrier	80.4		30 - 110

Lab Sample ID: MB 160-636140/1-A
Matrix: Water
Analysis Batch: 639558

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 636140

Analyte	MB MB		Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	0.5359		0.327	0.330	1.00	0.477	pCi/L	11/09/23 10:12	12/06/23 15:56	1

Carrier	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Yield	Qualifier				
Ba Carrier	101		30 - 110	11/09/23 10:12	12/06/23 15:56	1
Y Carrier	80.4		30 - 110	11/09/23 10:12	12/06/23 15:56	1

Lab Sample ID: LCS 160-636140/2-A
Matrix: Water
Analysis Batch: 639558

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 636140

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits

Carrier	LCS LCS		Limits
	%Yield	Qualifier	
Ba Carrier	97.8		30 - 110
Y Carrier	78.5		30 - 110

Lab Sample ID: 240-194192-4 DU
Matrix: Water
Analysis Batch: 639558

Client Sample ID: 102323FDDUPLICATE
Prep Type: Total/NA
Prep Batch: 636140

Analyte	Sample Sample		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
	Result	Qual								
Radium-228	1.54		0.6898		0.342	1.00	0.458	pCi/L	1.08	1

Carrier	DU DU		Limits
	%Yield	Qualifier	
Ba Carrier	98.0		30 - 110
Y Carrier	83.0		30 - 110

QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Metals

Prep Batch: 592401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-1	102323NMW22	Total Recoverable	Water	3005A	
240-194192-2	102323NMWFGDW2	Total Recoverable	Water	3005A	
MB 240-592401/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-592401/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-592401/3-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-194192-2 MS	102323NMWFGDW2	Total Recoverable	Water	3005A	
240-194192-2 MS	102323NMWFGDW2	Total Recoverable	Water	3005A	
240-194192-2 MSD	102323NMWFGDW2	Total Recoverable	Water	3005A	
240-194192-2 MSD	102323NMWFGDW2	Total Recoverable	Water	3005A	

Prep Batch: 592417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-1	102323NMW22	Total/NA	Water	7470A	
240-194192-2	102323NMWFGDW2	Total/NA	Water	7470A	
MB 240-592417/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-592417/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-194192-2 MS	102323NMWFGDW2	Total/NA	Water	7470A	
240-194192-2 MSD	102323NMWFGDW2	Total/NA	Water	7470A	

Analysis Batch: 592533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-1	102323NMW22	Total Recoverable	Water	6010D	592401
240-194192-2	102323NMWFGDW2	Total Recoverable	Water	6010D	592401
MB 240-592401/1-A	Method Blank	Total Recoverable	Water	6010D	592401
LCS 240-592401/2-A	Lab Control Sample	Total Recoverable	Water	6010D	592401
240-194192-2 MS	102323NMWFGDW2	Total Recoverable	Water	6010D	592401
240-194192-2 MSD	102323NMWFGDW2	Total Recoverable	Water	6010D	592401

Prep Batch: 592562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-4	102423NMW10	Total Recoverable	Water	3005A	
240-194309-5	102423FBFIELDBLANK	Total Recoverable	Water	3005A	
MB 240-592562/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-592562/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-592562/4-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-194309-4 MS	102423NMW10	Total Recoverable	Water	3005A	
240-194309-4 MS	102423NMW10	Total Recoverable	Water	3005A	
240-194309-4 MSD	102423NMW10	Total Recoverable	Water	3005A	
240-194309-4 MSD	102423NMW10	Total Recoverable	Water	3005A	

Prep Batch: 592567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-4	102423NMW10	Total/NA	Water	7470A	
240-194309-5	102423FBFIELDBLANK	Total/NA	Water	7470A	
MB 240-592567/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-592567/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-194309-4 MS	102423NMW10	Total/NA	Water	7470A	
240-194309-4 MSD	102423NMW10	Total/NA	Water	7470A	

QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Metals

Analysis Batch: 592583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-1	102323NMW22	Total/NA	Water	7470A	592417
240-194192-2	102323NMWFGDW2	Total/NA	Water	7470A	592417
MB 240-592417/1-A	Method Blank	Total/NA	Water	7470A	592417
LCS 240-592417/2-A	Lab Control Sample	Total/NA	Water	7470A	592417
240-194192-2 MS	102323NMWFGDW2	Total/NA	Water	7470A	592417
240-194192-2 MSD	102323NMWFGDW2	Total/NA	Water	7470A	592417

Analysis Batch: 592631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-1	102323NMW22	Total Recoverable	Water	6020B	592401
240-194192-2	102323NMWFGDW2	Total Recoverable	Water	6020B	592401
MB 240-592401/1-A	Method Blank	Total Recoverable	Water	6020B	592401
LCS 240-592401/3-A	Lab Control Sample	Total Recoverable	Water	6020B	592401
240-194192-2 MS	102323NMWFGDW2	Total Recoverable	Water	6020B	592401
240-194192-2 MSD	102323NMWFGDW2	Total Recoverable	Water	6020B	592401

Analysis Batch: 592658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-4	102423NMW10	Total Recoverable	Water	6010D	592562
240-194309-5	102423FBFIELDBLANK	Total Recoverable	Water	6010D	592562
MB 240-592562/1-A	Method Blank	Total Recoverable	Water	6010D	592562
LCS 240-592562/2-A	Lab Control Sample	Total Recoverable	Water	6010D	592562
240-194309-4 MS	102423NMW10	Total Recoverable	Water	6010D	592562
240-194309-4 MSD	102423NMW10	Total Recoverable	Water	6010D	592562

Analysis Batch: 592771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-4	102423NMW10	Total/NA	Water	7470A	592567
240-194309-5	102423FBFIELDBLANK	Total/NA	Water	7470A	592567
MB 240-592567/1-A	Method Blank	Total/NA	Water	7470A	592567
LCS 240-592567/2-A	Lab Control Sample	Total/NA	Water	7470A	592567
240-194309-4 MS	102423NMW10	Total/NA	Water	7470A	592567
240-194309-4 MSD	102423NMW10	Total/NA	Water	7470A	592567

Analysis Batch: 592816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-4	102423NMW10	Total Recoverable	Water	6020B	592562
240-194309-5	102423FBFIELDBLANK	Total Recoverable	Water	6020B	592562
MB 240-592562/1-A	Method Blank	Total Recoverable	Water	6020B	592562
LCS 240-592562/4-A	Lab Control Sample	Total Recoverable	Water	6020B	592562
240-194309-4 MS	102423NMW10	Total Recoverable	Water	6020B	592562
240-194309-4 MSD	102423NMW10	Total Recoverable	Water	6020B	592562

Prep Batch: 594066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-4	102323FDDUPLICATE	Total Recoverable	Water	3005A	
MB 240-594066/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-594066/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-594066/4-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-194943-H-3-F MS	Matrix Spike	Dissolved	Water	3005A	
240-194943-H-3-G MSD	Matrix Spike Duplicate	Dissolved	Water	3005A	

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QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Metals

Prep Batch: 594067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-4	102323FDDUPLICATE	Total/NA	Water	7470A	
MB 240-594067/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-594067/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-195051-A-8-E MS	Matrix Spike	Total/NA	Water	7470A	
240-195051-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 594207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-4	102323FDDUPLICATE	Total Recoverable	Water	6010D	594066
MB 240-594066/1-A	Method Blank	Total Recoverable	Water	6010D	594066
LCS 240-594066/2-A	Lab Control Sample	Total Recoverable	Water	6010D	594066

Analysis Batch: 594259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-4	102323FDDUPLICATE	Total Recoverable	Water	6020B	594066
MB 240-594066/1-A	Method Blank	Total Recoverable	Water	6020B	594066
LCS 240-594066/4-A	Lab Control Sample	Total Recoverable	Water	6020B	594066
240-194943-H-3-F MS	Matrix Spike	Dissolved	Water	6020B	594066
240-194943-H-3-G MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	594066

Analysis Batch: 594260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-4	102323FDDUPLICATE	Total/NA	Water	7470A	594067
MB 240-594067/1-A	Method Blank	Total/NA	Water	7470A	594067
LCS 240-594067/2-A	Lab Control Sample	Total/NA	Water	7470A	594067
240-195051-A-8-E MS	Matrix Spike	Total/NA	Water	7470A	594067
240-195051-A-8-F MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	594067

General Chemistry

Analysis Batch: 592435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-1	102323NMW22	Total/NA	Water	9056A	
240-194192-2	102323NMWFGDW2	Total/NA	Water	9056A	
MB 240-592435/3	Method Blank	Total/NA	Water	9056A	
LCS 240-592435/4	Lab Control Sample	Total/NA	Water	9056A	
240-194192-1 MS	102323NMW22	Total/NA	Water	9056A	
240-194192-1 MSD	102323NMW22	Total/NA	Water	9056A	
240-194192-2 MS	102323NMWFGDW2	Total/NA	Water	9056A	
240-194192-2 MSD	102323NMWFGDW2	Total/NA	Water	9056A	

Analysis Batch: 594905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-4	102423NMW10	Total/NA	Water	9056A	
240-194309-5	102423FBFIELDBLANK	Total/NA	Water	9056A	
MB 240-594905/3	Method Blank	Total/NA	Water	9056A	
LCS 240-594905/4	Lab Control Sample	Total/NA	Water	9056A	
240-194309-4 MS	102423NMW10	Total/NA	Water	9056A	
240-194309-4 MSD	102423NMW10	Total/NA	Water	9056A	

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QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

General Chemistry

Analysis Batch: 595121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-4	102323FDDUPLICATE	Total/NA	Water	9056A	
MB 240-595121/3	Method Blank	Total/NA	Water	9056A	
LCS 240-595121/4	Lab Control Sample	Total/NA	Water	9056A	
240-194365-B-2 MS	Matrix Spike	Total/NA	Water	9056A	
240-194365-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	

Rad

Prep Batch: 633887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-1	102323NMW22	Total/NA	Water	PrecSep-21	
240-194192-2	102323NMWFGDW2	Total/NA	Water	PrecSep-21	
MB 160-633887/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-633887/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-194192-2 MS	102323NMWFGDW2	Total/NA	Water	PrecSep-21	
240-194192-2 MSD	102323NMWFGDW2	Total/NA	Water	PrecSep-21	

Prep Batch: 633888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-1	102323NMW22	Total/NA	Water	PrecSep_0	
240-194192-2	102323NMWFGDW2	Total/NA	Water	PrecSep_0	
MB 160-633888/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-633888/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-194192-2 MS	102323NMWFGDW2	Total/NA	Water	PrecSep_0	
240-194192-2 MSD	102323NMWFGDW2	Total/NA	Water	PrecSep_0	

Prep Batch: 634732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-4	102423NMW10	Total/NA	Water	PrecSep-21	
240-194309-5	102423FBFIELDBLANK	Total/NA	Water	PrecSep-21	
MB 160-634732/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-634732/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-194309-4 MS	102423NMW10	Total/NA	Water	PrecSep-21	
240-194309-4 MSD	102423NMW10	Total/NA	Water	PrecSep-21	

Prep Batch: 634743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-4	102423NMW10	Total/NA	Water	PrecSep_0	
240-194309-5	102423FBFIELDBLANK	Total/NA	Water	PrecSep_0	
MB 160-634743/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-634743/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-194309-4 MS	102423NMW10	Total/NA	Water	PrecSep_0	
240-194309-4 MSD	102423NMW10	Total/NA	Water	PrecSep_0	

Prep Batch: 636139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-4	102323FDDUPLICATE	Total/NA	Water	PrecSep-21	
MB 160-636139/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-636139/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-194192-4 DU	102323FDDUPLICATE	Total/NA	Water	PrecSep-21	

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QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Rad

Prep Batch: 636140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194192-4	102323FDDUPLICATE	Total/NA	Water	PrecSep_0	
MB 160-636140/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-636140/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-194192-4 DU	102323FDDUPLICATE	Total/NA	Water	PrecSep_0	

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Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102323NMW22

Lab Sample ID: 240-194192-1

Date Collected: 10/23/23 14:35

Matrix: Water

Date Received: 10/25/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592401	BN	EET CLE	10/26/23 14:00
Total Recoverable	Analysis	6010D		1	592533	KLC	EET CLE	10/27/23 09:56
Total Recoverable	Prep	3005A			592401	BN	EET CLE	10/26/23 14:00
Total Recoverable	Analysis	6020B		1	592631	RKT	EET CLE	10/27/23 13:07
Total/NA	Prep	7470A			592417	BN	EET CLE	10/26/23 14:00
Total/NA	Analysis	7470A		1	592583	DSH	EET CLE	10/27/23 14:26
Total/NA	Analysis	9056A		1	592435	JWW	EET CLE	10/28/23 15:36
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:28
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	639864	EMH	EET SL	12/07/23 14:35

Client Sample ID: 102323NMWFGDW2

Lab Sample ID: 240-194192-2

Date Collected: 10/23/23 16:50

Matrix: Water

Date Received: 10/25/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592401	BN	EET CLE	10/26/23 14:00
Total Recoverable	Analysis	6010D		1	592533	KLC	EET CLE	10/27/23 09:06
Total Recoverable	Prep	3005A			592401	BN	EET CLE	10/26/23 14:00
Total Recoverable	Analysis	6020B		1	592631	RKT	EET CLE	10/27/23 12:30
Total/NA	Prep	7470A			592417	BN	EET CLE	10/26/23 14:00
Total/NA	Analysis	7470A		1	592583	DSH	EET CLE	10/27/23 14:14
Total/NA	Analysis	9056A		1	592435	JWW	EET CLE	10/28/23 10:32
Total/NA	Prep	PrecSep-21			633887	KAC	EET SL	10/27/23 10:31
Total/NA	Analysis	9315		1	638434	FLC	EET SL	11/28/23 07:28
Total/NA	Prep	PrecSep_0			633888	KAC	EET SL	10/27/23 10:34
Total/NA	Analysis	9320		1	637406	FLC	EET SL	11/17/23 15:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	639864	EMH	EET SL	12/07/23 14:35

Client Sample ID: 102323FDDUPLICATE

Lab Sample ID: 240-194192-4

Date Collected: 10/23/23 14:45

Matrix: Water

Date Received: 10/25/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			594066	S4FJ	EET CLE	11/09/23 14:00
Total Recoverable	Analysis	6010D		1	594207	KLC	EET CLE	11/10/23 10:28
Total Recoverable	Prep	3005A			594066	S4FJ	EET CLE	11/09/23 14:00
Total Recoverable	Analysis	6020B		1	594259	RKT	EET CLE	11/10/23 16:54
Total/NA	Prep	7470A			594067	S4FJ	EET CLE	11/09/23 14:00
Total/NA	Analysis	7470A		1	594260	DSH	EET CLE	11/10/23 13:42
Total/NA	Analysis	9056A		1	595121	JWW	EET CLE	11/18/23 19:50

Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Client Sample ID: 102323FDDUPLICATE

Lab Sample ID: 240-194192-4

Date Collected: 10/23/23 14:45

Matrix: Water

Date Received: 10/25/23 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			636139	KAC	EET SL	11/09/23 10:07
Total/NA	Analysis	9315		1	639854	FLC	EET SL	12/07/23 08:28
Total/NA	Prep	PrecSep_0			636140	KAC	EET SL	11/09/23 10:12
Total/NA	Analysis	9320		1	639558	FLC	EET SL	12/06/23 15:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	639864	EMH	EET SL	12/07/23 14:35

Client Sample ID: 102423NMW10

Lab Sample ID: 240-194309-4

Date Collected: 10/24/23 09:15

Matrix: Water

Date Received: 10/26/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592562	S4FJ	EET CLE	10/27/23 14:00
Total Recoverable	Analysis	6010D		1	592658	KLC	EET CLE	10/30/23 08:56
Total Recoverable	Prep	3005A			592562	S4FJ	EET CLE	10/27/23 14:00
Total Recoverable	Analysis	6020B		1	592816	RKT	EET CLE	10/30/23 15:40
Total/NA	Prep	7470A			592567	S4FJ	EET CLE	10/27/23 14:00
Total/NA	Analysis	7470A		1	592771	DSH	EET CLE	10/30/23 13:53
Total/NA	Analysis	9056A		1	594905	JWW	EET CLE	11/17/23 06:02
Total/NA	Prep	PrecSep-21			634732	KAC	EET SL	11/01/23 10:50
Total/NA	Analysis	9315		1	638947	FLC	EET SL	11/30/23 09:16
Total/NA	Prep	PrecSep_0			634743	KAC	EET SL	11/01/23 11:04
Total/NA	Analysis	9320		1	637733	FLC	EET SL	11/21/23 11:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	638954	SCB	EET SL	11/30/23 12:53

Client Sample ID: 102423FBFIELDBLANK

Lab Sample ID: 240-194309-5

Date Collected: 10/24/23 10:10

Matrix: Water

Date Received: 10/26/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592562	S4FJ	EET CLE	10/27/23 14:00
Total Recoverable	Analysis	6010D		1	592658	KLC	EET CLE	10/30/23 10:27
Total Recoverable	Prep	3005A			592562	S4FJ	EET CLE	10/27/23 14:00
Total Recoverable	Analysis	6020B		1	592816	RKT	EET CLE	10/30/23 16:14
Total/NA	Prep	7470A			592567	S4FJ	EET CLE	10/27/23 14:00
Total/NA	Analysis	7470A		1	592771	DSH	EET CLE	10/30/23 14:24
Total/NA	Analysis	9056A		1	594905	JWW	EET CLE	11/17/23 09:39
Total/NA	Prep	PrecSep-21			634732	KAC	EET SL	11/01/23 10:50
Total/NA	Analysis	9315		1	638947	FLC	EET SL	11/30/23 09:17
Total/NA	Prep	PrecSep_0			634743	KAC	EET SL	11/01/23 11:04
Total/NA	Analysis	9320		1	637733	FLC	EET SL	11/21/23 11:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	638954	SCB	EET SL	11/30/23 12:53

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396
EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Accreditation/Certification Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-K

Job ID: 240-194192-2

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	210	12-31-23

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	381	12-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Ra226_Ra228 Pos		Water	Radium 226 and 228



Eurofins Cleveland
 180 S Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record

Client Information
 Client Contact: *C. Meigs, M. Meitz*
 Crystal Shadle
 Company: WSP USA Inc
 Address: 1100 Boulders Parkway Suite 503
 City: Richmond
 State, Zip: VA, 23227
 Phone: 50168481
 Email: crystal.shadle@wsp.com
 Project Name: Mount Storm Power Station
 Site:

Due Date Requested:
 TAT Requested (days): **STANDARD TAT**
 Compliance Project: Yes No
 PO #: 50168481
 WO #: 31406066.005
 Project #: 24021758
 SSOW#:
 Lab PW: Cisneros, Roxanne
 E-Mail: roxanne.cisneros@eurofins.com

COCID: MSPS - 2SA2023 - ABNPDDES - J - 1 - 1
4.8/4.6
eurofins

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, O-wet, B-Tissue, A-Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350 F - Ammonia	200 T - Chromium	2640D - TSS	200 T, 200 S, 245.1	300 Q, 28D - Chloride & Sulfate	353 Z - Nitrate-Nitrite	Analysis Requested	Lab PW	Lab PW E-Mail	Lab PW Phone	Lab PW State	Lab PW Tracking No(s)	Lab PW State	Lab PW Job #	Lab PW Page 1 of 2	Lab PW Page 1 of 2	Lab PW Job #	Lab PW Page 1 of 2	
<i>Add Samples Preserved on ice</i>	<i>10/23/23</i>	<i>1435</i>	<i>G</i>	Water	X	X	X	X	X	X	X	X													
<i>10 23 23MMW22</i>	<i>10/23/23</i>	<i>1650</i>	<i>G</i>	Water	X	X	X	X	X	X	X	X													
<i>10 23 23MMWFGDW2</i>				Water																					
<i>10 23 23MMW5-C</i>				Water																					
<i>10 23 23MMW7-C</i>				Water																					
<i>10 23 23MMW8-C</i>				Water																					
<i>10 23 23MMW10-C</i>				Water																					
<i>10 23 23MMW12-C</i>				Water																					
<i>10 23 23MMW13</i>	<i>10/23/23</i>	<i>1535</i>	<i>G</i>	Water	X	X	X	X	X	X	X	X													
<i>10 23 23MMW14-C</i>				Water																					
<i>10 23 23MMW15-C</i>				Water																					



240-194192 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Received by	Date/Time	Company	Method of Shipment
<i>[Signature]</i>	<i>10/24/23 0930</i>	<i>WSP Company</i>	
<i>[Signature]</i>	<i>10/25/23 1010</i>	<i>WSP Company</i>	
<i>[Signature]</i>	<i>10/25/23 1535</i>	<i>WSP Company</i>	

Empty Kit Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____
 Relinquished by: _____
 Custody Seals Intact Yes No Custody Seal No: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Eurofins - Cleveland Sample Receipt Form/Narrative Login # : _____

Barberton Facility

Client WSP Site Name _____ Cooler unpacked by: M. Sloan

Cooler Received on 10.25.23 Opened on 10.25.23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 22 Foam Box _____ Client Cooler _____ Box _____ Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?

10. Were correct bottle(s) used for the test(s) indicated? Yes No

11. Sufficient quantity received to perform indicated analyses? Yes No

12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719

14. Were VOAs on the COC? Yes No

15. Were air bubbles >6 mm in any VOA vials? Yes No NA ← Larger than this.

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No

17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
(EC)	Client	Box	Other	IR GUN #: 4	4.8	4.6	Wet Ice	Blue Ice	Dry Ice
(EC)	Client	Box	Other	IR GUN #: 4	3.7	3.5	Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	

See Temperature Excursion Form

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container		Preservative	
			pH	Temp	Added (mls)	Lot #
102323NMW22	240-194192-C-1	Plastic 250ml - with Sulfuric Acid	<2			
102323NMW22	240-194192-D-1	Plastic 250ml - with Sulfuric Acid	<2			
102323NMW22	240-194192-F-1	Plastic 500ml - with Nitric Acid	<2			
102323NMW22	240-194192-G-1	Plastic 500ml - with Nitric Acid	<2			
102323NMW22	240-194192-H-1	Plastic 500ml - w/ Nitric - Dis.	<2			
102323NMW22	240-194192-J-1	Plastic 1 liter - Nitric Acid	<2			
102323NMW22	240-194192-K-1	Plastic 1 liter - Nitric Acid	<2			
102323NMWFGDW2	240-194192-E-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-F-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-G-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-H-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-I-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-J-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-L-2	Plastic 500ml - with Nitric Acid	<2			
102323NMWFGDW2	240-194192-M-2	Plastic 500ml - with Nitric Acid	<2			
102323NMWFGDW2	240-194192-N-2	Plastic 500ml - with Nitric Acid	<2			
102323NMWFGDW2	240-194192-O-2	Plastic 500ml - with Nitric Acid	<2			
102323NMWFGDW2	240-194192-P-2	Plastic 500ml - w/ Nitric - Dis.	<2			
102323NMWFGDW2	240-194192-Q-2	Plastic 500ml - w/ Nitric - Dis.	<2			
102323NMWFGDW2	240-194192-R-2	Plastic 500ml - w/ Nitric - Dis.	<2			
102323NMWFGDW2	240-194192-U-2	Plastic 1 liter - Nitric Acid	<2			
102323NMWFGDW2	240-194192-V-2	Plastic 1 liter - Nitric Acid	<2			
102323NMWFGDW2	240-194192-W-2	Plastic 1 liter - Nitric Acid	<2			
102323NMW13	240-194192-C-3	Plastic 250ml - with Sulfuric Acid	<2			
102323NMW13	240-194192-D-3	Plastic 250ml - with Sulfuric Acid	<2			
102323NMW13	240-194192-F-3	Plastic 500ml - with Nitric Acid	<2			
102323NMW13	240-194192-G-3	Plastic 500ml - with Nitric Acid	<2			
102323NMW13	240-194192-H-3	Plastic 500ml - w/ Nitric - Dis.	<2			
102323NMW13	240-194192-J-3	Plastic 1 liter - Nitric Acid	<2			
102323NMW13	240-194192-K-3	Plastic 1 liter - Nitric Acid	<2			
102323FDDUPLICATE	240-194192-C-4	Plastic 500ml - with Nitric Acid	<2			
102323FDDUPLICATE	240-194192-D-4	Plastic 1 liter - Nitric Acid	<2			
102323FDDUPLICATE	240-194192-E-4	Plastic 1 liter - Nitric Acid	<2			

Eurofins Cleveland
 180 S. Van Buren Avenue
 Barberton, OH 44203
 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



Environment Testing

COCID: MSPS-25A2023-CUR-K-1-1

Client Information		Lab P/N: M-K-12		Carrier Tracking No(s): 5903 09819206		COC No: 240-113179-40244.1	
Client Contact: Crystal Shadle		E-Mail: roxanne.cisneros@et.eurofins.com		State of Origin: WV		Page 1 of 2	
Company: WSP USA Inc		PWSID:		Analysis Requested:		Job #:	
Address: 1100 Boulders Parkway Suite 503		Due Date Requested:		Preservation Codes:		M - Hexane	
City: Richmond		TAT Requested (days): STANDARD TAT		A - HCL		N - None	
State: Va		Compliance Project: Yes No		B - NaOH		O - AsNaO2	
Phone: 50168481		PO #:		C - Zn Acetate		P - Na2O4S	
Email: crystal.shadle@wsp.com		WO #:		D - Nitric Acid		Q - Na2SO3	
Project Name: Mount Storm Power Station		31406066 005		E - NaHSO4		R - Na2S2O3	
Site: 24021758		Project #:		F - MeOH		S - H2SO4	
		SSOW#:		G - Amchlor		T - TSP Dodecahydrate	
				H - Ascorbic Acid		U - Acetone	
				I - Ice		V - MCAA	
				J - DI Water		W - pH 4-5	
				K - EDTA		Y - Trizma	
				L - EDA		Z - other (Specify)	
				Other:			
Sample Identification		Sample Date		Sample Time		Sample Matrix	
10 23 23NMMW22		10/23/23		1435		Water	
10 23 23NMMWF6DW2		10/23/23		1650		Water	
10 23 23NMMW5 C						Water	
10 23 23NMMW6 C						Water	
10 23 23NMMW44 C						Water	
10 23 23NMMWF6DW5 C						Water	
10 23 23F Field Blank C						Water	
10 23 23FDDuplicate C						Water	
10 23 23M Matrix Spike C						Water	
10 23 23MSD Matrix Spike Dup C						Water	
10 23 23NMMW7 C						Water	
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard		<input type="checkbox"/> Flammable		<input type="checkbox"/> Skin Irritant	
Deliverable Requested: I, II, IV, Other (specify)		Level II Data Package		Radiological		Poison B	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: [Signature]		10/24/23 8:0830		10:25:23		Company: WSP	
Relinquished by:		Date/Time:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Date/Time:		Company:	
Custody Seals Intact: Yes No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			



Barberton Facility

Client WSP

Site Name _____

Cooler unpacked by: _____

Cooler Received on 10.25.23

Opened on 10.25.23

M. Hoan

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 22 Foam Box _____ Client Cooler _____ Box _____ Other _____
Packing material used Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No
- Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
- Were tamper/custody seals intact and uncompromised? Yes No NA

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

- 3. Shippers' packing slip attached to the cooler(s)? Yes No
- 4. Did custody papers accompany the sample(s)? Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- 7. Did all bottles arrive in good condition (Unbroken)? Yes No
- 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this.
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins - Canton Sample Receipt Multiple Cooler Form									
Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
<u>EC</u>	Client	Box	Other	IR GUN #: <u>4</u>	<u>4.8</u>	<u>4.6</u>	Wet Ice	Blue Ice	Dry Ice
<u>EC</u>	Client	Box	Other	IR GUN #: <u>4</u>	<u>3.7</u>	<u>3.5</u>	Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	
EC	Client	Box	Other	IR GUN #: _____			Wet Ice	Blue Ice	Dry Ice
EC	Client	Box	Other	IR GUN #: _____			Water	None	

See Temperature Excursion Form

Temperature readings:

Client Sample ID	Lab ID	Container Type	Container		Preservative	
			pH	Temp	Added (mls)	Lot #
102323NMW22	240-194192-C-1	Plastic 250ml - with Sulfuric Acid	<2			
102323NMW22	240-194192-D-1	Plastic 250ml - with Sulfuric Acid	<2			
102323NMW22	240-194192-F-1	Plastic 500ml - with Nitric Acid	<2			
102323NMW22	240-194192-G-1	Plastic 500ml - with Nitric Acid	<2			
102323NMW22	240-194192-H-1	Plastic 500ml - w/ Nitric - Dis.	<2			
102323NMW22	240-194192-J-1	Plastic 1 liter - Nitric Acid	<2			
102323NMW22	240-194192-K-1	Plastic 1 liter - Nitric Acid	<2			
102323NMWFGDW2	240-194192-E-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-F-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-G-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-H-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-I-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-J-2	Plastic 250ml - with Sulfuric Acid	<2			
102323NMWFGDW2	240-194192-L-2	Plastic 500ml - with Nitric Acid	<2			
102323NMWFGDW2	240-194192-M-2	Plastic 500ml - with Nitric Acid	<2			
102323NMWFGDW2	240-194192-N-2	Plastic 500ml - with Nitric Acid	<2			
102323NMWFGDW2	240-194192-O-2	Plastic 500ml - with Nitric Acid	<2			
102323NMWFGDW2	240-194192-P-2	Plastic 500ml - w/ Nitric - Dis.	<2			
102323NMWFGDW2	240-194192-Q-2	Plastic 500ml - w/ Nitric - Dis.	<2			
102323NMWFGDW2	240-194192-R-2	Plastic 500ml - w/ Nitric - Dis.	<2			
102323NMWFGDW2	240-194192-U-2	Plastic 1 liter - Nitric Acid	<2			
102323NMWFGDW2	240-194192-V-2	Plastic 1 liter - Nitric Acid	<2			
102323NMWFGDW2	240-194192-W-2	Plastic 1 liter - Nitric Acid	<2			
102323NMW13	240-194192-C-3	Plastic 250ml - with Sulfuric Acid	<2			
102323NMW13	240-194192-D-3	Plastic 250ml - with Sulfuric Acid	<2			
102323NMW13	240-194192-F-3	Plastic 500ml - with Nitric Acid	<2			
102323NMW13	240-194192-G-3	Plastic 500ml - with Nitric Acid	<2			
102323NMW13	240-194192-H-3	Plastic 500ml - w/ Nitric - Dis.	<2			
102323NMW13	240-194192-J-3	Plastic 1 liter - Nitric Acid	<2			
102323NMW13	240-194192-K-3	Plastic 1 liter - Nitric Acid	<2			
102323FDDUPLICATE	240-194192-C-4	Plastic 500ml - with Nitric Acid	<2			
102323FDDUPLICATE	240-194192-D-4	Plastic 1 liter - Nitric Acid	<2			
102323FDDUPLICATE	240-194192-E-4	Plastic 1 liter - Nitric Acid	<2			

Eurofins - Cleveland Sample Receipt Form/Narrative
Barberton Facility

Login # : 194309

Client WSP USA Inc Site Name _____
Cooler Received on 10-26-23 Opened on 10-26-23 Cooler unpacked by: [Signature]
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other [Signature]

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box _____ Client Cooler _____ Box _____ Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # 21 (CF -0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 5
 - Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 - Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Yes NO NA Larger than this.
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login #: 19439

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: 21	0.8	0.6	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: 21	1.3	1.1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: 21	2.3	2.1	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: 21	4.9	4.7	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: 21	4.7	4.5	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	IR GUN #: _____			<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

See Temperature Excursion Form

Temperature readings:

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>		<u>Preservative</u>	
			<u>pH</u>	<u>Temp</u>	<u>Added (mls)</u>	<u>Lot #</u>
102423NMW5	240-194309-B-1	Plastic 500ml - with Nitric Acid	<2			
102423NMW5	240-194309-C-1	Plastic 1 liter - Nitric Acid	<2			
102423NMW5	240-194309-D-1	Plastic 1 liter - Nitric Acid	<2			
102423NMW8	240-194309-B-2	Plastic 500ml - with Nitric Acid	<2			
102423NMW8	240-194309-C-2	Plastic 1 liter - Nitric Acid	<2			
102423NMW8	240-194309-D-2	Plastic 1 liter - Nitric Acid	<2			
102423NMWFGDW6	240-194309-B-3	Plastic 500ml - with Nitric Acid	<2			
102423NMWFGDW6	240-194309-C-3	Plastic 1 liter - Nitric Acid	<2			
102423NMWFGDW6	240-194309-D-3	Plastic 1 liter - Nitric Acid	<2			
102423NMW10	240-194309-B-4	Plastic 500ml - with Nitric Acid	<2			
102423NMW10	240-194309-C-4	Plastic 1 liter - Nitric Acid	<2			
102423NMW10	240-194309-D-4	Plastic 1 liter - Nitric Acid	<2			
102423FBFIELD BLANK	240-194309-B-5	Plastic 500ml - with Nitric Acid	<2			
102423FBFIELD BLANK	240-194309-C-5	Plastic 1 liter - Nitric Acid	<2			
102423FBFIELD BLANK	240-194309-D-5	Plastic 1 liter - Nitric Acid	<2			
102423NMW7	240-194309-B-6	Plastic 500ml - with Nitric Acid	<2			
102423NMW7	240-194309-C-6	Plastic 1 liter - Nitric Acid	<2			
102423NMW7	240-194309-D-6	Plastic 1 liter - Nitric Acid	<2			
102423NMW12R	240-194309-B-7	Plastic 500ml - with Nitric Acid	<2			
102423NMW12R	240-194309-C-7	Plastic 1 liter - Nitric Acid	<2			
102423NMW12R	240-194309-D-7	Plastic 1 liter - Nitric Acid	<2			
102423NMW6R	240-194309-B-8	Plastic 500ml - with Nitric Acid	<2			
102423NMW6R	240-194309-C-8	Plastic 1 liter - Nitric Acid	<2			
102423NMW6R	240-194309-D-8	Plastic 1 liter - Nitric Acid	<2			
102423NMW14	240-194309-B-9	Plastic 500ml - with Nitric Acid	<2			
102423NMW14	240-194309-C-9	Plastic 1 liter - Nitric Acid	<2			
102423NMW14	240-194309-D-9	Plastic 1 liter - Nitric Acid	<2			

FedEx®



eurofins

Environment Testing
TestAmerica

Part # 159470-434 NTW EXP 09/24

ORIGIN ID: CAKA (330) 312-0176
LANCE HERSHMAN
EUROFINS TESTAMERICA BARBERTON
180 S VAN BUREN

SHIP DATE: 25OCT23
ACTWT: 49.00 LB MAN
CAD: 0562065/CAFE3755

BARBERTON, OH 44203
UNITED STATES US

BILL THIRD PARTY

TO ENVIRONMENTAL SAMPLE RECEIPT

PITTSBURGH

DRIVE

TCH

PA 15238

RT 198
EZ 197
1 10:30
A
9877
10:26

PO: REF: DEPT:

Uncorrected temp
Thermometer ID

CF 0.4 Initials PM

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

FedEx
Express

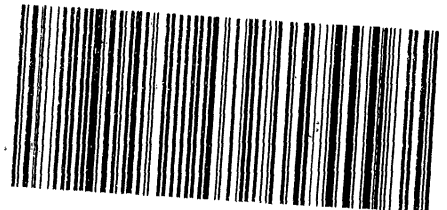


TRK# 6549 1095 9877
0201

THU -- 26 OCT 10:30
PRIORITY OVERNIGHT

65 AGCA

15238
PA-US PI



- 1
- 2
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- 4
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- 11
- 12
- 13
- 14
- 15

JAMES BISHOP
 EUROFINS
 1244 EXECUTIVE BLVD. SUITE F
 CHESAPEAKE VA 23320
 UNITED STATES US

10.00 LB MAX
 0415933/CAFES753

RT 164
 6
 10:30
 A
 9228
 10.26

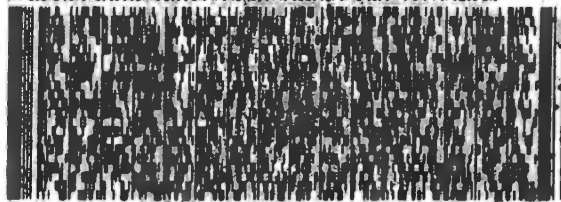
0 SAMPLE RECEIVING
 EUROFINS CLEVELAND
 180 S. VAN BUREN

BARBERTON OH 44203

(330) 497-9300

REF:

DEPT:



FedEx
 Express

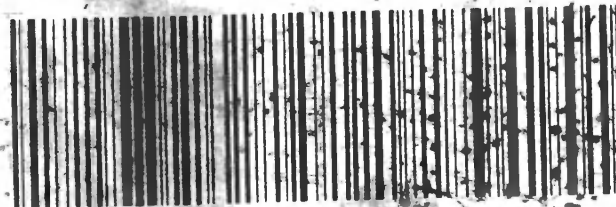


FedEx
 0263 5903 0984 9228

THU - 26 OCT 'AA
 PRIORITY OVERNIGHT

64 CAKA

44203
 OH-US
 CLE



3734303 25Oct2023 NRBA 53161/BC88/C088

Inclement Testing
 Pan arica

9300

Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-194192-2

Login Number: 194192

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 10/26/23 02:54 PM

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



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-194192-2

Login Number: 194309

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 10/30/23 02:48 PM

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





ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Hicks
Dominion Energy Services, Inc.
5000 Dominion Blvd
Glen Allen, Virginia 23060

Generated 11/30/2023 1:27:48 PM

JOB DESCRIPTION

MSPS-2SA2023-CCR-L

JOB NUMBER

240-194309-1

Eurofins Cleveland

Job Notes

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

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

Authorization

Roxanne Cisneros

Generated
11/30/2023 1:27:48 PM

Authorized for release by
Roxanne Cisneros, Senior Project Manager
roxanne.cisneros@et.eurofinsus.com
(615)301-5761



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Tracer Carrier Summary	15
QC Sample Results	16
QC Association Summary	22
Lab Chronicle	24
Certification Summary	26
Chain of Custody	27
Receipt Checklists	34

Definitions/Glossary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Qualifiers

Metals

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

General Chemistry

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

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Case Narrative

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Job ID: 240-194309-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-194309-1

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

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

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

Receipt

The samples were received on 10/26/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.6°C, 1.1°C, 2.1°C, 4.5°C and 4.7°C

Metals

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

General Chemistry

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

Gas Flow Proportional Counter

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

Rad

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

Method Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CLE
6020B	Metals (ICP/MS)	SW846	EET CLE
7470A	Mercury (CVAA)	SW846	EET CLE
9056A	Anions, Ion Chromatography	SW846	EET CLE
9315	Radium-226 (GFPC)	SW846	EET SL
9320	Radium-228 (GFPC)	SW846	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE
7470A	Preparation, Mercury	SW846	EET CLE
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

None = None

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

TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-194309-1	102423NMW5	Water	10/24/23 11:00	10/26/23 09:50
240-194309-2	102423NMW8	Water	10/24/23 15:35	10/26/23 09:50
240-194309-3	102423NMWFGDW6	Water	10/24/23 15:40	10/26/23 09:50

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Detection Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Client Sample ID: 102423NMW5

Lab Sample ID: 240-194309-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.81	J	2.0	0.57	ug/L	1		6020B	Total Recoverable
Arsenic	0.95	J	5.0	0.75	ug/L	1		6020B	Total Recoverable
Barium	140		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	40000		1000	250	ug/L	1		6020B	Total Recoverable
Lithium	8.9		8.0	1.7	ug/L	1		6020B	Total Recoverable
Thallium	1.0		1.0	0.20	ug/L	1		6020B	Total Recoverable
Chloride	1.0		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.036	J	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	10		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 102423NMW8

Lab Sample ID: 240-194309-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	22		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	11000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.25	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Lithium	2.6	J	8.0	1.7	ug/L	1		6020B	Total Recoverable
Chloride	38		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.050		0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	18		1.0	0.35	mg/L	1		9056A	Total/NA

Client Sample ID: 102423NMWFGDW6

Lab Sample ID: 240-194309-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	89		5.0	2.2	ug/L	1		6020B	Total Recoverable
Calcium	20000		1000	250	ug/L	1		6020B	Total Recoverable
Cobalt	0.32	J	1.0	0.19	ug/L	1		6020B	Total Recoverable
Chloride	5.4		1.0	0.13	mg/L	1		9056A	Total/NA
Fluoride	0.044	J	0.050	0.024	mg/L	1		9056A	Total/NA
Sulfate	8.4		1.0	0.35	mg/L	1		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Client Sample ID: 102423NMW5

Lab Sample ID: 240-194309-1

Date Collected: 10/24/23 11:00

Matrix: Water

Date Received: 10/26/23 09:50

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/27/23 14:00	10/30/23 09:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.81	J	2.0	0.57	ug/L		10/27/23 14:00	10/30/23 15:52	1
Arsenic	0.95	J	5.0	0.75	ug/L		10/27/23 14:00	10/30/23 15:52	1
Barium	140		5.0	2.2	ug/L		10/27/23 14:00	10/30/23 15:52	1
Beryllium	<0.62		1.0	0.62	ug/L		10/27/23 14:00	10/30/23 15:52	1
Cadmium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 15:52	1
Calcium	40000		1000	250	ug/L		10/27/23 14:00	10/30/23 15:52	1
Chromium	<1.2		5.0	1.2	ug/L		10/27/23 14:00	10/30/23 15:52	1
Cobalt	<0.19		1.0	0.19	ug/L		10/27/23 14:00	10/30/23 15:52	1
Lead	<0.45		1.0	0.45	ug/L		10/27/23 14:00	10/30/23 15:52	1
Lithium	8.9		8.0	1.7	ug/L		10/27/23 14:00	10/30/23 15:52	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/27/23 14:00	10/30/23 15:52	1
Selenium	<0.89		5.0	0.89	ug/L		10/27/23 14:00	10/30/23 15:52	1
Thallium	1.0		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 15:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/27/23 14:00	10/30/23 14:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	1.0		1.0	0.13	mg/L			11/17/23 08:12	1
Fluoride (SW846 9056A)	0.036	J	0.050	0.024	mg/L			11/17/23 08:12	1
Sulfate (SW846 9056A)	10		1.0	0.35	mg/L			11/17/23 08:12	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0810	U	0.0802	0.0806	1.00	0.127	pCi/L	11/01/23 10:50	11/30/23 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		30 - 110					11/01/23 10:50	11/30/23 07:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.422	U	0.314	0.316	1.00	0.473	pCi/L	11/01/23 11:04	11/21/23 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.6		30 - 110					11/01/23 11:04	11/21/23 11:44	1
Y Carrier	81.9		30 - 110					11/01/23 11:04	11/21/23 11:44	1

Client Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Client Sample ID: 102423NMW5

Lab Sample ID: 240-194309-1

Date Collected: 10/24/23 11:00

Matrix: Water

Date Received: 10/26/23 09:50

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.503		0.324	0.326	5.00	0.473	pCi/L		11/30/23 12:53	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Client Sample ID: 102423NMW8

Lab Sample ID: 240-194309-2

Date Collected: 10/24/23 15:35

Matrix: Water

Date Received: 10/26/23 09:50

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/27/23 14:00	10/30/23 09:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/27/23 14:00	10/30/23 15:59	1
Arsenic	<0.75		5.0	0.75	ug/L		10/27/23 14:00	10/30/23 15:59	1
Barium	22		5.0	2.2	ug/L		10/27/23 14:00	10/30/23 15:59	1
Beryllium	<0.62		1.0	0.62	ug/L		10/27/23 14:00	10/30/23 15:59	1
Cadmium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 15:59	1
Calcium	11000		1000	250	ug/L		10/27/23 14:00	10/30/23 15:59	1
Chromium	<1.2		5.0	1.2	ug/L		10/27/23 14:00	10/30/23 15:59	1
Cobalt	0.25	J	1.0	0.19	ug/L		10/27/23 14:00	10/30/23 15:59	1
Lead	<0.45		1.0	0.45	ug/L		10/27/23 14:00	10/30/23 15:59	1
Lithium	2.6	J	8.0	1.7	ug/L		10/27/23 14:00	10/30/23 15:59	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/27/23 14:00	10/30/23 15:59	1
Selenium	<0.89		5.0	0.89	ug/L		10/27/23 14:00	10/30/23 15:59	1
Thallium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 15:59	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/27/23 14:00	10/30/23 14:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	38		1.0	0.13	mg/L			11/17/23 07:07	1
Fluoride (SW846 9056A)	0.050		0.050	0.024	mg/L			11/17/23 07:07	1
Sulfate (SW846 9056A)	18		1.0	0.35	mg/L			11/17/23 07:07	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.148	U	0.122	0.122	1.00	0.186	pCi/L	11/01/23 10:50	11/30/23 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		30 - 110					11/01/23 10:50	11/30/23 07:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.101	U	0.336	0.336	1.00	0.608	pCi/L	11/01/23 11:04	11/21/23 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	98.8		30 - 110					11/01/23 11:04	11/21/23 11:47	1
Y Carrier	81.5		30 - 110					11/01/23 11:04	11/21/23 11:47	1

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Client Sample ID: 102423NMW8

Lab Sample ID: 240-194309-2

Date Collected: 10/24/23 15:35

Matrix: Water

Date Received: 10/26/23 09:50

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.249	U	0.357	0.357	5.00	0.608	pCi/L		11/30/23 12:53	1

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Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Client Sample ID: 102423NMWFGDW6

Lab Sample ID: 240-194309-3

Date Collected: 10/24/23 15:40

Matrix: Water

Date Received: 10/26/23 09:50

Method: SW846 6010D - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/27/23 14:00	10/30/23 09:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/27/23 14:00	10/30/23 16:02	1
Arsenic	<0.75		5.0	0.75	ug/L		10/27/23 14:00	10/30/23 16:02	1
Barium	89		5.0	2.2	ug/L		10/27/23 14:00	10/30/23 16:02	1
Beryllium	<0.62		1.0	0.62	ug/L		10/27/23 14:00	10/30/23 16:02	1
Cadmium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 16:02	1
Calcium	20000		1000	250	ug/L		10/27/23 14:00	10/30/23 16:02	1
Chromium	<1.2		5.0	1.2	ug/L		10/27/23 14:00	10/30/23 16:02	1
Cobalt	0.32 J		1.0	0.19	ug/L		10/27/23 14:00	10/30/23 16:02	1
Lead	<0.45		1.0	0.45	ug/L		10/27/23 14:00	10/30/23 16:02	1
Lithium	<1.7		8.0	1.7	ug/L		10/27/23 14:00	10/30/23 16:02	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/27/23 14:00	10/30/23 16:02	1
Selenium	<0.89		5.0	0.89	ug/L		10/27/23 14:00	10/30/23 16:02	1
Thallium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 16:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/27/23 14:00	10/30/23 14:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (SW846 9056A)	5.4		1.0	0.13	mg/L			11/17/23 08:34	1
Fluoride (SW846 9056A)	0.044 J		0.050	0.024	mg/L			11/17/23 08:34	1
Sulfate (SW846 9056A)	8.4		1.0	0.35	mg/L			11/17/23 08:34	1

Method: SW846 9315 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.102	U	0.0935	0.0939	1.00	0.146	pCi/L	11/01/23 10:50	11/30/23 07:30	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					11/01/23 10:50	11/30/23 07:30	1

Method: SW846 9320 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.277	U	0.349	0.350	1.00	0.579	pCi/L	11/01/23 11:04	11/21/23 11:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.3		30 - 110					11/01/23 11:04	11/21/23 11:47	1
Y Carrier	83.7		30 - 110					11/01/23 11:04	11/21/23 11:47	1

Eurofins Cleveland

Client Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Client Sample ID: 102423NMWFGDW6

Lab Sample ID: 240-194309-3

Date Collected: 10/24/23 15:40

Matrix: Water

Date Received: 10/26/23 09:50

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.379	U	0.361	0.362	5.00	0.579	pCi/L		11/30/23 12:53	1

Tracer/Carrier Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Method: 9315 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)
240-194309-1	102423NMW5	92.6
240-194309-2	102423NMW8	98.8
240-194309-3	102423NMWFGDW6	97.3
240-194309-C-4-A MSD	Matrix Spike Duplicate	87.9
240-194309-I-4-A MS	Matrix Spike	90.1
LCS 160-634732/2-A	Lab Control Sample	95.3
MB 160-634732/1-A	Method Blank	96.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 9320 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

Percent Yield (Acceptance Limits)

Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
240-194309-1	102423NMW5	92.6	81.9
240-194309-2	102423NMW8	98.8	81.5
240-194309-3	102423NMWFGDW6	97.3	83.7
240-194309-C-4-B MSD	Matrix Spike Duplicate	87.9	80.4
240-194309-I-4-B MS	Matrix Spike	90.1	84.9
LCS 160-634743/2-A	Lab Control Sample	95.3	81.9
MB 160-634743/1-A	Method Blank	96.5	84.5

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 240-592562/1-A
Matrix: Water
Analysis Batch: 592658

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<57		100	57	ug/L		10/27/23 14:00	10/30/23 07:30	1

Lab Sample ID: LCS 240-592562/2-A
Matrix: Water
Analysis Batch: 592658

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1000	1050		ug/L		105	80 - 120

Lab Sample ID: 240-194309-H-4-B MS
Matrix: Water
Analysis Batch: 592658

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	<57		1000	1090		ug/L		109	75 - 125

Lab Sample ID: 240-194309-H-4-C MSD
Matrix: Water
Analysis Batch: 592658

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Boron	<57		1000	988		ug/L		99	75 - 125	10	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 240-592562/1-A
Matrix: Water
Analysis Batch: 592816

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.57		2.0	0.57	ug/L		10/27/23 14:00	10/30/23 15:33	1
Arsenic	<0.75		5.0	0.75	ug/L		10/27/23 14:00	10/30/23 15:33	1
Barium	<2.2		5.0	2.2	ug/L		10/27/23 14:00	10/30/23 15:33	1
Beryllium	<0.62		1.0	0.62	ug/L		10/27/23 14:00	10/30/23 15:33	1
Cadmium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 15:33	1
Calcium	<250		1000	250	ug/L		10/27/23 14:00	10/30/23 15:33	1
Chromium	<1.2		5.0	1.2	ug/L		10/27/23 14:00	10/30/23 15:33	1
Cobalt	<0.19		1.0	0.19	ug/L		10/27/23 14:00	10/30/23 15:33	1
Lead	<0.45		1.0	0.45	ug/L		10/27/23 14:00	10/30/23 15:33	1
Lithium	<1.7		8.0	1.7	ug/L		10/27/23 14:00	10/30/23 15:33	1
Molybdenum	<1.1		5.0	1.1	ug/L		10/27/23 14:00	10/30/23 15:33	1
Selenium	<0.89		5.0	0.89	ug/L		10/27/23 14:00	10/30/23 15:33	1
Thallium	<0.20		1.0	0.20	ug/L		10/27/23 14:00	10/30/23 15:33	1

Lab Sample ID: LCS 240-592562/4-A
Matrix: Water
Analysis Batch: 592816

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	101		ug/L		101	80 - 120

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

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

Lab Sample ID: LCS 240-592562/4-A
Matrix: Water
Analysis Batch: 592816

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	1000	907		ug/L		91	80 - 120
Barium	1000	946		ug/L		95	80 - 120
Beryllium	500	471		ug/L		94	80 - 120
Cadmium	500	477		ug/L		95	80 - 120
Calcium	25000	22800		ug/L		91	80 - 120
Chromium	500	470		ug/L		94	80 - 120
Cobalt	500	461		ug/L		92	80 - 120
Lead	500	474		ug/L		95	80 - 120
Lithium	500	474		ug/L		95	80 - 120
Molybdenum	500	465		ug/L		93	80 - 120
Selenium	1000	910		ug/L		91	80 - 120
Thallium	1000	961		ug/L		96	80 - 120

Lab Sample ID: 240-194309-H-4-D MS
Matrix: Water
Analysis Batch: 592816

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.57		100	99.2		ug/L		99	80 - 120
Arsenic	<0.75		1000	877		ug/L		88	80 - 120
Barium	170		1000	1080		ug/L		92	80 - 120
Beryllium	<0.62		500	456		ug/L		91	80 - 120
Cadmium	0.42	J	500	469		ug/L		94	80 - 120
Calcium	5400		25000	27200		ug/L		87	80 - 120
Chromium	<1.2		500	460		ug/L		92	80 - 120
Cobalt	2.1		500	437		ug/L		87	80 - 120
Lead	<0.45		500	454		ug/L		91	80 - 120
Lithium	2.3	J	500	458		ug/L		91	80 - 120
Molybdenum	<1.1		500	451		ug/L		90	80 - 120
Selenium	<0.89		1000	882		ug/L		88	80 - 120
Thallium	0.73	J	1000	934		ug/L		93	80 - 120

Lab Sample ID: 240-194309-H-4-E MSD
Matrix: Water
Analysis Batch: 592816

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.57		100	98.8		ug/L		99	80 - 120	0	20
Arsenic	<0.75		1000	893		ug/L		89	80 - 120	2	20
Barium	170		1000	1110		ug/L		94	80 - 120	2	20
Beryllium	<0.62		500	467		ug/L		93	80 - 120	2	20
Cadmium	0.42	J	500	475		ug/L		95	80 - 120	1	20
Calcium	5400		25000	28300		ug/L		92	80 - 120	4	20
Chromium	<1.2		500	468		ug/L		94	80 - 120	2	20
Cobalt	2.1		500	453		ug/L		90	80 - 120	4	20
Lead	<0.45		500	470		ug/L		94	80 - 120	3	20
Lithium	2.3	J	500	469		ug/L		93	80 - 120	2	20
Molybdenum	<1.1		500	465		ug/L		93	80 - 120	3	20
Selenium	<0.89		1000	893		ug/L		89	80 - 120	1	20

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

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

Lab Sample ID: 240-194309-H-4-E MSD
Matrix: Water
Analysis Batch: 592816

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 592562

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Thallium	0.73	J	1000	953		ug/L		95	80 - 120	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-592567/1-A
Matrix: Water
Analysis Batch: 592771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592567

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.13		0.20	0.13	ug/L		10/27/23 14:00	10/30/23 13:46	1

Lab Sample ID: LCS 240-592567/2-A
Matrix: Water
Analysis Batch: 592771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592567

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.09		ug/L		102	80 - 120

Lab Sample ID: 240-194309-H-4-G MS
Matrix: Water
Analysis Batch: 592771

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 592567

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.13		1.00	1.04		ug/L		104	80 - 120

Lab Sample ID: 240-194309-H-4-H MSD
Matrix: Water
Analysis Batch: 592771

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 592567

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.13		1.00	0.962		ug/L		96	80 - 120	8	20

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 240-594905/3
Matrix: Water
Analysis Batch: 594905

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.13		1.0	0.13	mg/L			11/16/23 23:32	1
Fluoride	<0.024		0.050	0.024	mg/L			11/16/23 23:32	1
Sulfate	<0.35		1.0	0.35	mg/L			11/16/23 23:32	1

Lab Sample ID: LCS 240-594905/4
Matrix: Water
Analysis Batch: 594905

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	50.0	47.4		mg/L		95	90 - 110
Fluoride	2.50	2.46		mg/L		98	90 - 110
Sulfate	50.0	49.1		mg/L		98	90 - 110

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: 240-194309-F-4 MS
Matrix: Water
Analysis Batch: 594905

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	0.56	J	50.0	50.5		mg/L		100	80 - 120
Fluoride	0.036	J	2.50	2.52		mg/L		100	80 - 120
Sulfate	12		50.0	63.4		mg/L		103	80 - 120

Lab Sample ID: 240-194309-F-4 MSD
Matrix: Water
Analysis Batch: 594905

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	0.56	J	50.0	49.1		mg/L		97	80 - 120	3	15
Fluoride	0.036	J	2.50	2.43		mg/L		96	80 - 120	4	15
Sulfate	12		50.0	61.9		mg/L		100	80 - 120	2	15

Method: 9315 - Radium-226 (GFPC)

Lab Sample ID: MB 160-634732/1-A
Matrix: Water
Analysis Batch: 638947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634732

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.003676	U	0.0535	0.0535	1.00	0.112	pCi/L	11/01/23 10:50	11/30/23 07:29	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.5		30 - 110					11/01/23 10:50	11/30/23 07:29	1

Lab Sample ID: LCS 160-634732/2-A
Matrix: Water
Analysis Batch: 638947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634732

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	9.933		1.04	1.00	0.107	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.3		30 - 110						

Lab Sample ID: 240-194309-C-4-A MSD
Matrix: Water
Analysis Batch: 638947

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 634732

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.186		11.4	10.94		1.15	1.00	0.136	pCi/L	94	60 - 140	0.23	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	87.9		30 - 110										

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QC Sample Results

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Method: 9315 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 240-194309-I-4-A MS
Matrix: Water
Analysis Batch: 638947

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 634732

Analyte	Sample	Sample	Spike Added	MS	MS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
	Result	Qual		Result	Qual						
Radium-226	0.186		11.4	11.49		1.19	1.00	0.121	pCi/L	99	60 - 140
MS MS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	90.1		30 - 110								

Method: 9320 - Radium-228 (GFPC)

Lab Sample ID: MB 160-634743/1-A
Matrix: Water
Analysis Batch: 637734

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634743

Analyte	MB	MB	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier								
Radium-228	-0.1240	U	0.198	0.198	1.00	0.426	pCi/L	11/01/23 11:04	11/21/23 11:44	1
MB MB										
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
Ba Carrier	96.5		30 - 110	11/01/23 11:04	11/21/23 11:44	1				
Y Carrier	84.5		30 - 110	11/01/23 11:04	11/21/23 11:44	1				

Lab Sample ID: LCS 160-634743/2-A
Matrix: Water
Analysis Batch: 637734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634743

Analyte	Spike Added	LCS	LCS	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
		Result	Qual						
Radium-228	7.70	7.747		1.10	1.00	0.444	pCi/L	101	75 - 125
LCS LCS									
Carrier	%Yield	Qualifier	Limits						
Ba Carrier	95.3		30 - 110						
Y Carrier	81.9		30 - 110						

Lab Sample ID: 240-194309-C-4-B MSD
Matrix: Water
Analysis Batch: 637733

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 634743

Analyte	Sample	Sample	Spike Added	MSD	MSD	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
	Result	Qual		Result	Qual								
Radium-228	0.975		7.76	9.219		1.30	1.00	0.580	pCi/L	106	60 - 140	0.43	1
MSD MSD													
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	87.9		30 - 110										
Y Carrier	80.4		30 - 110										

QC Sample Results

Client: Dominion Energy Services, Inc.
 Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Method: 9320 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 240-194309-I-4-B MS
Matrix: Water
Analysis Batch: 637733

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 634743

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	0.975		7.72	8.143		1.18	1.00	0.570	pCi/L	93	60 - 140
Carrier	%Yield	MS Qualifier	MS Limits								
Ba Carrier	90.1		30 - 110								
Y Carrier	84.9		30 - 110								

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Metals

Prep Batch: 592562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-1	102423NMW5	Total Recoverable	Water	3005A	
240-194309-2	102423NMW8	Total Recoverable	Water	3005A	
240-194309-3	102423NMWFGDW6	Total Recoverable	Water	3005A	
MB 240-592562/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-592562/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
LCS 240-592562/4-A	Lab Control Sample	Total Recoverable	Water	3005A	
240-194309-H-4-B MS	Matrix Spike	Total Recoverable	Water	3005A	
240-194309-H-4-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	
240-194309-H-4-D MS	Matrix Spike	Total Recoverable	Water	3005A	
240-194309-H-4-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 592567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-1	102423NMW5	Total/NA	Water	7470A	
240-194309-2	102423NMW8	Total/NA	Water	7470A	
240-194309-3	102423NMWFGDW6	Total/NA	Water	7470A	
MB 240-592567/1-A	Method Blank	Total/NA	Water	7470A	
LCS 240-592567/2-A	Lab Control Sample	Total/NA	Water	7470A	
240-194309-H-4-G MS	Matrix Spike	Total/NA	Water	7470A	
240-194309-H-4-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 592658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-1	102423NMW5	Total Recoverable	Water	6010D	592562
240-194309-2	102423NMW8	Total Recoverable	Water	6010D	592562
240-194309-3	102423NMWFGDW6	Total Recoverable	Water	6010D	592562
MB 240-592562/1-A	Method Blank	Total Recoverable	Water	6010D	592562
LCS 240-592562/2-A	Lab Control Sample	Total Recoverable	Water	6010D	592562
240-194309-H-4-B MS	Matrix Spike	Total Recoverable	Water	6010D	592562
240-194309-H-4-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010D	592562

Analysis Batch: 592771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-1	102423NMW5	Total/NA	Water	7470A	592567
240-194309-2	102423NMW8	Total/NA	Water	7470A	592567
240-194309-3	102423NMWFGDW6	Total/NA	Water	7470A	592567
MB 240-592567/1-A	Method Blank	Total/NA	Water	7470A	592567
LCS 240-592567/2-A	Lab Control Sample	Total/NA	Water	7470A	592567
240-194309-H-4-G MS	Matrix Spike	Total/NA	Water	7470A	592567
240-194309-H-4-H MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	592567

Analysis Batch: 592816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-1	102423NMW5	Total Recoverable	Water	6020B	592562
240-194309-2	102423NMW8	Total Recoverable	Water	6020B	592562
240-194309-3	102423NMWFGDW6	Total Recoverable	Water	6020B	592562
MB 240-592562/1-A	Method Blank	Total Recoverable	Water	6020B	592562
LCS 240-592562/4-A	Lab Control Sample	Total Recoverable	Water	6020B	592562
240-194309-H-4-D MS	Matrix Spike	Total Recoverable	Water	6020B	592562
240-194309-H-4-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	6020B	592562

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QC Association Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

General Chemistry

Analysis Batch: 594905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-1	102423NMW5	Total/NA	Water	9056A	
240-194309-2	102423NMW8	Total/NA	Water	9056A	
240-194309-3	102423NMWFGDW6	Total/NA	Water	9056A	
MB 240-594905/3	Method Blank	Total/NA	Water	9056A	
LCS 240-594905/4	Lab Control Sample	Total/NA	Water	9056A	
240-194309-F-4 MS	Matrix Spike	Total/NA	Water	9056A	
240-194309-F-4 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	

Rad

Prep Batch: 634732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-1	102423NMW5	Total/NA	Water	PrecSep-21	
240-194309-2	102423NMW8	Total/NA	Water	PrecSep-21	
240-194309-3	102423NMWFGDW6	Total/NA	Water	PrecSep-21	
MB 160-634732/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-634732/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
240-194309-C-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep-21	
240-194309-I-4-A MS	Matrix Spike	Total/NA	Water	PrecSep-21	

Prep Batch: 634743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194309-1	102423NMW5	Total/NA	Water	PrecSep_0	
240-194309-2	102423NMW8	Total/NA	Water	PrecSep_0	
240-194309-3	102423NMWFGDW6	Total/NA	Water	PrecSep_0	
MB 160-634743/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-634743/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
240-194309-C-4-B MSD	Matrix Spike Duplicate	Total/NA	Water	PrecSep_0	
240-194309-I-4-B MS	Matrix Spike	Total/NA	Water	PrecSep_0	

Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Client Sample ID: 102423NMW5

Lab Sample ID: 240-194309-1

Date Collected: 10/24/23 11:00

Matrix: Water

Date Received: 10/26/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592562	S4FJ	EET CLE	10/27/23 14:00
Total Recoverable	Analysis	6010D		1	592658	KLC	EET CLE	10/30/23 09:47
Total Recoverable	Prep	3005A			592562	S4FJ	EET CLE	10/27/23 14:00
Total Recoverable	Analysis	6020B		1	592816	RKT	EET CLE	10/30/23 15:52
Total/NA	Prep	7470A			592567	S4FJ	EET CLE	10/27/23 14:00
Total/NA	Analysis	7470A		1	592771	DSH	EET CLE	10/30/23 14:10
Total/NA	Analysis	9056A		1	594905	JWW	EET CLE	11/17/23 08:12
Total/NA	Prep	PrecSep-21			634732	KAC	EET SL	11/01/23 10:50
Total/NA	Analysis	9315		1	638947	FLC	EET SL	11/30/23 07:30
Total/NA	Prep	PrecSep_0			634743	KAC	EET SL	11/01/23 11:04
Total/NA	Analysis	9320		1	637734	FLC	EET SL	11/21/23 11:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	638954	SCB	EET SL	11/30/23 12:53

Client Sample ID: 102423NMW8

Lab Sample ID: 240-194309-2

Date Collected: 10/24/23 15:35

Matrix: Water

Date Received: 10/26/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592562	S4FJ	EET CLE	10/27/23 14:00
Total Recoverable	Analysis	6010D		1	592658	KLC	EET CLE	10/30/23 09:52
Total Recoverable	Prep	3005A			592562	S4FJ	EET CLE	10/27/23 14:00
Total Recoverable	Analysis	6020B		1	592816	RKT	EET CLE	10/30/23 15:59
Total/NA	Prep	7470A			592567	S4FJ	EET CLE	10/27/23 14:00
Total/NA	Analysis	7470A		1	592771	DSH	EET CLE	10/30/23 14:12
Total/NA	Analysis	9056A		1	594905	JWW	EET CLE	11/17/23 07:07
Total/NA	Prep	PrecSep-21			634732	KAC	EET SL	11/01/23 10:50
Total/NA	Analysis	9315		1	638947	FLC	EET SL	11/30/23 07:30
Total/NA	Prep	PrecSep_0			634743	KAC	EET SL	11/01/23 11:04
Total/NA	Analysis	9320		1	637733	FLC	EET SL	11/21/23 11:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	638954	SCB	EET SL	11/30/23 12:53

Client Sample ID: 102423NMWFGDW6

Lab Sample ID: 240-194309-3

Date Collected: 10/24/23 15:40

Matrix: Water

Date Received: 10/26/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			592562	S4FJ	EET CLE	10/27/23 14:00
Total Recoverable	Analysis	6010D		1	592658	KLC	EET CLE	10/30/23 09:56
Total Recoverable	Prep	3005A			592562	S4FJ	EET CLE	10/27/23 14:00
Total Recoverable	Analysis	6020B		1	592816	RKT	EET CLE	10/30/23 16:02
Total/NA	Prep	7470A			592567	S4FJ	EET CLE	10/27/23 14:00
Total/NA	Analysis	7470A		1	592771	DSH	EET CLE	10/30/23 14:14
Total/NA	Analysis	9056A		1	594905	JWW	EET CLE	11/17/23 08:34

Lab Chronicle

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Client Sample ID: 102423NMWFGDW6

Lab Sample ID: 240-194309-3

Date Collected: 10/24/23 15:40

Matrix: Water

Date Received: 10/26/23 09:50

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Analyst</u>	<u>Lab</u>	<u>Prepared or Analyzed</u>
Total/NA	Prep	PrecSep-21			634732	KAC	EET SL	11/01/23 10:50
Total/NA	Analysis	9315		1	638947	FLC	EET SL	11/30/23 07:30
Total/NA	Prep	PrecSep_0			634743	KAC	EET SL	11/01/23 11:04
Total/NA	Analysis	9320		1	637733	FLC	EET SL	11/21/23 11:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	638954	SCB	EET SL	11/30/23 12:53

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Accreditation/Certification Summary

Client: Dominion Energy Services, Inc.
Project/Site: MSPS-2SA2023-CCR-L

Job ID: 240-194309-1

Laboratory: Eurofins Cleveland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	210	12-31-23

Laboratory: Eurofins St. Louis

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	381	12-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Ra226_Ra228 Pos		Water	Radium 226 and 228



Eurofins - Cleveland Sample Receipt Form/Narrative
Barberton Facility

Login #: 194309


Client WSP USA Inc Site Name _____
Cooler Received on 10-26-23 Opened on 10-26-23
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Cooler unpacked by: _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box _____ Client Cooler _____ Box _____ Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None _____

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # 21 (CF -0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 5
 - Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 - Were tamper/custody seals intact and uncompromised? Yes No NA
 3. Shippers' packing slip attached to the cooler(s)? Yes No
 4. Did custody papers accompany the sample(s)? Yes No
 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
 10. Were correct bottle(s) used for the test(s) indicated? Yes No
 11. Sufficient quantity received to perform indicated analyses? Yes No
 12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719
 14. Were VOAs on the COC? Yes No
 15. Were air bubbles >6 mm in any VOA vials? Yes No NA  ← Larger than this.
 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
 17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____



Temperature readings:

Client Sample ID	Lab ID	Container Type	Container		Preservative	
			pH	Temp	Added (mls)	Lot #
102423NMW5	240-194309-B-1	Plastic 500ml - with Nitric Acid	<2			
102423NMW5	240-194309-C-1	Plastic 1 liter - Nitric Acid	<2			
102423NMW5	240-194309-D-1	Plastic 1 liter - Nitric Acid	<2			
102423NMW8	240-194309-B-2	Plastic 500ml - with Nitric Acid	<2			
102423NMW8	240-194309-C-2	Plastic 1 liter - Nitric Acid	<2			
102423NMW8	240-194309-D-2	Plastic 1 liter - Nitric Acid	<2			
102423NMWFGDW6	240-194309-B-3	Plastic 500ml - with Nitric Acid	<2			
102423NMWFGDW6	240-194309-C-3	Plastic 1 liter - Nitric Acid	<2			
102423NMWFGDW6	240-194309-D-3	Plastic 1 liter - Nitric Acid	<2			
102423NMW10	240-194309-B-4	Plastic 500ml - with Nitric Acid	<2			
102423NMW10	240-194309-C-4	Plastic 1 liter - Nitric Acid	<2			
102423NMW10	240-194309-D-4	Plastic 1 liter - Nitric Acid	<2			
102423FBFIELD BLANK	240-194309-B-5	Plastic 500ml - with Nitric Acid	<2			
102423FBFIELD BLANK	240-194309-C-5	Plastic 1 liter - Nitric Acid	<2			
102423FBFIELD BLANK	240-194309-D-5	Plastic 1 liter - Nitric Acid	<2			
102423NMW7	240-194309-B-6	Plastic 500ml - with Nitric Acid	<2			
102423NMW7	240-194309-C-6	Plastic 1 liter - Nitric Acid	<2			
102423NMW7	240-194309-D-6	Plastic 1 liter - Nitric Acid	<2			
102423NMW12R	240-194309-B-7	Plastic 500ml - with Nitric Acid	<2			
102423NMW12R	240-194309-C-7	Plastic 1 liter - Nitric Acid	<2			
102423NMW12R	240-194309-D-7	Plastic 1 liter - Nitric Acid	<2			
102423NMW6R	240-194309-B-8	Plastic 500ml - with Nitric Acid	<2			
102423NMW6R	240-194309-C-8	Plastic 1 liter - Nitric Acid	<2			
102423NMW6R	240-194309-D-8	Plastic 1 liter - Nitric Acid	<2			
102423NMW14	240-194309-B-9	Plastic 500ml - with Nitric Acid	<2			
102423NMW14	240-194309-C-9	Plastic 1 liter - Nitric Acid	<2			
102423NMW14	240-194309-D-9	Plastic 1 liter - Nitric Acid	<2			

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JAMES BISHOP
 EUROFINS
 1244 EXECUTIVE BLVD. SUITE F
 CHESAPEAKE VA 23320
 UNITED STATES US

RT 164
 6
 10:30
 A
 9228
 10.26

10.00 LB MAX
 0415933/CAFES753

Part 15600-434 MW/EXP 09/24
 1430/8208/753

0 SAMPLE RECEIVING
 EUROFINS CLEVELAND
 180 S. VAN BUREN

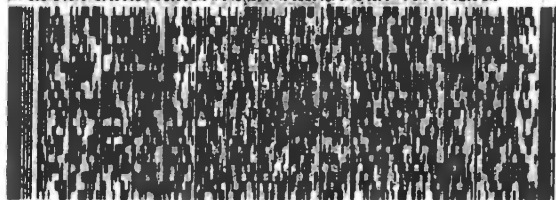
AL RECIPIENT

BARBERTON OH 44203

(330) 497-9300

REF:

DEPT:



FedEx
 Express



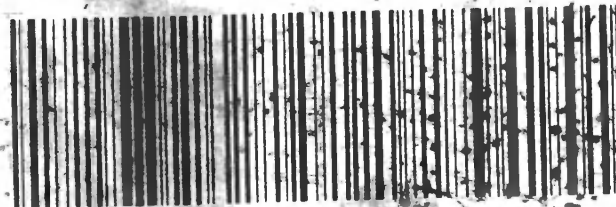
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 PRIORITY OVERNIGHT

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3734303 25Oct2023 NRBA 53161/BC88/C088

Inclement Testing
 Pan arica

9300



Client Information (Sub Contract Lab)		Sampler: Cisneros, Roxanne	Lab PM: Cisneros, Roxanne	Carrier Tracking No(s): 240-175855-1	COC No: 240-175855-1
Client Contact: TestAmerica Laboratories, Inc.		Phone: 314-298-8566(Tel) 314-298-8757(Fax)	E-Mail: roxanne.cisneros@et.eurofins.com	State of Origin: West Virginia	Page: Page 1 of 2
Address: 13715 Rider Trail North, Earth City, MO, 63045		Project #: Mount Storm Power Station	Accreditations Required (See note): State - West Virginia DEP; State Program - West Virginia ...	Job #: 240-194309-1	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)
Due Date Requested: 11/8/2023		PO #: 314-298-8566(Tel) 314-298-8757(Fax)	Field Filtered Sample (Yes or No)	Perform MSM/SD (Yes or No)	9315_Ra226/PreSep_21 Radium 226
TAT Requested (days):		WO #: 24021758	9320_Ra226/PreSep_0 Radium 226	Ra226_228GFP_C/PI Combined Radium-226 and	Radium-228
Sample Date		Project Name: Mount Storm Power Station	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oh, B=1-tissue, A=air)
Sample Identification - Client ID (Lab ID)		Site: 13715 Rider Trail North, Earth City, MO, 63045	Sample Date	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oh, B=1-tissue, A=air)
102423NMW5 (240-194309-1)	10/24/23	11:00 Eastern	Water	Water	Water
102423NMW8 (240-194309-2)	10/24/23	15:35 Eastern	Water	Water	Water
102423NMWFGDW6 (240-194309-3)	10/24/23	15:40 Eastern	Water	Water	Water
102423NMW10 (240-194309-4)	10/24/23	09:15 Eastern	Water	Water	Water
102423NMW10 (240-194309-4MS)	10/24/23	09:15 Eastern	MS	MS	Water
102423NMW10 (240-194309-4MSD)	10/24/23	09:15 Eastern	MSD	MSD	Water
102423FBFIELD BLANK (240-194309-5)	10/24/23	10:10 Eastern	Water	Water	Water
102423NMW7 (240-194309-6)	10/24/23	13:05 Eastern	Water	Water	Water
102423NMW12R (240-194309-7)	10/24/23	10:35 Eastern	Water	Water	Water
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.</p>					
<p>Possible Hazard Identification</p> <p>Unconfirmed <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months</p> <p>Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2</p>					
<p>Empty Kit Relinquished by: _____ Date: _____</p> <p>Relinquished by: _____ Date/Time: _____</p> <p>Relinquished by: _____ Date/Time: _____</p> <p>Relinquished by: _____ Date/Time: _____</p>					
<p>Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Δ <input type="checkbox"/> No</p> <p>Custody Seal No.: _____</p>					
<p>Cooler Temperature(s) °C and Other Remarks: _____</p>					



Login Sample Receipt Checklist

Client: Dominion Energy Services, Inc.

Job Number: 240-194309-1

Login Number: 194309

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 10/30/23 02:48 PM

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



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

**Mt. Storm Power Station Groundwater Sampling
Samples Collected between: 10/23/2023 and 10/26/2023**

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:

2401941923

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
102323NMWFGDW2	MWFGDW2	N	SM 2540C	Total Dissolved Solids	N	190	J	H	10	10		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	240-194192-1
Sys Sample Code	102323NMW22
Sample Name	102323NMW22
Sample Date	10/23/2023 2:35:00 PM
Location	MSPS-BKGD-MW-22 / MW-22
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	340				10	10	10	Y	Yes	1	NA

Lab Sample ID	240-194192-2
Sys Sample Code	102323NMWFGDW2
Sample Name	102323NMWFGDW2
Sample Date	10/23/2023 4:50:00 PM
Location	MSPS-BKGD-MWFGDW2 / MWFGDW2
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	190	J	H		10	10	10	Y	Yes	1	NA

Lab Sample ID	240-194192-4
Sys Sample Code	102323FDDUPLICATE
Sample Name	102323FDDUPLICATE
Sample Date	10/23/2023 2:45:00 AM
Location	MSPS-BKGD-MW-22 / MW-22
Sample Type	FD
Matrix	GW
Parent Sample	102323NMW22

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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	340				10	10	10	Y	Yes	1	NA

Lab Sample ID	240-194306-7
Sys Sample Code	102423NMW10
Sample Name	102423NMW10
Sample Date	10/24/2023 9:15:00 AM
Location	MSPS-LFAB-MW-10 / MW-10
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	28				10	10	10	Y	Yes	1	NA

Lab Sample ID	240-194306-8
Sys Sample Code	102423FBBFIELDBLANK
Sample Name	102423FBBFIELDBLANK
Sample Date	10/24/2023 10:10:00 AM
Location	MSPS-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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L		U			10	10	10	N	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:

**Mt. Storm Power Station Groundwater Sampling
Samples Collected between: 10/23/2023 and 10/26/2023**

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:

2401943061

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:

Based on QA review, qualification of data was not warranted.

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	240-194306-1
Sys Sample Code	102423NMW5
Sample Name	102423NMW5
Sample Date	10/24/2023 11:00:00 AM
Location	MSPS-LFAB-MW-05 / MW-5
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	140				10	10	10	Y	Yes	1	NA

Lab Sample ID	240-194306-2
Sys Sample Code	102423NMW8
Sample Name	102423NMW8
Sample Date	10/24/2023 3:35:00 PM
Location	MSPS-LFAB-MW-08 / MW-8
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	100				10	10	10	Y	Yes	1	NA

Lab Sample ID	240-194306-3
Sys Sample Code	102423NMWFGDW6
Sample Name	102423NMWFGDW6
Sample Date	10/24/2023 3:40:00 PM
Location	MSPS-LFAB-MWFGDW6 / MWFGDW6
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
SM 2540C	Total Dissolved Solids	TDS	N	mg/L	71				10	10	10	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:

**Mt. Storm Power Station Groundwater Sampling
Samples Collected between: 10/23/2023 and 10/26/2023**

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:

2401941922

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
102323NMW22	MW-22	N	CALC	Radium-226/228	N	0.285	J	FD,S			0.388	pCi/L
102323NMW22	MW-22	N	SW-846 6020B	Antimony	T	0.68	J	RL	0.57	2.0		ug/L
102323NMW22	MW-22	N	SW-846 6020B	Arsenic	T	0.88	J	RL	0.75	5.0		ug/L
102323NMW22	MW-22	N	SW-846 6020B	Cadmium	T	0.21	J	RL	0.20	1.0		ug/L
102323NMW22	MW-22	N	SW-846 6020B	Cobalt	T	0.34	J	RL	0.19	1.0		ug/L
102323NMW22	MW-22	N	SW-846 6020B	Selenium	T	1.2	J	RL	0.89	5.0		ug/L
102323NMW22	MW-22	N	SW-846 9056A	Chloride	N	0.59	J	RL	0.13	1.0		mg/L
102323NMW22	MW-22	N	SW-846 9056A	Fluoride	N	0.027	J	RL	0.024	0.050		mg/L
102323NMW22	MW-22	N	SW-846 9320	Radium-228	N	0.148	UJ	FD	0.662	1.00	0.379	pCi/L
102323NMWFGDW2	MWFGDW2	N	CALC	Radium-226/228	N	0.742	J	BL			0.369	pCi/L
102323NMWFGDW2	MWFGDW2	N	SW-846 6020B	Thallium	T	0.63	J	RL	0.20	1.0		ug/L
102323NMWFGDW2	MWFGDW2	N	SW-846 9056A	Chloride	N	0.64	J	RL	0.13	1.0		mg/L
102323NMWFGDW2	MWFGDW2	N	SW-846 9320	Radium-228	N	0.618	U	BL	0.618	1.00	0.361	pCi/L
102323FDDUPLICATE	MW-22	FD	CALC	Radium-226/228	N	1.79	J	FD,S			0.496	pCi/L
102323FDDUPLICATE	MW-22	FD	SW-846 6020B	Beryllium	T	0.66	J	RL	0.62	1.0		ug/L
102323FDDUPLICATE	MW-22	FD	SW-846 6020B	Cobalt	T	0.25	J	RL	0.19	1.0		ug/L
102323FDDUPLICATE	MW-22	FD	SW-846 6020B	Molybdenum	T	1.1	J	RL	1.1	5.0		ug/L
102323FDDUPLICATE	MW-22	FD	SW-846 6020B	Selenium	T	1.2	J	RL	0.89	5.0		ug/L
102323FDDUPLICATE	MW-22	FD	SW-846 6020B	Thallium	T	0.87	J	RL	0.20	1.0		ug/L
102323FDDUPLICATE	MW-22	FD	SW-846 9056A	Chloride	N	0.68	J	RL	0.13	1.0		mg/L
102323FDDUPLICATE	MW-22	FD	SW-846 9056A	Fluoride	N	0.042	J	RL	0.024	0.050		mg/L
102323FDDUPLICATE	MW-22	FD	SW-846 9320	Radium-228	N	1.54	J	FD	0.432	1.00	0.440	pCi/L
102423NMW10	MW-10	N	SW-846 6020B	Cadmium	T	0.42	J	RL	0.20	1.0		ug/L
102423NMW10	MW-10	N	SW-846 6020B	Lithium	T	2.3	J	RL	1.7	8.0		ug/L
102423NMW10	MW-10	N	SW-846 6020B	Thallium	T	0.73	J	RL	0.20	1.0		ug/L
102423NMW10	MW-10	N	SW-846 9056A	Chloride	N	0.56	J	RL	0.13	1.0		mg/L
102423NMW10	MW-10	N	SW-846 9056A	Fluoride	N	0.036	J	RL	0.024	0.050		mg/L
102423FBFIELDLANK	Field Blank	FB	CALC	Radium-226/228	N	0.00403	U	S			0.316	pCi/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	240-194192-1
Sys Sample Code	102323NMW22
Sample Name	102323NMW22
Sample Date	10/23/2023 2:35:00 PM
Location	MSPS-BKGD-MW-22 / MW-22
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	RA226/228	N	pCi/L	0.285	J	FD,S	0.388				Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L	0.68	J	RL		0.57	0.57	2.0	Y	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.88	J	RL		0.75	0.75	5.0	Y	Yes	1	NA
	Barium	7440-39-3	T	ug/L	290				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.21	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	110000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.34	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	9.6				1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
SW-846 7470A	Selenium	7782-49-2	T	ug/L	1.2	J	RL		0.89	0.89	5.0	Y	Yes	1	NA
	Thallium	7440-28-0	T	ug/L	1.1				0.20	0.20	1.0	Y	Yes	1	NA
SW-846 9056A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9315	Chloride	16887-00-6	N	mg/L	0.59	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.027	J	RL		0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	22				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9320	Radium-226	13982-63-3	N	pCi/L	0.137			0.0841	0.111	0.111	1.00	Y	Yes	1	NA
	Radium-228	15262-20-1	N	pCi/L	0.148	UJ	FD	0.379	0.662	0.662	1.00	N	Yes	1	NA

Lab Sample ID	240-194192-2
Sys Sample Code	102323NMWFGDW2
Sample Name	102323NMWFGDW2
Sample Date	10/23/2023 4:50:00 PM
Location	MSPS-BKGD-MWFGDW2 / MWFGDW2
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	RA226/228	N	pCi/L	0.742	J	BL	0.369				Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	250				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	54000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.19	0.19	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	8.3				1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
Thallium	7440-28-0	T	ug/L	0.63	J	RL		0.20	0.20	1.0	Y	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	0.64	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.063				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	41				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.124			0.0768	0.0977	0.0977	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.618	U	BL	0.361	0.618	0.618	1.00	N	Yes	1	NA

Lab Sample ID	240-194192-4
Sys Sample Code	102323FDDUPLICATE
Sample Name	102323FDDUPLICATE
Sample Date	10/23/2023 2:45:00 AM
Location	MSPS-BKGD-MW-22 / MW-22
Sample Type	FD
Matrix	GW
Parent Sample	102323NMW22

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	RA226/228	N	pCi/L	1.79	J	FD,S	0.496				Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	300				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L	0.66	J	RL		0.62	0.62	1.0	Y	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	110000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.25	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	9.5				1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L	1.1	J	RL		1.1	1.1	5.0	Y	Yes	1	NA
	Selenium	7782-49-2	T	ug/L	1.2	J	RL		0.89	0.89	5.0	Y	Yes	1	NA
Thallium	7440-28-0	T	ug/L	0.87	J	RL		0.20	0.20	1.0	Y	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	0.68	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.042	J	RL		0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	24				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.249	U		0.229	0.357	0.357	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	1.54	J	FD	0.440	0.432	0.432	1.00	Y	Yes	1	NA

Lab Sample ID	240-194309-4
Sys Sample Code	102423NMW10
Sample Name	102423NMW10
Sample Date	10/24/2023 9:15:00 AM
Location	MSPS-LFAB-MW-10 / MW-10
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	RA226/228	N	pCi/L	1.16			0.439				Y	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	170				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L	0.42	J	RL		0.20	0.20	1.0	Y	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	5400				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	2.1				0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	2.3	J	RL		1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA	
Thallium	7440-28-0	T	ug/L	0.73	J	RL		0.20	0.20	1.0	Y	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	0.56	J	RL		0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.036	J	RL		0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	12				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.186			0.0990	0.124	0.124	1.00	Y	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.975			0.428	0.559	0.559	1.00	Y	Yes	1	NA

Lab Sample ID	240-194309-5
Sys Sample Code	102423FBFIELDBLANK
Sample Name	102423FBFIELDBLANK
Sample Date	10/24/2023 10:10:00 AM
Location	MSPS-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	RA226/228	N	pCi/L	0.00403	U	S	0.316				N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L		U			2.2	2.2	5.0	N	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L		U			250	250	1000	N	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.19	0.19	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			1.7	1.7	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
	Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA
Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L		U			0.13	0.13	1.0	N	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L		U			0.024	0.024	0.050	N	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L		U			0.35	0.35	1.0	N	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.00403	U		0.0697	0.137	0.137	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	-0.00964	U		0.308	0.581	0.581	1.00	N	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:

**Mt. Storm Power Station Groundwater Sampling
Samples Collected between: 10/23/2023 and 10/26/2023**

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:

2401943091

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
102423NMW5	MW-5	N	SW-846 6020B	Antimony	T	0.81	J	RL	0.57	2.0		ug/L
102423NMW5	MW-5	N	SW-846 6020B	Arsenic	T	0.95	J	RL	0.75	5.0		ug/L
102423NMW5	MW-5	N	SW-846 9056A	Fluoride	N	0.036	J	RL	0.024	0.050		mg/L
102423NMW8	MW-8	N	SW-846 6020B	Cobalt	T	0.25	J	RL	0.19	1.0		ug/L
102423NMW8	MW-8	N	SW-846 6020B	Lithium	T	2.6	J	RL	1.7	8.0		ug/L
102423NMWFGDW6	MWFGDW6	N	SW-846 6020B	Cobalt	T	0.32	J	RL	0.19	1.0		ug/L
102423NMWFGDW6	MWFGDW6	N	SW-846 9056A	Fluoride	N	0.044	J	RL	0.024	0.050		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	240-194309-1
Sys Sample Code	102423NMW5
Sample Name	102423NMW5
Sample Date	10/24/2023 11:00:00 AM
Location	MSPS-LFAB-MW-05 / MW-5
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	RA226/228	N	pCi/L	0.503	U		0.326				N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L	0.81	J	RL		0.57	0.57	2.0	Y	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L	0.95	J	RL		0.75	0.75	5.0	Y	Yes	1	NA
	Barium	7440-39-3	T	ug/L	140				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	40000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L		U			0.19	0.19	1.0	N	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	8.9				1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA	
Thallium	7440-28-0	T	ug/L	1.0				0.20	0.20	1.0	Y	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	1.0				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.036	J	RL		0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	10				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.0810	U		0.0806	0.127	0.127	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.422	U		0.316	0.473	0.473	1.00	N	Yes	1	NA

Lab Sample ID	240-194309-2
Sys Sample Code	102423NMW8
Sample Name	102423NMW8
Sample Date	10/24/2023 3:35:00 PM
Location	MSPS-LFAB-MW-08 / MW-8
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	RA226/228	N	pCi/L	0.249	U		0.357				N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	22				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	11000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.25	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L	2.6	J	RL		1.7	1.7	8.0	Y	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA	
Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	38				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.050				0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	18				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.148	U		0.122	0.186	0.186	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.101	U		0.336	0.608	0.608	1.00	N	Yes	1	NA

Lab Sample ID	240-194309-3
Sys Sample Code	102423NMWFGDW6
Sample Name	102423NMWFGDW6
Sample Date	10/24/2023 3:40:00 PM
Location	MSPS-LFAB-MWFGDW6 / MWFGDW6
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	RA226/228	N	pCi/L	0.379	U		0.362				N	Yes	1	NA
SW-846 6010D	Boron	7440-42-8	T	ug/L		U			57	57	100	N	Yes	1	NA
SW-846 6020B	Antimony	7440-36-0	T	ug/L		U			0.57	0.57	2.0	N	Yes	1	NA
	Arsenic	7440-38-2	T	ug/L		U			0.75	0.75	5.0	N	Yes	1	NA
	Barium	7440-39-3	T	ug/L	89				2.2	2.2	5.0	Y	Yes	1	NA
	Beryllium	7440-41-7	T	ug/L		U			0.62	0.62	1.0	N	Yes	1	NA
	Cadmium	7440-43-9	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA
	Calcium	7440-70-2	T	ug/L	20000				250	250	1000	Y	Yes	1	NA
	Chromium	7440-47-3	T	ug/L		U			1.2	1.2	5.0	N	Yes	1	NA
	Cobalt	7440-48-4	T	ug/L	0.32	J	RL		0.19	0.19	1.0	Y	Yes	1	NA
	Lead	7439-92-1	T	ug/L		U			0.45	0.45	1.0	N	Yes	1	NA
	Lithium	7439-93-2	T	ug/L		U			1.7	1.7	8.0	N	Yes	1	NA
	Molybdenum	7439-98-7	T	ug/L		U			1.1	1.1	5.0	N	Yes	1	NA
Selenium	7782-49-2	T	ug/L		U			0.89	0.89	5.0	N	Yes	1	NA	
Thallium	7440-28-0	T	ug/L		U			0.20	0.20	1.0	N	Yes	1	NA	
SW-846 7470A	Mercury	7439-97-6	T	ug/L		U			0.13	0.13	0.20	N	Yes	1	NA
SW-846 9056A	Chloride	16887-00-6	N	mg/L	5.4				0.13	0.13	1.0	Y	Yes	1	NA
	Fluoride	16984-48-8	N	mg/L	0.044	J	RL		0.024	0.024	0.050	Y	Yes	1	NA
	Sulfate	14808-79-8	N	mg/L	8.4				0.35	0.35	1.0	Y	Yes	1	NA
SW-846 9315	Radium-226	13982-63-3	N	pCi/L	0.102	U		0.0939	0.146	0.146	1.00	N	Yes	1	NA
SW-846 9320	Radium-228	15262-20-1	N	pCi/L	0.277	U		0.350	0.579	0.579	1.00	N	Yes	1	NA

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