Luminant

Dynegy Midwest Generation, LLC
1500 Eastport Plaza Drive
Collinsville, IL 62234

March 9, 2024

Illinois Environmental Protection Agency
DWPC – Permits MC#15
Attn: Part 845 Coal Combustion Residual Rule Submittal
1021 North Grand Avenue East
Springfield, IL 62794

Re: Vermilion Power Plant North Ash Pond (NAP) and Old East Ash Pond (OEAP); IEPA ID # W1838000002-01 and W1838000002-03

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 4, 2023 sampling event at the Vermilion Power Plant North Ash Pond and Old East Ash Pond, identified by Illinois Environmental Protection Agency (IEPA) ID Nos. W1838000002-01 and W1838000002-03. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS. Since Quarter 4, 2023 results were not available for inclusion in the 2023 Annual Groundwater Monitoring and Corrective Action Report (2023 Annual Report), this document also serves as an addendum to the 2023 Annual Report.

The date of this submittal is considered to be the date that exceedances of the GWPSs were detected. This notification of exceedances of the GWPSs in 35 I.A.C. § 845.600 will be placed in the facility's operating record within 30 days as required by 35 I.A.C. § 845.800(d)(16).

A Corrective Measures Assessment (CMA) was submitted on January 28, 2022 in accordance with 35 I.A.C. § 845.660. GWPS exceedances for subsequent events will be incorporated into the CMA on a case by case basis, as opposed to generating a new CMA. As allowed in 35 I.A.C. § 845.650(e), an alternative source demonstration (ASD) will be evaluated for the detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to IEPA within 60 days of this transmittal.

Sincerely,

Dianna Tickner

Dianna Tickner, PE, PMP
Senior Director, Demolition and Decommission

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 4, 2023, North Ash Pond (NAP) and Old East Ash Pond (OEAP), Vermilion Power Plant, Oakwood, Illinois

RAMBOLL

ENVIRONMENT
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35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 3, 2023
NORTH ASH POND (NAP) AND OLD EAST ASH POND (OEAP), VERMILION POWER PLANT, OAKWOOD, ILLINOIS

March 9, 2024

Samples were collected on November 27-29, 2023 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on January 9, 2024. Since Quarter 4, 2023 results were not available for inclusion in the 2023 Annual Groundwater Monitoring and Corrective Action Report (2023 Annual Report), this document also serves as an addendum to the 2023 Annual Report.

The monitoring well locations are included in **Figure 1**. **Attachment A** summarizes the groundwater elevation data for the Quarter 4, 2023 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 4, 2023 sampling event. The monitoring well 07R groundwater elevation provided in **Attachment A** was recorded by a pressure transducer. Monitoring well 07R was not sampled due to an obstruction above the screen interval.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan[1] provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 4, 2023 groundwater monitoring data were evaluated for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

In accordance with 35 I.A.C. § 845.610(b)(3)(C), the statistically derived values identified as Statistical Results in **Table 2** were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS, as shown in **Table 2**. The date of this submittal is considered to be the date that the exceedances were detected.

A Corrective Measures Assessment (CMA) was submitted on January 28, 2022 in accordance with 35 I.A.C. § 845.660. GWPS exceedances for subsequent events will be incorporated into the CMA on a case by case basis, as opposed to generating a new CMA. As allowed in 35 I.A.C. § 845.650(e), an alternative source demonstration (ASD) will be evaluated for the detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to Illinois Environmental Protection Agency (IEPA) within 60 days of this transmittal.

TABLES

FIGURES

[1] Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. North Ash Pond and Old East Ash Pond. Vermilion Power Plant. Oakwood, Illinois. October 25, 2021.*

ATTACHMENTS

Attachment A Groundwater Elevation Data - Quarter 4, 2023
Attachment B Laboratory Reports and Field Data Sheets - Quarter 4, 2023
Attachment C Comparison of Statistical Results to Background - Quarter 4, 2023

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
21	Background	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
21	Background	E003	11/28/2023	Arsenic, total	0.0550	mg/L
21	Background	E003	11/28/2023	Barium, total	0.120	mg/L
21	Background	E003	11/28/2023	Beryllium, total	0.00053 U	mg/L
21	Background	E003	11/28/2023	Boron, total	0.820	mg/L
21	Background	E003	11/28/2023	Cadmium, total	0.00017 U	mg/L
21	Background	E003	11/28/2023	Calcium, total	56.0	mg/L
21	Background	E003	11/28/2023	Chloride, total	1.60	mg/L
21	Background	E003	11/28/2023	Chromium, total	0.0011 U	mg/L
21	Background	E003	11/28/2023	Cobalt, total	0.0004 U	mg/L
21	Background	E003	11/28/2023	Dissolved Oxygen	0.420	mg/L
21	Background	E003	11/28/2023	Fluoride, total	1.10	mg/L
21	Background	E003	11/28/2023	Lead, total	0.00019 U	mg/L
21	Background	E003	11/28/2023	Lithium, total	0.002 U	mg/L
21	Background	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
21	Background	E003	11/28/2023	Molybdenum, total	0.0042 J	mg/L
21	Background	E003	11/28/2023	Oxidation Reduction Potential	-138	mV
21	Background	E003	11/28/2023	pH (field)	7.6	SU
21	Background	E003	11/28/2023	Radium 226 + Radium 228, total	1.15	pCi/L
21	Background	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L
21	Background	E003	11/28/2023	Specific Conductance @ 25C (field)	644	micromhos/cm
21	Background	E003	11/28/2023	Sulfate, total	1.50	mg/L
21	Background	E003	11/28/2023	Temperature	11.1	degrees C
21	Background	E003	11/28/2023	Thallium, total	0.00057 U	mg/L
21	Background	E003	11/28/2023	Total Dissolved Solids	400 J+	mg/L
21	Background	E003	11/28/2023	Turbidity, field	7.42	NTU
42	Background	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
42	Background	E003	11/28/2023	Arsenic, total	0.0200	mg/L
42	Background	E003	11/28/2023	Barium, total	0.170	mg/L
42	Background	E003	11/28/2023	Beryllium, total	0.00053 U	mg/L
42	Background	E003	11/28/2023	Boron, total	0.570 J+	mg/L
42	Background	E003	11/28/2023	Cadmium, total	0.00017 U	mg/L
42	Background	E003	11/28/2023	Calcium, total	82.0	mg/L
42	Background	E003	11/28/2023	Chloride, total	16.0	mg/L
42	Background	E003	11/28/2023	Chromium, total	0.0011 U	mg/L
42	Background	E003	11/28/2023	Cobalt, total	0.00046 J	mg/L
42	Background	E003	11/28/2023	Dissolved Oxygen	0.240	mg/L
42	Background	E003	11/28/2023	Fluoride, total	0.520	mg/L
42	Background	E003	11/28/2023	Lead, total	0.00047 J	mg/L
42	Background	E003	11/28/2023	Lithium, total	0.005 UJ	mg/L
42	Background	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
42	Background	E003	11/28/2023	Molybdenum, total	0.0025 U	mg/L
42	Background	E003	11/28/2023	Oxidation Reduction Potential	-183	mV
42	Background	E003	11/28/2023	pH (field)	7.6	SU
42	Background	E003	11/28/2023	Radium 226 + Radium 228, total	0.703	pCi/L
42	Background	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L

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VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
42	Background	E003	11/28/2023	Specific Conductance @ 25C (field)	849	micromhos/cm
42	Background	E003	11/28/2023	Sulfate, total	39.0	mg/L
42	Background	E003	11/28/2023	Temperature	9.78	degrees C
42	Background	E003	11/28/2023	Thallium, total	0.00057 U	mg/L
42	Background	E003	11/28/2023	Total Dissolved Solids	590	mg/L
42	Background	E003	11/28/2023	Turbidity, field	35.1	NTU
43	Background	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
43	Background	E003	11/28/2023	Arsenic, total	0.00960	mg/L
43	Background	E003	11/28/2023	Barium, total	0.510	mg/L
43	Background	E003	11/28/2023	Beryllium, total	0.00053 U	mg/L
43	Background	E003	11/28/2023	Boron, total	1.10	mg/L
43	Background	E003	11/28/2023	Cadmium, total	0.00017 U	mg/L
43	Background	E003	11/28/2023	Calcium, total	68.0	mg/L
43	Background	E003	11/28/2023	Chloride, total	75.0	mg/L
43	Background	E003	11/28/2023	Chromium, total	0.0013 J	mg/L
43	Background	E003	11/28/2023	Cobalt, total	0.00066 J	mg/L
43	Background	E003	11/28/2023	Dissolved Oxygen	0.670	mg/L
43	Background	E003	11/28/2023	Fluoride, total	0.480	mg/L
43	Background	E003	11/28/2023	Lead, total	0.000950	mg/L
43	Background	E003	11/28/2023	Lithium, total	0.0110 J+	mg/L
43	Background	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
43	Background	E003	11/28/2023	Molybdenum, total	0.0025 U	mg/L
43	Background	E003	11/28/2023	Oxidation Reduction Potential	-152	mV
43	Background	E003	11/28/2023	pH (field)	7.4	SU
43	Background	E003	11/28/2023	Radium 226 + Radium 228, total	1.52	pCi/L
43	Background	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L
43	Background	E003	11/28/2023	Specific Conductance @ 25C (field)	999	micromhos/cm
43	Background	E003	11/28/2023	Sulfate, total	2.50	mg/L
43	Background	E003	11/28/2023	Temperature	9.82	degrees C
43	Background	E003	11/28/2023	Thallium, total	0.00057 U	mg/L
43	Background	E003	11/28/2023	Total Dissolved Solids	650	mg/L
43	Background	E003	11/28/2023	Turbidity, field	13.3	NTU
101	Background	E003	11/27/2023	Antimony, total	0.0013 U	mg/L
101	Background	E003	11/27/2023	Arsenic, total	0.0530	mg/L
101	Background	E003	11/27/2023	Barium, total	0.130	mg/L
101	Background	E003	11/27/2023	Beryllium, total	0.00053 U	mg/L
101	Background	E003	11/27/2023	Boron, total	2.30	mg/L
101	Background	E003	11/27/2023	Cadmium, total	0.00017 U	mg/L
101	Background	E003	11/27/2023	Calcium, total	56.0	mg/L
101	Background	E003	11/27/2023	Chloride, total	9.90	mg/L
101	Background	E003	11/27/2023	Chromium, total	0.0012 J	mg/L
101	Background	E003	11/27/2023	Cobalt, total	0.00042 J	mg/L
101	Background	E003	11/27/2023	Dissolved Oxygen	0.520	mg/L
101	Background	E003	11/27/2023	Fluoride, total	0.820	mg/L
101	Background	E003	11/27/2023	Lead, total	0.00032 J	mg/L
101	Background	E003	11/27/2023	Lithium, total	0.00540 J+	mg/L

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VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
101	Background	E003	11/27/2023	Mercury, total	0.000079 U	mg/L
101	Background	E003	11/27/2023	Molybdenum, total	0.0025 U	mg/L
101	Background	E003	11/27/2023	Oxidation Reduction Potential	-146	mV
101	Background	E003	11/27/2023	pH (field)	7.6	SU
101	Background	E003	11/27/2023	Radium 226 + Radium 228, total	0.957	pCi/L
101	Background	E003	11/27/2023	Selenium, total	0.003 UJ	mg/L
101	Background	E003	11/27/2023	Specific Conductance @ 25C (field)	837	micromhos/cm
101	Background	E003	11/27/2023	Sulfate, total	7.70	mg/L
101	Background	E003	11/27/2023	Temperature	10.6	degrees C
101	Background	E003	11/27/2023	Thallium, total	0.00057 U	mg/L
101	Background	E003	11/27/2023	Total Dissolved Solids	550	mg/L
101	Background	E003	11/27/2023	Turbidity, field	24.1	NTU
103	Background	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
103	Background	E003	11/28/2023	Arsenic, total	0.00150	mg/L
103	Background	E003	11/28/2023	Barium, total	0.0280	mg/L
103	Background	E003	11/28/2023	Beryllium, total	0.00053 U	mg/L
103	Background	E003	11/28/2023	Boron, total	0.470 J+	mg/L
103	Background	E003	11/28/2023	Cadmium, total	0.00017 U	mg/L
103	Background	E003	11/28/2023	Calcium, total	210	mg/L
103	Background	E003	11/28/2023	Chloride, total	8.50	mg/L
103	Background	E003	11/28/2023	Chromium, total	0.0011 U	mg/L
103	Background	E003	11/28/2023	Cobalt, total	0.00120	mg/L
103	Background	E003	11/28/2023	Dissolved Oxygen	2.87	mg/L
103	Background	E003	11/28/2023	Fluoride, total	0.290	mg/L
103	Background	E003	11/28/2023	Lead, total	0.00027 J	mg/L
103	Background	E003	11/28/2023	Lithium, total	0.0660	mg/L
103	Background	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
103	Background	E003	11/28/2023	Molybdenum, total	0.00710	mg/L
103	Background	E003	11/28/2023	Oxidation Reduction Potential	226	mV
103	Background	E003	11/28/2023	pH (field)	7.2	SU
103	Background	E003	11/28/2023	Radium 226 + Radium 228, total	0.724	pCi/L
103	Background	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L
103	Background	E003	11/28/2023	Specific Conductance @ 25C (field)	2,229	micromhos/cm
103	Background	E003	11/28/2023	Sulfate, total	1,100	mg/L
103	Background	E003	11/28/2023	Temperature	10.2	degrees C
103	Background	E003	11/28/2023	Thallium, total	0.00057 U	mg/L
103	Background	E003	11/28/2023	Total Dissolved Solids	2,100	mg/L
103	Background	E003	11/28/2023	Turbidity, field	0.700	NTU
02	Compliance	E003	11/29/2023	Antimony, total	0.0013 U	mg/L
02	Compliance	E003	11/29/2023	Arsenic, total	0.00610 J	mg/L
02	Compliance	E003	11/29/2023	Barium, total	0.200	mg/L
02	Compliance	E003	11/29/2023	Beryllium, total	0.00053 U	mg/L
02	Compliance	E003	11/29/2023	Boron, total	0.310 J+	mg/L
02	Compliance	E003	11/29/2023	Cadmium, total	0.00017 U	mg/L
02	Compliance	E003	11/29/2023	Calcium, total	85.0	mg/L
02	Compliance	E003	11/29/2023	Chloride, total	54.0	mg/L

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845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
02	Compliance	E003	11/29/2023	Chromium, total	0.0011 U	mg/L
02	Compliance	E003	11/29/2023	Cobalt, total	0.0004 U	mg/L
02	Compliance	E003	11/29/2023	Dissolved Oxygen	0.690	mg/L
02	Compliance	E003	11/29/2023	Fluoride, total	0.590	mg/L
02	Compliance	E003	11/29/2023	Lead, total	0.0003 J	mg/L
02	Compliance	E003	11/29/2023	Lithium, total	0.0024 J	mg/L
02	Compliance	E003	11/29/2023	Mercury, total	0.000079 U	mg/L
02	Compliance	E003	11/29/2023	Molybdenum, total	0.0025 U	mg/L
02	Compliance	E003	11/29/2023	Oxidation Reduction Potential	-118	mV
02	Compliance	E003	11/29/2023	pH (field)	8.0	SU
02	Compliance	E003	11/29/2023	Radium 226 + Radium 228, total	0.673	pCi/L
02	Compliance	E003	11/29/2023	Selenium, total	0.003 UJ	mg/L
02	Compliance	E003	11/29/2023	Specific Conductance @ 25C (field)	941	micromhos/cm
02	Compliance	E003	11/29/2023	Sulfate, total	24.0	mg/L
02	Compliance	E003	11/29/2023	Temperature	12.6	degrees C
02	Compliance	E003	11/29/2023	Thallium, total	0.00057 U	mg/L
02	Compliance	E003	11/29/2023	Total Dissolved Solids	620	mg/L
02	Compliance	E003	11/29/2023	Turbidity, field	2.31	NTU
03R	Compliance	E003	11/29/2023	Antimony, total	0.0013 U	mg/L
03R	Compliance	E003	11/29/2023	Arsenic, total	0.0140	mg/L
03R	Compliance	E003	11/29/2023	Barium, total	0.320	mg/L
03R	Compliance	E003	11/29/2023	Beryllium, total	0.00053 U	mg/L
03R	Compliance	E003	11/29/2023	Boron, total	24.0	mg/L
03R	Compliance	E003	11/29/2023	Cadmium, total	0.00110	mg/L
03R	Compliance	E003	11/29/2023	Calcium, total	140	mg/L
03R	Compliance	E003	11/29/2023	Chloride, total	26.0	mg/L
03R	Compliance	E003	11/29/2023	Chromium, total	0.0035 J	mg/L
03R	Compliance	E003	11/29/2023	Cobalt, total	0.00210	mg/L
03R	Compliance	E003	11/29/2023	Dissolved Oxygen	0.390	mg/L
03R	Compliance	E003	11/29/2023	Fluoride, total	0.430	mg/L
03R	Compliance	E003	11/29/2023	Lead, total	0.00320	mg/L
03R	Compliance	E003	11/29/2023	Lithium, total	0.0049 J	mg/L
03R	Compliance	E003	11/29/2023	Mercury, total	0.000079 U	mg/L
03R	Compliance	E003	11/29/2023	Molybdenum, total	0.280	mg/L
03R	Compliance	E003	11/29/2023	Oxidation Reduction Potential	-130	mV
03R	Compliance	E003	11/29/2023	pH (field)	7.6	SU
03R	Compliance	E003	11/29/2023	Radium 226 + Radium 228, total	1.65	pCi/L
03R	Compliance	E003	11/29/2023	Selenium, total	0.003 UJ	mg/L
03R	Compliance	E003	11/29/2023	Specific Conductance @ 25C (field)	1,392	micromhos/cm
03R	Compliance	E003	11/29/2023	Sulfate, total	470	mg/L
03R	Compliance	E003	11/29/2023	Temperature	11.0	degrees C
03R	Compliance	E003	11/29/2023	Thallium, total	0.00057 U	mg/L
03R	Compliance	E003	11/29/2023	Total Dissolved Solids	1,200	mg/L
03R	Compliance	E003	11/29/2023	Turbidity, field	149	NTU
04	Compliance	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
04	Compliance	E003	11/28/2023	Arsenic, total	0.00820	mg/L

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NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
04	Compliance	E003	11/28/2023	Barium, total	0.210	mg/L
04	Compliance	E003	11/28/2023	Beryllium, total	0.00053 U	mg/L
04	Compliance	E003	11/28/2023	Boron, total	9.90	mg/L
04	Compliance	E003	11/28/2023	Cadmium, total	0.00017 U	mg/L
04	Compliance	E003	11/28/2023	Calcium, total	55.0	mg/L
04	Compliance	E003	11/28/2023	Chloride, total	9.20	mg/L
04	Compliance	E003	11/28/2023	Chromium, total	0.0011 U	mg/L
04	Compliance	E003	11/28/2023	Cobalt, total	0.00087 J	mg/L
04	Compliance	E003	11/28/2023	Dissolved Oxygen	0.610	mg/L
04	Compliance	E003	11/28/2023	Fluoride, total	0.320	mg/L
04	Compliance	E003	11/28/2023	Lead, total	0.00024 J	mg/L
04	Compliance	E003	11/28/2023	Lithium, total	0.0470	mg/L
04	Compliance	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
04	Compliance	E003	11/28/2023	Molybdenum, total	0.0400	mg/L
04	Compliance	E003	11/28/2023	Oxidation Reduction Potential	-189	mV
04	Compliance	E003	11/28/2023	pH (field)	7.8	SU
04	Compliance	E003	11/28/2023	Radium 226 + Radium 228, total	2.1	pCi/L
04	Compliance	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L
04	Compliance	E003	11/28/2023	Specific Conductance @ 25C (field)	466	micromhos/cm
04	Compliance	E003	11/28/2023	Sulfate, total	1.50	mg/L
04	Compliance	E003	11/28/2023	Temperature	12.4	degrees C
04	Compliance	E003	11/28/2023	Thallium, total	0.00057 U	mg/L
04	Compliance	E003	11/28/2023	Total Dissolved Solids	350 J+	mg/L
04	Compliance	E003	11/28/2023	Turbidity, field	7.78	NTU
05	Compliance	E003	11/27/2023	Antimony, total	0.0013 U	mg/L
05	Compliance	E003	11/27/2023	Arsenic, total	0.00051 J	mg/L
05	Compliance	E003	11/27/2023	Barium, total	0.0260	mg/L
05	Compliance	E003	11/27/2023	Beryllium, total	0.00053 U	mg/L
05	Compliance	E003	11/27/2023	Boron, total	22.0	mg/L
05	Compliance	E003	11/27/2023	Cadmium, total	0.00017 U	mg/L
05	Compliance	E003	11/27/2023	Calcium, total	99.0	mg/L
05	Compliance	E003	11/27/2023	Chloride, total	6.00	mg/L
05	Compliance	E003	11/27/2023	Chromium, total	0.0011 U	mg/L
05	Compliance	E003	11/27/2023	Cobalt, total	0.00110	mg/L
05	Compliance	E003	11/27/2023	Dissolved Oxygen	0.0500	mg/L
05	Compliance	E003	11/27/2023	Fluoride, total	0.610	mg/L
05	Compliance	E003	11/27/2023	Lead, total	0.00031 J	mg/L
05	Compliance	E003	11/27/2023	Lithium, total	0.0890	mg/L
05	Compliance	E003	11/27/2023	Mercury, total	0.000079 U	mg/L
05	Compliance	E003	11/27/2023	Molybdenum, total	0.0400	mg/L
05	Compliance	E003	11/27/2023	Oxidation Reduction Potential	73.8	mV
05	Compliance	E003	11/27/2023	pH (field)	7.4	SU
05	Compliance	E003	11/27/2023	Radium 226 + Radium 228, total	0.602	pCi/L
05	Compliance	E003	11/27/2023	Selenium, total	0.003 UJ	mg/L
05	Compliance	E003	11/27/2023	Specific Conductance @ 25C (field)	720	micromhos/cm
05	Compliance	E003	11/27/2023	Sulfate, total	24.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
05	Compliance	E003	11/27/2023	Temperature	12.8	degrees C
05	Compliance	E003	11/27/2023	Thallium, total	0.00057 U	mg/L
05	Compliance	E003	11/27/2023	Total Dissolved Solids	620	mg/L
05	Compliance	E003	11/27/2023	Turbidity, field	0.980	NTU
08R	Compliance	E003	11/29/2023	Antimony, total	0.0013 U	mg/L
08R	Compliance	E003	11/29/2023	Arsenic, total	0.0250	mg/L
08R	Compliance	E003	11/29/2023	Barium, total	0.0490	mg/L
08R	Compliance	E003	11/29/2023	Beryllium, total	0.00053 U	mg/L
08R	Compliance	E003	11/29/2023	Boron, total	37.0	mg/L
08R	Compliance	E003	11/29/2023	Cadmium, total	0.00017 U	mg/L
08R	Compliance	E003	11/29/2023	Calcium, total	280	mg/L
08R	Compliance	E003	11/29/2023	Chloride, total	7.20	mg/L
08R	Compliance	E003	11/29/2023	Chromium, total	0.0011 U	mg/L
08R	Compliance	E003	11/29/2023	Cobalt, total	0.00047 J	mg/L
08R	Compliance	E003	11/29/2023	Dissolved Oxygen	0.200	mg/L
08R	Compliance	E003	11/29/2023	Fluoride, total	0.056 U	mg/L
08R	Compliance	E003	11/29/2023	Lead, total	0.00019 U	mg/L
08R	Compliance	E003	11/29/2023	Lithium, total	0.410	mg/L
08R	Compliance	E003	11/29/2023	Mercury, total	0.000079 U	mg/L
08R	Compliance	E003	11/29/2023	Molybdenum, total	0.300	mg/L
08R	Compliance	E003	11/29/2023	Oxidation Reduction Potential	-138	mV
08R	Compliance	E003	11/29/2023	pH (field)	8.1	SU
08R	Compliance	E003	11/29/2023	Radium 226 + Radium 228, total	0.935	pCi/L
08R	Compliance	E003	11/29/2023	Selenium, total	0.003 UJ	mg/L
08R	Compliance	E003	11/29/2023	Specific Conductance @ 25C (field)	1,519	micromhos/cm
08R	Compliance	E003	11/29/2023	Sulfate, total	830	mg/L
08R	Compliance	E003	11/29/2023	Temperature	11.4	degrees C
08R	Compliance	E003	11/29/2023	Thallium, total	0.00057 U	mg/L
08R	Compliance	E003	11/29/2023	Total Dissolved Solids	1,500	mg/L
08R	Compliance	E003	11/29/2023	Turbidity, field	1.18	NTU
17	Compliance	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
17	Compliance	E003	11/28/2023	Arsenic, total	0.00640	mg/L
17	Compliance	E003	11/28/2023	Barium, total	0.0270	mg/L
17	Compliance	E003	11/28/2023	Beryllium, total	0.00094 J	mg/L
17	Compliance	E003	11/28/2023	Boron, total	6.50	mg/L
17	Compliance	E003	11/28/2023	Cadmium, total	0.00024 J	mg/L
17	Compliance	E003	11/28/2023	Calcium, total	290	mg/L
17	Compliance	E003	11/28/2023	Chloride, total	25.0	mg/L
17	Compliance	E003	11/28/2023	Chromium, total	0.0011 U	mg/L
17	Compliance	E003	11/28/2023	Cobalt, total	0.00280	mg/L
17	Compliance	E003	11/28/2023	Dissolved Oxygen	0.610	mg/L
17	Compliance	E003	11/28/2023	Fluoride, total	0.340	mg/L
17	Compliance	E003	11/28/2023	Lead, total	0.00110	mg/L
17	Compliance	E003	11/28/2023	Lithium, total	0.0290	mg/L
17	Compliance	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
17	Compliance	E003	11/28/2023	Molybdenum, total	0.00540	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
17	Compliance	E003	11/28/2023	Oxidation Reduction Potential	4.00	mV
17	Compliance	E003	11/28/2023	pH (field)	7.0	SU
17	Compliance	E003	11/28/2023	Radium 226 + Radium 228, total	0.981	pCi/L
17	Compliance	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L
17	Compliance	E003	11/28/2023	Specific Conductance @ 25C (field)	41.8	micromhos/cm
17	Compliance	E003	11/28/2023	Sulfate, total	1,000	mg/L
17	Compliance	E003	11/28/2023	Temperature	11	degrees C
17	Compliance	E003	11/28/2023	Thallium, total	0.00086 J	mg/L
17	Compliance	E003	11/28/2023	Total Dissolved Solids	2,100	mg/L
17	Compliance	E003	11/28/2023	Turbidity, field	2,112	NTU
20	Compliance	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
20	Compliance	E003	11/28/2023	Arsenic, total	0.00340	mg/L
20	Compliance	E003	11/28/2023	Barium, total	0.0220	mg/L
20	Compliance	E003	11/28/2023	Beryllium, total	0.00053 U	mg/L
20	Compliance	E003	11/28/2023	Boron, total	1.50	mg/L
20	Compliance	E003	11/28/2023	Cadmium, total	0.00017 U	mg/L
20	Compliance	E003	11/28/2023	Calcium, total	95.0	mg/L
20	Compliance	E003	11/28/2023	Chloride, total	4.50	mg/L
20	Compliance	E003	11/28/2023	Chromium, total	0.0011 U	mg/L
20	Compliance	E003	11/28/2023	Cobalt, total	0.00130	mg/L
20	Compliance	E003	11/28/2023	Dissolved Oxygen	0.280	mg/L
20	Compliance	E003	11/28/2023	Fluoride, total	0.078 J	mg/L
20	Compliance	E003	11/28/2023	Lead, total	0.00021 J	mg/L
20	Compliance	E003	11/28/2023	Lithium, total	0.0240	mg/L
20	Compliance	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
20	Compliance	E003	11/28/2023	Molybdenum, total	0.0025 U	mg/L
20	Compliance	E003	11/28/2023	Oxidation Reduction Potential	-74.7	mV
20	Compliance	E003	11/28/2023	pH (field)	7.2	SU
20	Compliance	E003	11/28/2023	Radium 226 + Radium 228, total	1.05	pCi/L
20	Compliance	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L
20	Compliance	E003	11/28/2023	Specific Conductance @ 25C (field)	629	micromhos/cm
20	Compliance	E003	11/28/2023	Sulfate, total	85.0	mg/L
20	Compliance	E003	11/28/2023	Temperature	11.9	degrees C
20	Compliance	E003	11/28/2023	Thallium, total	0.00057 U	mg/L
20	Compliance	E003	11/28/2023	Total Dissolved Solids	480	mg/L
20	Compliance	E003	11/28/2023	Turbidity, field	12.1	NTU
34	Compliance	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
34	Compliance	E003	11/28/2023	Arsenic, total	0.0340	mg/L
34	Compliance	E003	11/28/2023	Barium, total	0.190	mg/L
34	Compliance	E003	11/28/2023	Beryllium, total	0.00053 U	mg/L
34	Compliance	E003	11/28/2023	Boron, total	0.470 J+	mg/L
34	Compliance	E003	11/28/2023	Cadmium, total	0.00017 U	mg/L
34	Compliance	E003	11/28/2023	Calcium, total	66.0	mg/L
34	Compliance	E003	11/28/2023	Chloride, total	34.0	mg/L
34	Compliance	E003	11/28/2023	Chromium, total	0.0035 J	mg/L
34	Compliance	E003	11/28/2023	Cobalt, total	0.00170	mg/L

TABLE 1.
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OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
34	Compliance	E003	11/28/2023	Dissolved Oxygen	0.240	mg/L
34	Compliance	E003	11/28/2023	Fluoride, total	0.620	mg/L
34	Compliance	E003	11/28/2023	Lead, total	0.00290	mg/L
34	Compliance	E003	11/28/2023	Lithium, total	0.00620 J+	mg/L
34	Compliance	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
34	Compliance	E003	11/28/2023	Molybdenum, total	0.0025 U	mg/L
34	Compliance	E003	11/28/2023	Oxidation Reduction Potential	-166	mV
34	Compliance	E003	11/28/2023	pH (field)	7.3	SU
34	Compliance	E003	11/28/2023	Radium 226 + Radium 228, total	3.07	pCi/L
34	Compliance	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L
34	Compliance	E003	11/28/2023	Specific Conductance @ 25C (field)	837	micromhos/cm
34	Compliance	E003	11/28/2023	Sulfate, total	0.21 U	mg/L
34	Compliance	E003	11/28/2023	Temperature	9.99	degrees C
34	Compliance	E003	11/28/2023	Thallium, total	0.00057 U	mg/L
34	Compliance	E003	11/28/2023	Total Dissolved Solids	540	mg/L
34	Compliance	E003	11/28/2023	Turbidity, field	64.2	NTU
36	Compliance	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
36	Compliance	E003	11/28/2023	Arsenic, total	0.00830	mg/L
36	Compliance	E003	11/28/2023	Barium, total	0.140	mg/L
36	Compliance	E003	11/28/2023	Beryllium, total	0.00053 U	mg/L
36	Compliance	E003	11/28/2023	Boron, total	11.0	mg/L
36	Compliance	E003	11/28/2023	Cadmium, total	0.00017 U	mg/L
36	Compliance	E003	11/28/2023	Calcium, total	290	mg/L
36	Compliance	E003	11/28/2023	Chloride, total	21.0	mg/L
36	Compliance	E003	11/28/2023	Chromium, total	0.0032 J	mg/L
36	Compliance	E003	11/28/2023	Cobalt, total	0.00300	mg/L
36	Compliance	E003	11/28/2023	Dissolved Oxygen	0.730	mg/L
36	Compliance	E003	11/28/2023	Fluoride, total	0.250	mg/L
36	Compliance	E003	11/28/2023	Lead, total	0.00490	mg/L
36	Compliance	E003	11/28/2023	Lithium, total	0.130	mg/L
36	Compliance	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
36	Compliance	E003	11/28/2023	Molybdenum, total	0.120	mg/L
36	Compliance	E003	11/28/2023	Oxidation Reduction Potential	-133	mV
36	Compliance	E003	11/28/2023	pH (field)	7.3	SU
36	Compliance	E003	11/28/2023	Radium 226 + Radium 228, total	3.21	pCi/L
36	Compliance	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L
36	Compliance	E003	11/28/2023	Specific Conductance @ 25C (field)	1,706	micromhos/cm
36	Compliance	E003	11/28/2023	Sulfate, total	940	mg/L
36	Compliance	E003	11/28/2023	Temperature	11.8	degrees C
36	Compliance	E003	11/28/2023	Thallium, total	0.00057 U	mg/L
36	Compliance	E003	11/28/2023	Total Dissolved Solids	1,800	mg/L
36	Compliance	E003	11/28/2023	Turbidity, field	80.4	NTU
37	Compliance	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
37	Compliance	E003	11/28/2023	Arsenic, total	0.0370	mg/L
37	Compliance	E003	11/28/2023	Barium, total	0.360	mg/L
37	Compliance	E003	11/28/2023	Beryllium, total	0.00053 U	mg/L

TABLE 1.
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VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
37	Compliance	E003	11/28/2023	Boron, total	1.80	mg/L
37	Compliance	E003	11/28/2023	Cadmium, total	0.00017 U	mg/L
37	Compliance	E003	11/28/2023	Calcium, total	120	mg/L
37	Compliance	E003	11/28/2023	Chloride, total	37.0	mg/L
37	Compliance	E003	11/28/2023	Chromium, total	0.0011 U	mg/L
37	Compliance	E003	11/28/2023	Cobalt, total	0.0004 J	mg/L
37	Compliance	E003	11/28/2023	Dissolved Oxygen	0.490	mg/L
37	Compliance	E003	11/28/2023	Fluoride, total	0.550	mg/L
37	Compliance	E003	11/28/2023	Lead, total	0.00033 J	mg/L
37	Compliance	E003	11/28/2023	Lithium, total	0.002 U	mg/L
37	Compliance	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
37	Compliance	E003	11/28/2023	Molybdenum, total	0.0025 U	mg/L
37	Compliance	E003	11/28/2023	Oxidation Reduction Potential	-161	mV
37	Compliance	E003	11/28/2023	pH (field)	7.1	SU
37	Compliance	E003	11/28/2023	Radium 226 + Radium 228, total	1.81	pCi/L
37	Compliance	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L
37	Compliance	E003	11/28/2023	Specific Conductance @ 25C (field)	1,276	micromhos/cm
37	Compliance	E003	11/28/2023	Sulfate, total	32.0	mg/L
37	Compliance	E003	11/28/2023	Temperature	9.15	degrees C
37	Compliance	E003	11/28/2023	Thallium, total	0.00057 U	mg/L
37	Compliance	E003	11/28/2023	Total Dissolved Solids	950	mg/L
37	Compliance	E003	11/28/2023	Turbidity, field	16.9	NTU
38	Compliance	E003	11/28/2023	Antimony, total	0.0013 U	mg/L
38	Compliance	E003	11/28/2023	Arsenic, total	0.0300	mg/L
38	Compliance	E003	11/28/2023	Barium, total	0.210	mg/L
38	Compliance	E003	11/28/2023	Beryllium, total	0.00053 U	mg/L
38	Compliance	E003	11/28/2023	Boron, total	0.430 J+	mg/L
38	Compliance	E003	11/28/2023	Cadmium, total	0.00017 U	mg/L
38	Compliance	E003	11/28/2023	Calcium, total	71.0	mg/L
38	Compliance	E003	11/28/2023	Chloride, total	17.0	mg/L
38	Compliance	E003	11/28/2023	Chromium, total	0.0011 U	mg/L
38	Compliance	E003	11/28/2023	Cobalt, total	0.00046 J	mg/L
38	Compliance	E003	11/28/2023	Dissolved Oxygen	0.720	mg/L
38	Compliance	E003	11/28/2023	Fluoride, total	0.360	mg/L
38	Compliance	E003	11/28/2023	Lead, total	0.00038 J	mg/L
38	Compliance	E003	11/28/2023	Lithium, total	0.005 UJ	mg/L
38	Compliance	E003	11/28/2023	Mercury, total	0.000079 U	mg/L
38	Compliance	E003	11/28/2023	Molybdenum, total	0.0025 U	mg/L
38	Compliance	E003	11/28/2023	Oxidation Reduction Potential	-153	mV
38	Compliance	E003	11/28/2023	pH (field)	7.2	SU
38	Compliance	E003	11/28/2023	Radium 226 + Radium 228, total	1.91 J	pCi/L
38	Compliance	E003	11/28/2023	Selenium, total	0.003 UJ	mg/L
38	Compliance	E003	11/28/2023	Specific Conductance @ 25C (field)	768	micromhos/cm
38	Compliance	E003	11/28/2023	Sulfate, total	0.7 J	mg/L
38	Compliance	E003	11/28/2023	Temperature	11.6	degrees C
38	Compliance	E003	11/28/2023	Thallium, total	0.00057 U	mg/L

TABLE 1.
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VERMILION POWER PLANT
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OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
38	Compliance	E003	11/28/2023	Total Dissolved Solids	540	mg/L
38	Compliance	E003	11/28/2023	Turbidity, field	10.0	NTU
40	Compliance	E003	11/29/2023	Antimony, total	0.0013 U	mg/L
40	Compliance	E003	11/29/2023	Arsenic, total	0.0230	mg/L
40	Compliance	E003	11/29/2023	Barium, total	0.0330	mg/L
40	Compliance	E003	11/29/2023	Beryllium, total	0.00053 U	mg/L
40	Compliance	E003	11/29/2023	Boron, total	25.0	mg/L
40	Compliance	E003	11/29/2023	Cadmium, total	0.00017 U	mg/L
40	Compliance	E003	11/29/2023	Calcium, total	580	mg/L
40	Compliance	E003	11/29/2023	Chloride, total	8.40	mg/L
40	Compliance	E003	11/29/2023	Chromium, total	0.0011 U	mg/L
40	Compliance	E003	11/29/2023	Cobalt, total	0.00850	mg/L
40	Compliance	E003	11/29/2023	Dissolved Oxygen	0.180	mg/L
40	Compliance	E003	11/29/2023	Fluoride, total	0.056 U	mg/L
40	Compliance	E003	11/29/2023	Lead, total	0.00019 U	mg/L
40	Compliance	E003	11/29/2023	Lithium, total	0.820	mg/L
40	Compliance	E003	11/29/2023	Mercury, total	0.000079 U	mg/L
40	Compliance	E003	11/29/2023	Molybdenum, total	0.0480	mg/L
40	Compliance	E003	11/29/2023	Oxidation Reduction Potential	-91.7	mV
40	Compliance	E003	11/29/2023	pH (field)	6.6	SU
40	Compliance	E003	11/29/2023	Radium 226 + Radium 228, total	0.943	pCi/L
40	Compliance	E003	11/29/2023	Selenium, total	0.003 UJ	mg/L
40	Compliance	E003	11/29/2023	Specific Conductance @ 25C (field)	4,328	micromhos/cm
40	Compliance	E003	11/29/2023	Sulfate, total	3,200	mg/L
40	Compliance	E003	11/29/2023	Temperature	11.9	degrees C
40	Compliance	E003	11/29/2023	Thallium, total	0.00057 U	mg/L
40	Compliance	E003	11/29/2023	Total Dissolved Solids	5,300 J	mg/L
40	Compliance	E003	11/29/2023	Turbidity, field	6.20	NTU
41	Compliance	E003	11/27/2023	Antimony, total	0.0013 U	mg/L
41	Compliance	E003	11/27/2023	Arsenic, total	0.0130	mg/L
41	Compliance	E003	11/27/2023	Barium, total	0.250	mg/L
41	Compliance	E003	11/27/2023	Beryllium, total	0.00053 U	mg/L
41	Compliance	E003	11/27/2023	Boron, total	3.40	mg/L
41	Compliance	E003	11/27/2023	Cadmium, total	0.00017 U	mg/L
41	Compliance	E003	11/27/2023	Calcium, total	84.0	mg/L
41	Compliance	E003	11/27/2023	Chloride, total	49.0	mg/L
41	Compliance	E003	11/27/2023	Chromium, total	0.0012 J	mg/L
41	Compliance	E003	11/27/2023	Cobalt, total	0.00055 J	mg/L
41	Compliance	E003	11/27/2023	Dissolved Oxygen	0.140	mg/L
41	Compliance	E003	11/27/2023	Fluoride, total	0.400	mg/L
41	Compliance	E003	11/27/2023	Lead, total	0.00045 J	mg/L
41	Compliance	E003	11/27/2023	Lithium, total	0.005 UJ	mg/L
41	Compliance	E003	11/27/2023	Mercury, total	0.000079 U	mg/L
41	Compliance	E003	11/27/2023	Molybdenum, total	0.0025 U	mg/L
41	Compliance	E003	11/27/2023	Oxidation Reduction Potential	-208	mV
41	Compliance	E003	11/27/2023	pH (field)	7.2	SU

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
41	Compliance	E003	11/27/2023	Radium 226 + Radium 228, total	0.914	pCi/L
41	Compliance	E003	11/27/2023	Selenium, total	0.003 UJ	mg/L
41	Compliance	E003	11/27/2023	Specific Conductance @ 25C (field)	1,113	micromhos/cm
41	Compliance	E003	11/27/2023	Sulfate, total	0.21 U	mg/L
41	Compliance	E003	11/27/2023	Temperature	11.6	degrees C
41	Compliance	E003	11/27/2023	Thallium, total	0.00057 U	mg/L
41	Compliance	E003	11/27/2023	Total Dissolved Solids	670	mg/L
41	Compliance	E003	11/27/2023	Turbidity, field	75.8	NTU

Notes:
C = Celsius
cm = centimeter
mg/L = milligrams per liter
mV = millivolts
NTU = Nephelometric Turbidity Units
pCi/L = picocuries per liter
SU = Standard Units
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, but the result may be biased high.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
02	LGU	E003	Antimony, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
02	LGU	E003	Arsenic, total	mg/L	03/31/21 - 11/29/23	11	9	CI around mean	0.00531	0.0600	Background	No Exceedance
02	LGU	E003	Barium, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.193	2.0	Standard	No Exceedance
02	LGU	E003	Beryllium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
02	LGU	E003	Boron, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.305	2.45	Background	No Exceedance
02	LGU	E003	Cadmium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
02	LGU	E003	Chloride, total	mg/L	03/31/21 - 11/29/23	11	0	CB around linear reg	37	200	Standard	No Exceedance
02	LGU	E003	Chromium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
02	LGU	E003	Cobalt, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
02	LGU	E003	Fluoride, total	mg/L	03/31/21 - 11/29/23	11	9	CB around linear reg	0.474	4.0	Standard	No Exceedance
02	LGU	E003	Lead, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
02	LGU	E003	Lithium, total	mg/L	03/31/21 - 11/29/23	11	46	CI around mean	0.00285	0.04	Standard	No Exceedance
02	LGU	E003	Mercury, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
02	LGU	E003	Molybdenum, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
02	LGU	E003	pH (field)	SU	03/31/21 - 11/29/23	11	0	CI around mean	7.4/7.8	6.5/9.0	Standard/Standard	No Exceedance
02	LGU	E003	Radium 226 + Radium 228, total	pCi/L	03/31/21 - 11/29/23	10	0	CI around mean	0.424	5	Standard	No Exceedance
02	LGU	E003	Selenium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
02	LGU	E003	Sulfate, total	mg/L	03/31/21 - 11/29/23	11	0	CB around linear reg	-12.5	400	Standard	No Exceedance
02	LGU	E003	Thallium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
02	LGU	E003	Total Dissolved Solids	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	553	1,200	Standard	No Exceedance
03R	LGU	E003	Antimony, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
03R	LGU	E003	Arsenic, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	0.00459	0.0600	Background	No Exceedance
03R	LGU	E003	Barium, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	0.285	2.0	Standard	No Exceedance
03R	LGU	E003	Beryllium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
03R	LGU	E003	Boron, total	mg/L	03/30/21 - 11/29/23	11	0	CI around median	19.1	2.45	Background	Exceedance
03R	LGU	E003	Cadmium, total	mg/L	03/30/21 - 11/29/23	11	82	CI around median	0.001	0.005	Standard	No Exceedance
03R	LGU	E003	Chloride, total	mg/L	03/30/21 - 11/29/23	11	2	CI around mean	26.2	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
03R	LGU	E003	Chromium, total	mg/L	03/30/21 - 11/29/23	11	82	CI around median	0.0015	0.1	Standard	No Exceedance
03R	LGU	E003	Cobalt, total	mg/L	03/30/21 - 11/29/23	11	82	CI around median	0.001	0.006	Standard	No Exceedance
03R	LGU	E003	Fluoride, total	mg/L	03/30/21 - 11/29/23	11	9	CI around mean	0.446	4.0	Standard	No Exceedance
03R	LGU	E003	Lead, total	mg/L	03/30/21 - 11/29/23	11	64	CI around median	0.001	0.0075	Standard	No Exceedance
03R	LGU	E003	Lithium, total	mg/L	03/30/21 - 11/29/23	11	91	CI around median	0.003	0.04	Standard	No Exceedance
03R	LGU	E003	Mercury, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
03R	LGU	E003	Molybdenum, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	0.178	0.1	Standard	Exceedance
03R	LGU	E003	pH (field)	SU	03/30/21 - 11/29/23	11	0	CI around mean	7.2/7.4	6.5/9.0	Standard/Standard	No Exceedance
03R	LGU	E003	Radium 226 + Radium 228, total	pCi/L	04/21/21 - 11/29/23	9	0	CI around mean	0.871	5	Standard	No Exceedance
03R	LGU	E003	Selenium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
03R	LGU	E003	Sulfate, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	484	400	Standard	Exceedance
03R	LGU	E003	Thallium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
03R	LGU	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	1,080	1,200	Standard	No Exceedance
04	UA	E003	Antimony, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
04	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/28/23	11	0	CI around geomean	0.0055	0.0600	Background	No Exceedance
04	UA	E003	Barium, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.226	2.0	Standard	No Exceedance
04	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
04	UA	E003	Boron, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	8.61	2.45	Background	Exceedance
04	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
04	UA	E003	Chloride, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	10.7	200	Standard	No Exceedance
04	UA	E003	Chromium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
04	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/28/23	11	91	Most recent sample	0.001	0.006	Standard	No Exceedance
04	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/28/23	11	9	CB around linear reg	0.292	4.0	Standard	No Exceedance
04	UA	E003	Lead, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
04	UA	E003	Lithium, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.0476	0.04	Standard	Exceedance
04	UA	E003	Mercury, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
04	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/28/23	11	0	CB around linear reg	0.0323	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
04	UA	E003	pH (field)	SU	03/30/21 - 11/28/23	11	0	CI around mean	7.3/7.6	6.5/9.0	Standard/Standard	No Exceedance
04	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/19/21 - 11/28/23	9	0	CI around mean	0.609	5	Standard	No Exceedance
04	UA	E003	Selenium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
04	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	37.8	400	Standard	No Exceedance
04	UA	E003	Thallium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
04	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	369	1,200	Standard	No Exceedance
05	UA	E003	Antimony, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
05	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.001	0.0600	Background	No Exceedance
05	UA	E003	Barium, total	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	0.0219	2.0	Standard	No Exceedance
05	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
05	UA	E003	Boron, total	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	18.5	2.45	Background	Exceedance
05	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
05	UA	E003	Chloride, total	mg/L	03/30/21 - 11/27/23	11	2	CI around median	7	200	Standard	No Exceedance
05	UA	E003	Chromium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
05	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/27/23	11	82	CI around median	0.001	0.006	Standard	No Exceedance
05	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/27/23	11	9	CI around mean	0.517	4.0	Standard	No Exceedance
05	UA	E003	Lead, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
05	UA	E003	Lithium, total	mg/L	03/30/21 - 11/27/23	11	0	CI around median	0.0886	0.04	Standard	Exceedance
05	UA	E003	Mercury, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
05	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/27/23	11	0	CB around linear reg	0.039	0.1	Standard	No Exceedance
05	UA	E003	pH (field)	SU	03/30/21 - 11/27/23	11	0	CI around mean	7.2/7.4	6.5/9.0	Standard/Standard	No Exceedance
05	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/21/21 - 11/27/23	9	0	CI around mean	-0.0377	5	Standard	No Exceedance
05	UA	E003	Selenium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
05	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/27/23	11	0	CB around linear reg	32.7	400	Standard	No Exceedance
05	UA	E003	Thallium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
05	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	526	1,200	Standard	No Exceedance
08R	UA	E003	Antimony, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
08R	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/29/23	11	0	CB around linear reg	0.0233	0.0600	Background	No Exceedance
08R	UA	E003	Barium, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	0.0512	2.0	Standard	No Exceedance
08R	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
08R	UA	E003	Boron, total	mg/L	03/30/21 - 11/29/23	11	0	CI around median	14.4	2.45	Background	Exceedance
08R	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
08R	UA	E003	Chloride, total	mg/L	03/30/21 - 11/29/23	11	0	CI around median	4	200	Standard	No Exceedance
08R	UA	E003	Chromium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
08R	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
08R	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/29/23	11	73	CI around median	0.1	4.0	Standard	No Exceedance
08R	UA	E003	Lead, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
08R	UA	E003	Lithium, total	mg/L	03/30/21 - 11/29/23	11	0	CI around median	0.13	0.04	Standard	Exceedance
08R	UA	E003	Mercury, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
08R	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	0.176	0.1	Standard	Exceedance
08R	UA	E003	pH (field)	SU	03/30/21 - 11/29/23	11	0	CB around linear reg	7.0/9.2	6.5/9.0	Standard/Standard	No Exceedance
08R	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/21/21 - 11/29/23	9	0	CI around mean	0.325	5	Standard	No Exceedance
08R	UA	E003	Selenium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
08R	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/29/23	11	0	CB around linear reg	457	400	Standard	Exceedance
08R	UA	E003	Thallium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
08R	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/29/23	11	0	CB around linear reg	1,090	1,200	Standard	No Exceedance
17	UA	E003	Antimony, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.003	0.006	Standard	No Exceedance
17	UA	E003	Arsenic, total	mg/L	03/31/21 - 11/28/23	8	12	CI around mean	0.00382	0.0600	Background	No Exceedance
17	UA	E003	Barium, total	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	0.0253	2.0	Standard	No Exceedance
17	UA	E003	Beryllium, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.001	0.004	Standard	No Exceedance
17	UA	E003	Boron, total	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	3.07	2.45	Background	Exceedance
17	UA	E003	Cadmium, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
17	UA	E003	Chloride, total	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	14	200	Standard	No Exceedance
17	UA	E003	Chromium, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.005	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
17	UA	E003	Cobalt, total	mg/L	03/31/21 - 11/28/23	8	12	CI around mean	0.0012	0.006	Standard	No Exceedance
17	UA	E003	Fluoride, total	mg/L	03/31/21 - 11/28/23	8	12	CB around linear reg	0.175	4.0	Standard	No Exceedance
17	UA	E003	Lead, total	mg/L	03/31/21 - 11/28/23	8	62	CI around median	0.0005	0.0075	Standard	No Exceedance
17	UA	E003	Lithium, total	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	0.0189	0.04	Standard	No Exceedance
17	UA	E003	Mercury, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
17	UA	E003	Molybdenum, total	mg/L	03/31/21 - 11/28/23	8	38	CI around mean	0.00177	0.1	Standard	No Exceedance
17	UA	E003	pH (field)	SU	03/31/21 - 11/28/23	8	0	CI around mean	6.7/7.0	6.5/9.0	Standard/Standard	No Exceedance
17	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/31/21 - 11/28/23	7	0	CI around mean	0.148	5	Standard	No Exceedance
17	UA	E003	Selenium, total	mg/L	03/31/21 - 11/28/23	8	88	CI around median	0.001	0.05	Standard	No Exceedance
17	UA	E003	Sulfate, total	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	890	400	Standard	Exceedance
17	UA	E003	Thallium, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.002	0.002	Standard	No Exceedance
17	UA	E003	Total Dissolved Solids	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	1,560	1,200	Standard	Exceedance
20	UA	E003	Antimony, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
20	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/28/23	11	64	CI around median	0.001	0.0600	Background	No Exceedance
20	UA	E003	Barium, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.017	2.0	Standard	No Exceedance
20	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
20	UA	E003	Boron, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.588	2.45	Background	No Exceedance
20	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
20	UA	E003	Chloride, total	mg/L	03/30/21 - 11/28/23	11	14	CI around median	4	200	Standard	No Exceedance
20	UA	E003	Chromium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
20	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/28/23	11	82	CI around median	0.001	0.006	Standard	No Exceedance
20	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.1	4.0	Standard	No Exceedance
20	UA	E003	Lead, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
20	UA	E003	Lithium, total	mg/L	03/30/21 - 11/28/23	11	0	CI around geomean	0.0197	0.04	Standard	No Exceedance
20	UA	E003	Mercury, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
20	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/28/23	11	91	CI around median	0.0015	0.1	Standard	No Exceedance
20	UA	E003	pH (field)	SU	03/30/21 - 11/28/23	11	0	CI around mean	6.9/7.1	6.5/9.0	Standard/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
20	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/19/21 - 11/28/23	9	0	CI around mean	0.388	5	Standard	No Exceedance
20	UA	E003	Selenium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
20	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	71.5	400	Standard	No Exceedance
20	UA	E003	Thallium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
20	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	395	1,200	Standard	No Exceedance
34	LGU	E003	Antimony, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
34	LGU	E003	Arsenic, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.0241	0.0600	Background	No Exceedance
34	LGU	E003	Barium, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.154	2.0	Standard	No Exceedance
34	LGU	E003	Beryllium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
34	LGU	E003	Boron, total	mg/L	03/30/21 - 11/28/23	11	0	CB around linear reg	0.364	2.45	Background	No Exceedance
34	LGU	E003	Cadmium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
34	LGU	E003	Chloride, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	33	200	Standard	No Exceedance
34	LGU	E003	Chromium, total	mg/L	03/30/21 - 11/28/23	11	36	CI around mean	0.00183	0.1	Standard	No Exceedance
34	LGU	E003	Cobalt, total	mg/L	03/30/21 - 11/28/23	11	46	CI around median	0.001	0.006	Standard	No Exceedance
34	LGU	E003	Fluoride, total	mg/L	03/30/21 - 11/28/23	11	9	CI around median	0.62	4.0	Standard	No Exceedance
34	LGU	E003	Lead, total	mg/L	03/30/21 - 11/28/23	11	9	CI around mean	0.00141	0.0075	Standard	No Exceedance
34	LGU	E003	Lithium, total	mg/L	03/30/21 - 11/28/23	11	36	CI around mean	0.0032	0.04	Standard	No Exceedance
34	LGU	E003	Mercury, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
34	LGU	E003	Molybdenum, total	mg/L	03/30/21 - 11/28/23	11	91	CI around median	0.0015	0.1	Standard	No Exceedance
34	LGU	E003	pH (field)	SU	03/30/21 - 11/28/23	11	0	CI around mean	6.9/7.2	6.5/9.0	Standard/Standard	No Exceedance
34	LGU	E003	Radium 226 + Radium 228, total	pCi/L	04/19/21 - 11/28/23	9	0	CI around mean	0.245	5	Standard	No Exceedance
34	LGU	E003	Selenium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
34	LGU	E003	Sulfate, total	mg/L	03/30/21 - 11/28/23	11	88	CI around median	1	400	Standard	No Exceedance
34	LGU	E003	Thallium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
34	LGU	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/28/23	11	0	CI around median	475	1,200	Standard	No Exceedance
36	UA	E003	Antimony, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
36	UA	E003	Arsenic, total	mg/L	03/31/21 - 11/28/23	11	9	CB around linear reg	0.00396	0.0600	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
36	UA	E003	Barium, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	0.106	2.0	Standard	No Exceedance
36	UA	E003	Beryllium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
36	UA	E003	Boron, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	11.4	2.45	Background	Exceedance
36	UA	E003	Cadmium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
36	UA	E003	Chloride, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	19.3	200	Standard	No Exceedance
36	UA	E003	Chromium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
36	UA	E003	Cobalt, total	mg/L	03/31/21 - 11/28/23	11	91	CI around median	0.001	0.006	Standard	No Exceedance
36	UA	E003	Fluoride, total	mg/L	03/31/21 - 11/28/23	11	9	CI around median	0.25	4.0	Standard	No Exceedance
36	UA	E003	Lead, total	mg/L	03/31/21 - 11/28/23	11	91	CI around median	0.001	0.0075	Standard	No Exceedance
36	UA	E003	Lithium, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	0.125	0.04	Standard	Exceedance
36	UA	E003	Mercury, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
36	UA	E003	Molybdenum, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	0.106	0.1	Standard	Exceedance
36	UA	E003	pH (field)	SU	03/31/21 - 11/28/23	11	0	CI around mean	7.0/7.2	6.5/9.0	Standard/Standard	No Exceedance
36	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/31/21 - 11/28/23	10	0	CB around linear reg	1.66	5	Standard	No Exceedance
36	UA	E003	Selenium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
36	UA	E003	Sulfate, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	943	400	Standard	Exceedance
36	UA	E003	Thallium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
36	UA	E003	Total Dissolved Solids	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	1,640	1,200	Standard	Exceedance
37	LGU	E003	Antimony, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
37	LGU	E003	Arsenic, total	mg/L	03/31/21 - 11/28/23	11	0	CI around median	0.0257	0.0600	Background	No Exceedance
37	LGU	E003	Barium, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	0.278	2.0	Standard	No Exceedance
37	LGU	E003	Beryllium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
37	LGU	E003	Boron, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	1.23	2.45	Background	No Exceedance
37	LGU	E003	Cadmium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
37	LGU	E003	Chloride, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	41	200	Standard	No Exceedance
37	LGU	E003	Chromium, total	mg/L	03/31/21 - 11/28/23	11	91	CI around median	0.0015	0.1	Standard	No Exceedance
37	LGU	E003	Cobalt, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance

TABLE 2.
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NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
37	LGU	E003	Fluoride, total	mg/L	03/31/21 - 11/28/23	11	9	CI around mean	0.565	4.0	Standard	No Exceedance
37	LGU	E003	Lead, total	mg/L	03/31/21 - 11/28/23	11	82	CI around median	0.0005	0.0075	Standard	No Exceedance
37	LGU	E003	Lithium, total	mg/L	03/31/21 - 11/28/23	11	91	CI around median	0.003	0.04	Standard	No Exceedance
37	LGU	E003	Mercury, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
37	LGU	E003	Molybdenum, total	mg/L	03/31/21 - 11/28/23	11	91	CI around median	0.0015	0.1	Standard	No Exceedance
37	LGU	E003	pH (field)	SU	03/31/21 - 11/28/23	11	0	CI around mean	6.8/7.1	6.5/9.0	Standard/Standard	No Exceedance
37	LGU	E003	Radium 226 + Radium 228, total	pCi/L	03/31/21 - 11/28/23	10	0	CI around mean	0.791	5	Standard	No Exceedance
37	LGU	E003	Selenium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
37	LGU	E003	Sulfate, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	146	400	Standard	No Exceedance
37	LGU	E003	Thallium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
37	LGU	E003	Total Dissolved Solids	mg/L	03/31/21 - 11/28/23	11	0	CB around linear reg	761	1,200	Standard	No Exceedance
38	UA	E003	Antimony, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
38	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/28/23	11	0	CB around linear reg	0.0256	0.0600	Background	No Exceedance
38	UA	E003	Barium, total	mg/L	03/30/21 - 11/28/23	11	0	CB around T-S line	-0.26	2.0	Standard	No Exceedance
38	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
38	UA	E003	Boron, total	mg/L	03/30/21 - 11/28/23	11	0	CI around geomean	0.41	2.45	Background	No Exceedance
38	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
38	UA	E003	Chloride, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	17.6	200	Standard	No Exceedance
38	UA	E003	Chromium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
38	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
38	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/28/23	11	9	CI around mean	0.343	4.0	Standard	No Exceedance
38	UA	E003	Lead, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
38	UA	E003	Lithium, total	mg/L	03/30/21 - 11/28/23	11	46	CI around geomean	0.00289	0.04	Standard	No Exceedance
38	UA	E003	Mercury, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
38	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/28/23	11	27	CI around mean	0.00232	0.1	Standard	No Exceedance
38	UA	E003	pH (field)	SU	03/30/21 - 11/28/23	11	0	CI around mean	6.9/7.1	6.5/9.0	Standard/Standard	No Exceedance
38	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/19/21 - 11/28/23	9	0	CI around mean	0.856	5	Standard	No Exceedance

TABLE 2.
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VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
38	UA	E003	Selenium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
38	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/28/23	11	91	CI around median	1.2	400	Standard	No Exceedance
38	UA	E003	Thallium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
38	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	495	1,200	Standard	No Exceedance
40	UA	E003	Antimony, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
40	UA	E003	Arsenic, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.017	0.0600	Background	No Exceedance
40	UA	E003	Barium, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.03	2.0	Standard	No Exceedance
40	UA	E003	Beryllium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
40	UA	E003	Boron, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	19.4	2.45	Background	Exceedance
40	UA	E003	Cadmium, total	mg/L	03/31/21 - 11/29/23	11	91	CI around median	0.0005	0.005	Standard	No Exceedance
40	UA	E003	Chloride, total	mg/L	03/31/21 - 11/29/23	11	0	CB around linear reg	6.07	200	Standard	No Exceedance
40	UA	E003	Chromium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
40	UA	E003	Cobalt, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.00516	0.006	Standard	No Exceedance
40	UA	E003	Fluoride, total	mg/L	03/31/21 - 11/29/23	11	82	CI around median	0.1	4.0	Standard	No Exceedance
40	UA	E003	Lead, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
40	UA	E003	Lithium, total	mg/L	03/31/21 - 11/29/23	11	0	CI around median	0.74	0.04	Standard	Exceedance
40	UA	E003	Mercury, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
40	UA	E003	Molybdenum, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.0587	0.1	Standard	No Exceedance
40	UA	E003	pH (field)	SU	03/31/21 - 11/29/23	10	0	CI around mean	6.4/6.6	6.5/9.0	Standard/Standard	No Exceedance
40	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/31/21 - 11/29/23	10	0	CI around mean	0.665	5	Standard	No Exceedance
40	UA	E003	Selenium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
40	UA	E003	Sulfate, total	mg/L	03/31/21 - 11/29/23	11	0	CB around linear reg	2,860	400	Standard	Exceedance
40	UA	E003	Thallium, total	mg/L	03/31/21 - 11/29/23	11	82	CI around median	0.002	0.002	Standard	No Exceedance
40	UA	E003	Total Dissolved Solids	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	4,360	1,200	Standard	Exceedance
41	UA	E003	Antimony, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
41	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/27/23	11	0	CB around linear reg	0.00931	0.0600	Background	No Exceedance
41	UA	E003	Barium, total	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	0.23	2.0	Standard	No Exceedance

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NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
41	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
41	UA	E003	Boron, total	mg/L	03/30/21 - 11/27/23	11	0	CB around linear reg	2.75	2.45	Background	Exceedance
41	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
41	UA	E003	Chloride, total	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	53.2	200	Standard	No Exceedance
41	UA	E003	Chromium, total	mg/L	03/30/21 - 11/27/23	11	91	CI around median	0.0015	0.1	Standard	No Exceedance
41	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.001	0.006	Standard	No Exceedance
41	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/27/23	11	9	CI around median	0.41	4.0	Standard	No Exceedance
41	UA	E003	Lead, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
41	UA	E003	Lithium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.005	0.04	Standard	No Exceedance
41	UA	E003	Mercury, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
41	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.005	0.1	Standard	No Exceedance
41	UA	E003	pH (field)	SU	03/30/21 - 11/27/23	11	0	CI around mean	7.0/7.1	6.5/9.0	Standard/Standard	No Exceedance
41	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/20/21 - 11/27/23	9	0	CI around mean	1.07	5	Standard	No Exceedance
41	UA	E003	Selenium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
41	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/27/23	11	82	CI around median	1	400	Standard	No Exceedance
41	UA	E003	Thallium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.002	0.002	Standard	No Exceedance
41	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	596	1,200	Standard	No Exceedance

TABLE 2.
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VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Notes:
Compliance Result:

- No Exceedance: the statistical result did not exceed the GWPS.
- Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

- LGU = Lower Groundwater Unit
- UA = Uppermost Aquifer

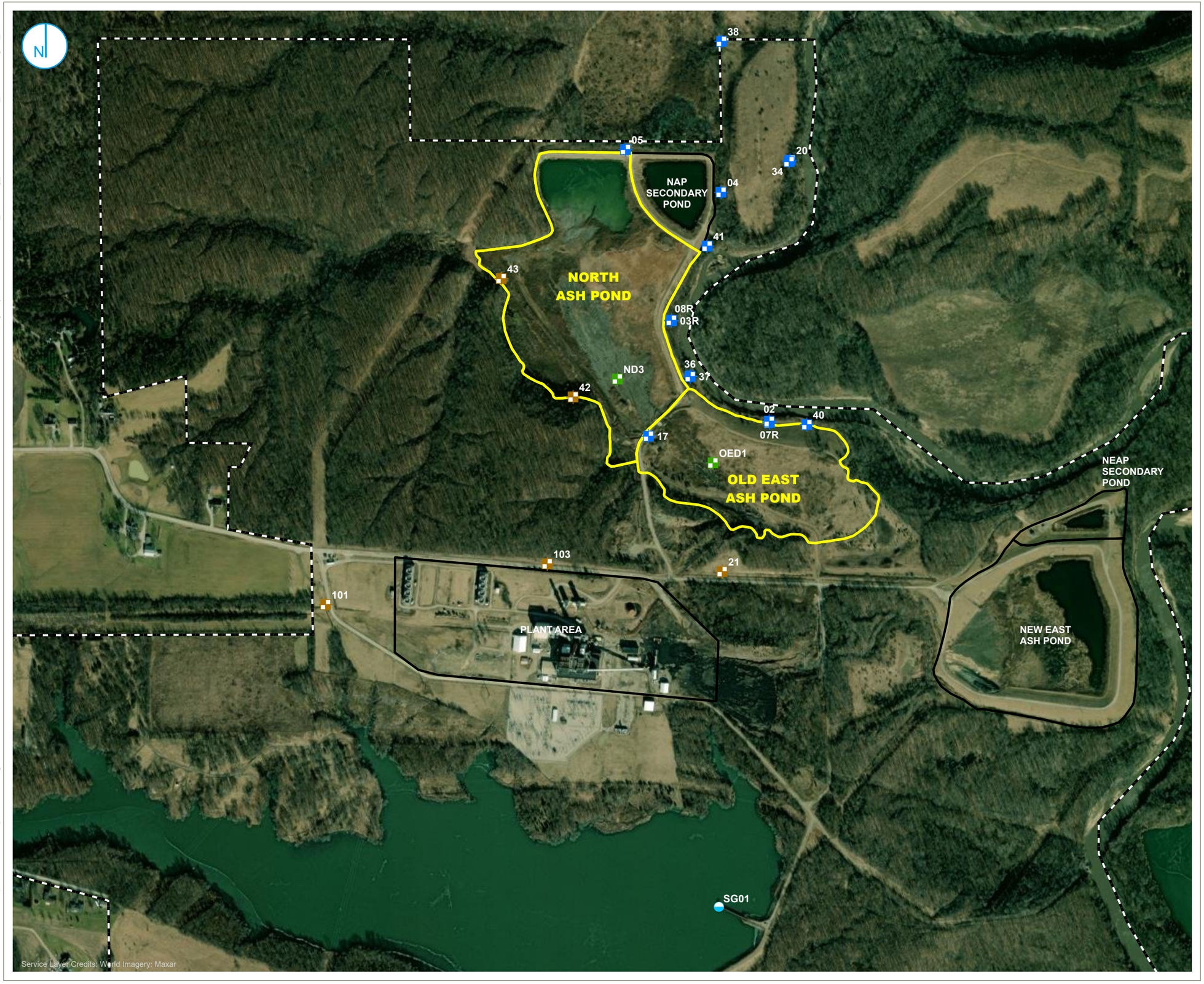
mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:

- All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown
- CB around T-S line = Confidence band around Thiel-Sen line
- CB around linear reg = Confidence band around linear regression
- CI around geomean = Confidence interval around the geometric mean
- CI around mean = Confidence interval around the mean
- CI around median = Confidence interval around the median
- Most recent sample = Result for the most recently collected sample used due to insufficient data

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits
GWPS = Groundwater Protection Standard
GWPS Source:

- Standard = standard specified in 35 I.A.C. § 845.600(a)(1)
- Background = background concentration (see cover page for additional information)

FIGURES



- COMPLIANCE WELL
- BACKGROUND WELL
- SOURCE SAMPLE LOCATION
- STAFF GAGE
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- PROPERTY BOUNDARY

0 300 600 Feet

MONITORING WELL LOCATION MAP

NORTH ASH POND AND OLD EAST ASH POND
VERMILION POWER PLANT
OAKWOOD, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

ATTACHMENTS

ATTACHMENT A
SUMMARY OF GROUNDWATER ELEVATION DATA
QUARTER 4, 2023

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
02	Compliance	11/27/2023	19.54	574.33
03R	Compliance	11/27/2023	9.34	580.52
04	Compliance	11/27/2023	8.67	582.22
05	Compliance	11/27/2023	7.84	587.81
07R	Compliance	11/27/2023	16.31	578.19
08R	Compliance	11/27/2023	15.07	574.79
17	Compliance	11/27/2023	40.76	582.43
20	Compliance	11/27/2023	15.55	576.72
21	Background	11/27/2023	92.10	580.61
34	Compliance	11/27/2023	13.85	578.60
36	Compliance	11/27/2023	15.00	574.96
37	Compliance	11/27/2023	9.25	580.46
38	Compliance	11/27/2023	8.62	583.07
40	Compliance	11/27/2023	17.95	574.32
41	Compliance	11/27/2023	7.25	579.92
42	Background	11/27/2023	27.16	581.24
43	Background	11/27/2023	17.07	590.77
101	Background	11/27/2023	108.81	597.86
103	Background	11/27/2023	138.89	581.49
ND3	Water Level	11/27/2023	23.30	591.25
OED1	Water Level	11/27/2023	43.94	586.47
SG01	Water Level	11/27/2023	19.15	670.17

Notes:
Only wells with groundwater elevations measured are included.
BMP = below measuring point
NAVD88 = North American Vertical Datum of 1988

ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 4, 2023

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701

Generated 01/09/24 09:04:37

JOB DESCRIPTION

VER-23Q4
VER_845_910-911

JOB NUMBER

500-243025-3

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

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 Chicago Project Manager.

Authorization

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01/09/24 09:04:37

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Table of Contents

Case Narrative

Client: Vistra Energy Corp
Project: VER-23Q4

Job ID: 500-243025-3

Job ID: 500-243025-3 — Eurofins Chicago

Job Narrative
500-243025-3

Receipt
The samples were received on 11/28/23 11:23. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 12 coolers at receipt time were 1.6º C, 2.3º C, 2.4º C, 2.5º C, 2.6º C, 2.8º C, 3.2º C, 3.4º C, 3.7º C, 4.2º C, 5.2º C and 5.7º C.

Receipt Exceptions
Per COC: Well dry, sample volume truncated. COC not marked for all analyses requested on the SAR-2X. Logged in per SAR-2X, save Radium analyses due to insufficient sample volume for Rad analysis. VER-071&D (500-243025-26)
Client replied to please analyze sample for total metals and inorganic 845 parameter list, and as sample volume allows including major ions (alkalinity, magnesium, potassium, sodium). A revised COC was provided.

Metals
Method 6020B: The method blank for prep batch 745805 contained Ca above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry
Method SM 2540C: Reanalysis of the following sample was performed outside of the analytical holding time, initial analysis was out of range. VER-040 (500-243025-23).

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

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-005 — Lab Sample ID: 500-243025-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.089		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00051	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.026		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	22		1.0	0.25	mg/L	20		6020B	Total Recoverable
Calcium	99	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0011		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00031	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	23		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.040		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	8.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	22		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	6.0		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	24		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	140		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	620		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.61		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	7.84				ft	1		Field Sampling	Total/NA
Field pH	7.45				SU	1		Field Sampling	Total/NA
Field Temperature	12.80				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	73.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.05				mg/L	1		Field Sampling	Total/NA
Specific Conductance	720.14				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.98				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-041 — Lab Sample ID: 500-243025-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0038	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.013		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.25		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	3.4		0.50	0.13	mg/L	10		6020B	Total Recoverable
Calcium	84	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0012	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.00055	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00045	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-041 (Continued) — Lab Sample ID: 500-243025-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	42		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.9		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0012	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	100		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	49		5.0	0.58	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	550		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	670		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.40		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	7.25				ft	1		Field Sampling	Total/NA
Field pH	7.25				SU	1		Field Sampling	Total/NA
Field Temperature	11.59				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-207.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.14				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1113.3				umhos/cm	1		Field Sampling	Total/NA
Turbidity	75.84				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-101& — Lab Sample ID: 500-243025-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0054	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.053		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.13		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	2.3		0.50	0.13	mg/L	10		6020B	Total Recoverable
Calcium	56	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0012	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.00042	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00032	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	30		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.7		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	87		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	9.9		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	7.7		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	430		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	550		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.82		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	108.81				ft	1		Field Sampling	Total/NA
Field pH	7.55				SU	1		Field Sampling	Total/NA
Field Temperature	10.61				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-101& (Continued) — Lab Sample ID: 500-243025-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxidation Reduction Potential	-146.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.52				mg/L	1		Field Sampling	Total/NA
Specific Conductance	836.55				umhos/cm	1		Field Sampling	Total/NA
Turbidity	24.1				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-004 — Lab Sample ID: 500-243025-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.047		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0082		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.21		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	9.9		0.50	0.13	mg/L	10		6020B	Total Recoverable
Calcium	55	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00087	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00024	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	23		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.040		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	6.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	23		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	9.2		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	1.5		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	270		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	350		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.32		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	8.41				ft	1		Field Sampling	Total/NA
Field pH	7.75				SU	1		Field Sampling	Total/NA
Field Temperature	12.37				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-188.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.61				mg/L	1		Field Sampling	Total/NA
Specific Conductance	466.00				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.78				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-017 — Lab Sample ID: 500-243025-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.029		0.010	0.0040	mg/L	2		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0064		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.027		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Beryllium	0.00094	J	0.0010	0.00053	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-017 (Continued) — Lab Sample ID: 500-243025-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	6.5		0.50	0.13	mg/L	10		6020B	Total Recoverable
Cadmium	0.00024	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	290	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0028		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.0011		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	120		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0054		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	2.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0019	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	37		0.20	0.077	mg/L	1		6020B	Total Recoverable
Thallium	0.00086	J	0.0020	0.00057	mg/L	1		6020B	Total Recoverable
Chloride	25		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	1000		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	350		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.34		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	41.92				ft	1		Field Sampling	Total/NA
Field pH	6.99				SU	1		Field Sampling	Total/NA
Field Temperature	10.99				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	4.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.61				mg/L	1		Field Sampling	Total/NA
Specific Conductance	41.8				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2112.3				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-020 — Lab Sample ID: 500-243025-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.024		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0034		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.022		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.5		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	95	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0013		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00021	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	37		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	1.1		0.50	0.11	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-020 (Continued) — Lab Sample ID: 500-243025-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.0011	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	9.8		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	4.5		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	85		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	300		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	480		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.078	J	0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	15.62				ft	1		Field Sampling	Total/NA
Field pH	7.19				SU	1		Field Sampling	Total/NA
Field Temperature	11.95				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-74.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.28				mg/L	1		Field Sampling	Total/NA
Specific Conductance	628.92				umhos/cm	1		Field Sampling	Total/NA
Turbidity	12.1				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-021 — Lab Sample ID: 500-243025-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.055		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.82		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	56	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	27		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0042	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	2.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0010	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	53		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	1.6		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	1.5		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	350		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	400		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	1.1		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	92.23				ft	1		Field Sampling	Total/NA
Field pH	7.63				SU	1		Field Sampling	Total/NA
Field Temperature	11.14				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-138.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.42				mg/L	1		Field Sampling	Total/NA
Specific Conductance	643.60				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.42				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-034 — Lab Sample ID: 500-243025-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0062	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.034		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.19		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.47		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	66	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0035	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0017		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.0029		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	36		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	71		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	34		1.0	0.12	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	460		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	540		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.62		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	15.23				ft	1		Field Sampling	Total/NA
Field pH	7.26				SU	1		Field Sampling	Total/NA
Field Temperature	9.99				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-166.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.24				mg/L	1		Field Sampling	Total/NA
Specific Conductance	837.07				umhos/cm	1		Field Sampling	Total/NA
Turbidity	64.2				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-036 — Lab Sample ID: 500-243025-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.13	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0083		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.14		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	11		0.50	0.13	mg/L	10		6020B	Total Recoverable
Calcium	290	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0032	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0030		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.0049		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	74		0.20	0.049	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-036 (Continued) — Lab Sample ID: 500-243025-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.12		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	13		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	39		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	21		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	940		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	210		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1800		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.25		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	15.07				ft	1		Field Sampling	Total/NA
Field pH	7.28				SU	1		Field Sampling	Total/NA
Field Temperature	11.80				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-132.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.73				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1706.2				umhos/cm	1		Field Sampling	Total/NA
Turbidity	80.4				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-037 — Lab Sample ID: 500-243025-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.037		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.36		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.8		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	120	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00040	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00033	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	59		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.9		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0011	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	88		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	37		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	32		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	400		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	950		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.55		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	9.37				ft	1		Field Sampling	Total/NA
Field pH	7.11				SU	1		Field Sampling	Total/NA
Field Temperature	9.15				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-160.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.49				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1275.7				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-037 (Continued) — Lab Sample ID: 500-243025-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	16.89				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-038 — Lab Sample ID: 500-243025-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0031	J B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.030		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.21		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.43		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	71	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00046	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00038	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	35		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.7		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	84		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	17		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	0.70	J	1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	510		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	540		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.36		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	8.65				ft	1		Field Sampling	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA
Field Temperature	11.56				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-152.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.72				mg/L	1		Field Sampling	Total/NA
Specific Conductance	768.24				umhos/cm	1		Field Sampling	Total/NA
Turbidity	10.0				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-042 — Lab Sample ID: 500-243025-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0020	J B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.020		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.17		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.57		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	82	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00046	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-042 (Continued) — Lab Sample ID: 500-243025-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00047	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	48		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0011	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	58		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	16		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	39		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	460		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	590		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.52		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	27.16				ft	1		Field Sampling	Total/NA
Field pH	7.64				SU	1		Field Sampling	Total/NA
Field Temperature	9.78				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-183.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.24				mg/L	1		Field Sampling	Total/NA
Specific Conductance	848.91				umhos/cm	1		Field Sampling	Total/NA
Turbidity	35.15				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-043 — Lab Sample ID: 500-243025-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.011	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0096		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.51		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.1		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	68	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0013	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.00066	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00095		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	41		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	4.7		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	110		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	75		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	2.5		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	480		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	650		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.48		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	17.28				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-043 (Continued) — Lab Sample ID: 500-243025-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.43				SU	1		Field Sampling	Total/NA
Field Temperature	9.82				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-152.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.67				mg/L	1		Field Sampling	Total/NA
Specific Conductance	998.97				umhos/cm	1		Field Sampling	Total/NA
Turbidity	13.3				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-103& — Lab Sample ID: 500-243025-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.066	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0015		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.028		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.47		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	210	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0012		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00027	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	220		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0071		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	2.9		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0014	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	47		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	8.5		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	1100		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	370		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.29		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	138.39				ft	1		Field Sampling	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA
Field Temperature	10.22				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	226.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.87				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2229.4				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.70				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-038_FD — Lab Sample ID: 500-243025-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0022	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.030		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.21		0.0025	0.00073	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-038_FD (Continued) — Lab Sample ID: 500-243025-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.45		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	70	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0013	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0014		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00060		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	36		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0028	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	2.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0014	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	87		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	17		1.0	0.12	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	510		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	590		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.36		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	8.65				ft	1		Field Sampling	Total/NA
Field pH	7.15				SU	1		Field Sampling	Total/NA
Field Temperature	11.56				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-152.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.72				mg/L	1		Field Sampling	Total/NA
Specific Conductance	768.24				umhos/cm	1		Field Sampling	Total/NA
Turbidity	10.0				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-002 — Lab Sample ID: 500-243025-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0024	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0061		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.20		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.31		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	85	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00030	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	36		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0014	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	85		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	54		2.0	0.23	mg/L	2		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-002 (Continued) — Lab Sample ID: 500-243025-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	24		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	440		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	620		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.59		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	19.59				ft	1		Field Sampling	Total/NA
Field pH	8.00				SU	1		Field Sampling	Total/NA
Field Temperature	12.57				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-117.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.69				mg/L	1		Field Sampling	Total/NA
Specific Conductance	940.82				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.31				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-003R — Lab Sample ID: 500-243025-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0049	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.014		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.32		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	24		1.0	0.25	mg/L	20		6020B	Total Recoverable
Cadmium	0.0011		0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	140	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0035	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0021		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.0032		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	57		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.28		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	3.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	90		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	26		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	470		20	4.1	mg/L	20		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	320		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1200		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.43		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	9.31				ft	1		Field Sampling	Total/NA
Field pH	7.55				SU	1		Field Sampling	Total/NA
Field Temperature	11.01				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-130.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.39				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1392.3				umhos/cm	1		Field Sampling	Total/NA
Turbidity	149.00				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-008R — Lab Sample ID: 500-243025-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.41		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.025		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.049		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	37		1.0	0.25	mg/L	20		6020B	Total Recoverable
Calcium	280	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00047	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	34		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.30		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	20		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	40		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	7.2		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	830		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	110		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1500		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	15.07				ft	1		Field Sampling	Total/NA
Field pH	8.10				SU	1		Field Sampling	Total/NA
Field Temperature	11.42				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-137.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.20				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1519.3				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.18				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-040 — Lab Sample ID: 500-243025-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.82		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.023		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.033		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	25	B	1.0	0.25	mg/L	20		6020B	Total Recoverable
Calcium	580	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0085		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	180		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.048		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	44		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-040 (Continued) — Lab Sample ID: 500-243025-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	42	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	8.4		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	3200		200	41	mg/L	200		300.0	Total/NA
Total Dissolved Solids	5300	H	25	11	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	14.96				ft	1		Field Sampling	Total/NA
Field pH	6.58				SU	1		Field Sampling	Total/NA
Field Temperature	11.89				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-91.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.18				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4328.5				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.20				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER-002_FD — Lab Sample ID: 500-243025-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0040	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0091		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.20		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.32	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	84	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00027	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	35		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0012	J B	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	82	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	46		2.0	0.23	mg/L	2		300.0	Total/NA
Sulfate	21		2.0	0.41	mg/L	2		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	440		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	580		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.57		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	19.59				ft	1		Field Sampling	Total/NA
Field pH	8.00				SU	1		Field Sampling	Total/NA
Field Temperature	12.57				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-117.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.69				mg/L	1		Field Sampling	Total/NA
Specific Conductance	940.82				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.31				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2320B	Alkalinity	SM	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
SM 4500 F C	Fluoride	SM	EET CHI
Field Sampling	Field Sampling	EPA	EET CHI
200.7	Preparation, Total Recoverable Metals	EPA	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243025-1	VER-005	Water	11/27/23 14:34	11/28/23 11:23
500-243025-2	VER-041	Water	11/27/23 15:27	11/28/23 11:23
500-243025-3	VER-101&	Water	11/27/23 15:50	11/28/23 11:23
500-243025-4	VER-004	Water	11/28/23 13:15	11/29/23 11:15
500-243025-6	VER-017	Water	11/28/23 15:00	11/29/23 11:15
500-243025-7	VER-020	Water	11/28/23 14:28	11/29/23 11:15
500-243025-8	VER-021	Water	11/28/23 16:03	11/29/23 11:15
500-243025-10	VER-034	Water	11/28/23 15:09	11/29/23 11:15
500-243025-11	VER-036	Water	11/28/23 15:48	11/29/23 11:15
500-243025-12	VER-037	Water	11/28/23 08:44	11/29/23 11:15
500-243025-13	VER-038	Water	11/28/23 12:19	11/29/23 11:15
500-243025-14	VER-042	Water	11/28/23 10:26	11/29/23 11:15
500-243025-15	VER-043	Water	11/28/23 11:17	11/29/23 11:15
500-243025-16	VER-103&	Water	11/28/23 09:15	11/29/23 11:15
500-243025-17	VER-038_FD	Water	11/28/23 12:24	11/29/23 11:15
500-243025-18	VER-002	Water	11/29/23 10:07	11/30/23 10:09
500-243025-19	VER-003R	Water	11/29/23 08:28	11/30/23 10:09
500-243025-20	VER-008R	Water	11/29/23 08:57	11/30/23 10:09
500-243025-23	VER-040	Water	11/29/23 10:57	11/30/23 10:09
500-243025-29	VER-002_FD	Water	11/29/23 10:12	11/30/23 10:09

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-005

Date Collected: 11/27/23 14:34
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-1

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.089		0.0050	0.0020	mg/L		12/08/23 17:29	12/11/23 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 22:46	1
Arsenic	0.00051	J	0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 22:46	1
Barium	0.026		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 22:46	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 22:46	1
Boron	22		1.0	0.25	mg/L		12/08/23 09:17	12/22/23 12:38	20
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 22:46	1
Calcium	99	B	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 22:46	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 22:46	1
Cobalt	0.0011		0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 22:46	1
Lead	0.00031	J	0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 22:46	1
Magnesium	23		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 22:46	1
Molybdenum	0.040		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 22:46	1
Potassium	8.4		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 22:46	1
Selenium	0.0013	J B	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 22:46	1
Sodium	22		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 22:46	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 22:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	6.0		5.0	0.58	mg/L			11/28/23 17:00	5
Sulfate (EPA 300.0)	24		1.0	0.21	mg/L			11/28/23 17:46	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	140		5.0	3.7	mg/L			11/30/23 12:06	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 12:06	1
Total Dissolved Solids (SM 2540C)	620		10	4.3	mg/L			11/28/23 21:30	1
Fluoride (SM 4500 F C)	0.61		0.10	0.056	mg/L			12/06/23 17:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	7.84				ft			11/27/23 14:34	1
Field pH	7.45				SU			11/27/23 14:34	1
Field Temperature	12.80				Degrees C			11/27/23 14:34	1
Oxidation Reduction Potential	73.8				millivolts			11/27/23 14:34	1
Oxygen, Dissolved	0.05				mg/L			11/27/23 14:34	1
Specific Conductance	720.14				umhos/cm			11/27/23 14:34	1
Turbidity	0.98				NTU			11/27/23 14:34	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-041

Date Collected: 11/27/23 15:27
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-2

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0038**	**J**	0.0050	0.0020	mg/L		12/08/23 17:29	12/11/23 17:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 22:50	1
Arsenic	**0.013**		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 22:50	1
Barium	**0.25**		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 22:50	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 22:50	1
Boron	**3.4**		0.50	0.13	mg/L		12/08/23 09:17	12/22/23 12:42	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 22:50	1
Calcium	**84**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 22:50	1
Chromium	**0.0012**	**J**	0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 22:50	1
Cobalt	**0.00055**	**J**	0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 22:50	1
Lead	**0.00045**	**J**	0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 22:50	1
Magnesium	**42**		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 22:50	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 22:50	1
Potassium	**2.9**		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 22:50	1
Selenium	**0.0012**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 22:50	1
Sodium	**100**		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 22:50	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 22:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**49**		5.0	0.58	mg/L			11/28/23 17:15	5
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			11/28/23 18:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**550**		5.0	3.7	mg/L			11/30/23 12:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 12:15	1
Total Dissolved Solids (SM 2540C)	**670**		10	4.3	mg/L			11/28/23 21:32	1
Fluoride (SM 4500 F C)	**0.40**		0.10	0.056	mg/L			12/06/23 17:38	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**7.25**				ft			11/27/23 15:27	1
Field pH	**7.25**				SU			11/27/23 15:27	1
Field Temperature	**11.59**				Degrees C			11/27/23 15:27	1
Oxidation Reduction Potential	**-207.5**				millivolts			11/27/23 15:27	1
Oxygen, Dissolved	**0.14**				mg/L			11/27/23 15:27	1
Specific Conductance	**1113.3**				umhos/cm			11/27/23 15:27	1
Turbidity	**75.84**				NTU			11/27/23 15:27	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-101&

Date Collected: 11/27/23 15:50
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-3

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0054**	**B**	0.0050	0.0020	mg/L		12/08/23 17:35	12/11/23 17:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:00	1
Arsenic	**0.053**		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:00	1
Barium	**0.13**		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:00	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:00	1
Boron	**2.3**		0.50	0.13	mg/L		12/08/23 09:17	12/22/23 12:46	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:00	1
Calcium	**56**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:00	1
Chromium	**0.0012**	**J**	0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:00	1
Cobalt	**0.00042**	**J**	0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:00	1
Lead	**0.00032**	**J**	0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:00	1
Magnesium	**30**		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:00	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:00	1
Potassium	**2.7**		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:00	1
Selenium	**0.0013**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:00	1
Sodium	**87**		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:00	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**9.9**		5.0	0.58	mg/L			11/28/23 17:30	5
Sulfate (EPA 300.0)	**7.7**		5.0	1.0	mg/L			11/28/23 17:30	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**430**		5.0	3.7	mg/L			11/30/23 12:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 12:25	1
Total Dissolved Solids (SM 2540C)	**550**		10	4.3	mg/L			11/28/23 21:35	1
Fluoride (SM 4500 F C)	**0.82**		0.10	0.056	mg/L			12/06/23 17:42	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**108.81**				ft			11/27/23 15:50	1
Field pH	**7.55**				SU			11/27/23 15:50	1
Field Temperature	**10.61**				Degrees C			11/27/23 15:50	1
Oxidation Reduction Potential	**-146.1**				millivolts			11/27/23 15:50	1
Oxygen, Dissolved	**0.52**				mg/L			11/27/23 15:50	1
Specific Conductance	**836.55**				umhos/cm			11/27/23 15:50	1
Turbidity	**24.1**				NTU			11/27/23 15:50	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-004

Date Collected: 11/28/23 13:15
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-4

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.047**		0.0050	0.0020	mg/L		12/06/23 19:08	12/07/23 13:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:03	1
Arsenic	**0.0082**		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:03	1
Barium	**0.21**		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:03	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:03	1
Boron	**9.9**		0.50	0.13	mg/L		12/08/23 09:17	12/22/23 12:50	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:03	1
Calcium	**55**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:03	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:03	1
Cobalt	**0.00087**	**J**	0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:03	1
Lead	**0.00024**	**J**	0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:03	1
Magnesium	**23**		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:03	1
Molybdenum	**0.040**		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:03	1
Potassium	**6.2**		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:03	1
Selenium	**0.0013**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:03	1
Sodium	**23**		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:03	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**9.2**		1.0	0.12	mg/L			12/01/23 05:48	1
Sulfate (EPA 300.0)	**1.5**		1.0	0.21	mg/L			12/01/23 05:48	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**270**		5.0	3.7	mg/L			11/30/23 12:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 12:35	1
Total Dissolved Solids (SM 2540C)	**350**		10	4.3	mg/L			11/29/23 23:09	1
Fluoride (SM 4500 F C)	**0.32**		0.10	0.056	mg/L			12/06/23 19:24	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**8.41**				ft			11/28/23 13:15	1
Field pH	**7.75**				SU			11/28/23 13:15	1
Field Temperature	**12.37**				Degrees C			11/28/23 13:15	1
Oxidation Reduction Potential	**-188.6**				millivolts			11/28/23 13:15	1
Oxygen, Dissolved	**0.61**				mg/L			11/28/23 13:15	1
Specific Conductance	**466.00**				umhos/cm			11/28/23 13:15	1
Turbidity	**7.78**				NTU			11/28/23 13:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-017

Date Collected: 11/28/23 15:00
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-6

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.029		0.010	0.0040	mg/L		12/06/23 19:08	12/08/23 16:45	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:24	1
Arsenic	0.0064		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:24	1
Barium	0.027		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:24	1
Beryllium	0.00094	J	0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:24	1
Boron	6.5		0.50	0.13	mg/L		12/08/23 09:17	12/22/23 13:20	10
Cadmium	0.00024	J	0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:24	1
Calcium	290	B	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:24	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:24	1
Cobalt	0.0028		0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:24	1
Lead	0.0011		0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:24	1
Magnesium	120		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:24	1
Molybdenum	0.0054		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:24	1
Potassium	2.3		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:24	1
Selenium	0.0019	J B	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:24	1
Sodium	37		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:24	1
Thallium	0.00086	J	0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	25		5.0	0.58	mg/L			11/29/23 19:03	5
Sulfate (EPA 300.0)	1000		50	10	mg/L			12/01/23 06:48	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	350		5.0	3.7	mg/L			11/30/23 13:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 13:08	1
Total Dissolved Solids (SM 2540C)	2100		10	4.3	mg/L			11/29/23 23:19	1
Fluoride (SM 4500 F C)	0.34		0.10	0.056	mg/L			12/07/23 13:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	41.92				ft			11/28/23 15:00	1
Field pH	6.99				SU			11/28/23 15:00	1
Field Temperature	10.99				Degrees C			11/28/23 15:00	1
Oxidation Reduction Potential	4.0				millivolts			11/28/23 15:00	1
Oxygen, Dissolved	0.61				mg/L			11/28/23 15:00	1
Specific Conductance	41.8				umhos/cm			11/28/23 15:00	1
Turbidity	2112.3				NTU			11/28/23 15:00	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-020

Date Collected: 11/28/23 14:28
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-7

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.024**		0.0050	0.0020	mg/L		12/06/23 19:08	12/07/23 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:28	1
Arsenic	**0.0034**		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:28	1
Barium	**0.022**		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:28	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:28	1
Boron	**1.5**		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 13:24	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:28	1
Calcium	**95**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:28	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:28	1
Cobalt	**0.0013**		0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:28	1
Lead	**0.00021**	**J**	0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:28	1
Magnesium	**37**		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:28	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:28	1
Potassium	**1.1**		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:28	1
Selenium	**0.0011**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:28	1
Sodium	**9.8**		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:28	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 07:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**4.5**		1.0	0.12	mg/L			12/01/23 10:48	1
Sulfate (EPA 300.0)	**85**		5.0	1.0	mg/L			11/29/23 19:18	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**300**		5.0	3.7	mg/L			11/30/23 13:17	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 13:17	1
Total Dissolved Solids (SM 2540C)	**480**		10	4.3	mg/L			11/29/23 23:22	1
Fluoride (SM 4500 F C)	**0.078**	**J**	0.10	0.056	mg/L			12/07/23 14:02	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**15.62**				ft			11/28/23 14:28	1
Field pH	**7.19**				SU			11/28/23 14:28	1
Field Temperature	**11.95**				Degrees C			11/28/23 14:28	1
Oxidation Reduction Potential	**-74.7**				millivolts			11/28/23 14:28	1
Oxygen, Dissolved	**0.28**				mg/L			11/28/23 14:28	1
Specific Conductance	**628.92**				umhos/cm			11/28/23 14:28	1
Turbidity	**12.1**				NTU			11/28/23 14:28	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-021

Date Collected: 11/28/23 16:03
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-8

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		12/06/23 19:08	12/07/23 13:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:31	1
Arsenic	**0.055**		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:31	1
Barium	**0.12**		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:31	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:31	1
Boron	**0.82**		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 13:27	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:31	1
Calcium	**56**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:31	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:31	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:31	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:31	1
Magnesium	**27**		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:31	1
Molybdenum	**0.0042**	**J**	0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:31	1
Potassium	**2.2**		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:31	1
Selenium	**0.0010**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:31	1
Sodium	**53**		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:31	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 07:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**1.6**		1.0	0.12	mg/L			12/01/23 11:03	1
Sulfate (EPA 300.0)	**1.5**		1.0	0.21	mg/L			12/01/23 11:03	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**350**		5.0	3.7	mg/L			11/30/23 13:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 13:41	1
Total Dissolved Solids (SM 2540C)	**400**		10	4.3	mg/L			11/29/23 23:24	1
Fluoride (SM 4500 F C)	**1.1**		0.10	0.056	mg/L			12/07/23 14:08	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**92.23**				ft			11/28/23 16:03	1
Field pH	**7.63**				SU			11/28/23 16:03	1
Field Temperature	**11.14**				Degrees C			11/28/23 16:03	1
Oxidation Reduction Potential	**-138.2**				millivolts			11/28/23 16:03	1
Oxygen, Dissolved	**0.42**				mg/L			11/28/23 16:03	1
Specific Conductance	**643.60**				umhos/cm			11/28/23 16:03	1
Turbidity	**7.42**				NTU			11/28/23 16:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-034

Date Collected: 11/28/23 15:09
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-10

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0062**	**B**	0.0050	0.0020	mg/L		12/08/23 17:35	12/11/23 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:41	1
Arsenic	**0.034**		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:41	1
Barium	**0.19**		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:41	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:41	1
Boron	**0.47**		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 13:31	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:41	1
Calcium	**66**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:41	1
Chromium	**0.0035**	**J**	0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:41	1
Cobalt	**0.0017**		0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:41	1
Lead	**0.0029**		0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:41	1
Magnesium	**36**		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:41	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:41	1
Potassium	**2.8**		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:41	1
Selenium	**0.0013**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:41	1
Sodium	**71**		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:41	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**34**		1.0	0.12	mg/L			12/01/23 11:19	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			12/01/23 11:19	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**460**		5.0	3.7	mg/L			11/30/23 13:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 13:51	1
Total Dissolved Solids (SM 2540C)	**540**		10	4.3	mg/L			11/30/23 00:55	1
Fluoride (SM 4500 F C)	**0.62**		0.10	0.056	mg/L			12/07/23 14:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**15.23**				ft			11/28/23 15:09	1
Field pH	**7.26**				SU			11/28/23 15:09	1
Field Temperature	**9.99**				Degrees C			11/28/23 15:09	1
Oxidation Reduction Potential	**-166.3**				millivolts			11/28/23 15:09	1
Oxygen, Dissolved	**0.24**				mg/L			11/28/23 15:09	1
Specific Conductance	**837.07**				umhos/cm			11/28/23 15:09	1
Turbidity	**64.2**				NTU			11/28/23 15:09	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-036

Date Collected: 11/28/23 15:48
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-11

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.13	B	0.0050	0.0020	mg/L		12/08/23 17:35	12/11/23 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:45	1
Arsenic	0.0083		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:45	1
Barium	0.14		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:45	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:45	1
Boron	11		0.50	0.13	mg/L		12/08/23 09:17	12/22/23 13:35	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:45	1
Calcium	290	B	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:45	1
Chromium	0.0032	J	0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:45	1
Cobalt	0.0030		0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:45	1
Lead	0.0049		0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:45	1
Magnesium	74		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:45	1
Molybdenum	0.12		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:45	1
Potassium	13		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:45	1
Selenium	0.0013	J B	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:45	1
Sodium	39		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:45	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:45	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	21		5.0	0.58	mg/L			11/29/23 21:19	5
Sulfate (EPA 300.0)	940		50	10	mg/L			12/01/23 11:35	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	210		5.0	3.7	mg/L			11/30/23 14:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 14:01	1
Total Dissolved Solids (SM 2540C)	1800		10	4.3	mg/L			11/30/23 01:01	1
Fluoride (SM 4500 F C)	0.25		0.10	0.056	mg/L			12/07/23 14:42	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	15.07				ft			11/28/23 15:48	1
Field pH	7.28				SU			11/28/23 15:48	1
Field Temperature	11.80				Degrees C			11/28/23 15:48	1
Oxidation Reduction Potential	-132.8				millivolts			11/28/23 15:48	1
Oxygen, Dissolved	0.73				mg/L			11/28/23 15:48	1
Specific Conductance	1706.2				umhos/cm			11/28/23 15:48	1
Turbidity	80.4				NTU			11/28/23 15:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-037

Date Collected: 11/28/23 08:44
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-12

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		12/08/23 17:35	12/11/23 18:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:48	1
Arsenic	**0.037**		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:48	1
Barium	**0.36**		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:48	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:48	1
Boron	**1.8**		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 13:46	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:48	1
Calcium	**120**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:48	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:48	1
Cobalt	**0.00040**	**J**	0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:48	1
Lead	**0.00033**	**J**	0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:48	1
Magnesium	**59**		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:48	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:48	1
Potassium	**2.9**		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:48	1
Selenium	**0.0011**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:48	1
Sodium	**88**		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:48	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**37**		5.0	0.58	mg/L			11/29/23 21:34	5
Sulfate (EPA 300.0)	**32**		1.0	0.21	mg/L			12/01/23 11:50	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**400**		5.0	3.7	mg/L			11/30/23 14:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 14:10	1
Total Dissolved Solids (SM 2540C)	**950**		10	4.3	mg/L			11/30/23 01:03	1
Fluoride (SM 4500 F C)	**0.55**		0.10	0.056	mg/L			12/07/23 14:47	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**9.37**				ft			11/28/23 08:44	1
Field pH	**7.11**				SU			11/28/23 08:44	1
Field Temperature	**9.15**				Degrees C			11/28/23 08:44	1
Oxidation Reduction Potential	**-160.9**				millivolts			11/28/23 08:44	1
Oxygen, Dissolved	**0.49**				mg/L			11/28/23 08:44	1
Specific Conductance	**1275.7**				umhos/cm			11/28/23 08:44	1
Turbidity	**16.89**				NTU			11/28/23 08:44	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-038

Date Collected: 11/28/23 12:19
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-13

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0031**	**J B**	0.0050	0.0020	mg/L		12/08/23 17:35	12/11/23 18:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:52	1
Arsenic	**0.030**		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:52	1
Barium	**0.21**		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:52	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:52	1
Boron	**0.43**		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 13:50	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:52	1
Calcium	**71**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:52	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:52	1
Cobalt	**0.00046**	**J**	0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:52	1
Lead	**0.00038**	**J**	0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:52	1
Magnesium	**35**		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:52	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:52	1
Potassium	**2.7**		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:52	1
Selenium	**0.0013**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:52	1
Sodium	**84**		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:52	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:52	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**17**		1.0	0.12	mg/L			12/01/23 12:06	1
Sulfate (EPA 300.0)	**0.70**	**J**	1.0	0.21	mg/L			12/01/23 12:06	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**510**		5.0	3.7	mg/L			11/30/23 14:20	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 14:20	1
Total Dissolved Solids (SM 2540C)	**540**		10	4.3	mg/L			11/30/23 01:06	1
Fluoride (SM 4500 F C)	**0.36**		0.10	0.056	mg/L			12/07/23 14:51	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**8.65**				ft			11/28/23 12:19	1
Field pH	**7.15**				SU			11/28/23 12:19	1
Field Temperature	**11.56**				Degrees C			11/28/23 12:19	1
Oxidation Reduction Potential	**-152.7**				millivolts			11/28/23 12:19	1
Oxygen, Dissolved	**0.72**				mg/L			11/28/23 12:19	1
Specific Conductance	**768.24**				umhos/cm			11/28/23 12:19	1
Turbidity	**10.0**				NTU			11/28/23 12:19	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-042

Date Collected: 11/28/23 10:26
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-14

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0020**	**J B**	0.0050	0.0020	mg/L		12/08/23 17:35	12/11/23 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:55	1
Arsenic	**0.020**		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:55	1
Barium	**0.17**		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:55	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:55	1
Boron	**0.57**		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 13:54	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:55	1
Calcium	**82**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:55	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:55	1
Cobalt	**0.00046**	**J**	0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:55	1
Lead	**0.00047**	**J**	0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:55	1
Magnesium	**48**		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:55	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:55	1
Potassium	**2.6**		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:55	1
Selenium	**0.0011**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:55	1
Sodium	**58**		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:55	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:55	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**16**		5.0	0.58	mg/L			11/29/23 22:05	5
Sulfate (EPA 300.0)	**39**		5.0	1.0	mg/L			11/29/23 22:05	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**460**		5.0	3.7	mg/L			11/30/23 14:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 14:33	1
Total Dissolved Solids (SM 2540C)	**590**		10	4.3	mg/L			11/30/23 01:08	1
Fluoride (SM 4500 F C)	**0.52**		0.10	0.056	mg/L			12/07/23 14:56	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**27.16**				ft			11/28/23 10:26	1
Field pH	**7.64**				SU			11/28/23 10:26	1
Field Temperature	**9.78**				Degrees C			11/28/23 10:26	1
Oxidation Reduction Potential	**-183.4**				millivolts			11/28/23 10:26	1
Oxygen, Dissolved	**0.24**				mg/L			11/28/23 10:26	1
Specific Conductance	**848.91**				umhos/cm			11/28/23 10:26	1
Turbidity	**35.15**				NTU			11/28/23 10:26	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-043

Date Collected: 11/28/23 11:17
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-15

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.011**	**B**	0.0050	0.0020	mg/L		12/08/23 17:35	12/11/23 18:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 23:59	1
Arsenic	**0.0096**		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 23:59	1
Barium	**0.51**		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 23:59	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 23:59	1
Boron	**1.1**		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 13:58	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 23:59	1
Calcium	**68**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/19/23 23:59	1
Chromium	**0.0013**	**J**	0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 23:59	1
Cobalt	**0.00066**	**J**	0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 23:59	1
Lead	**0.00095**		0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 23:59	1
Magnesium	**41**		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 23:59	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 23:59	1
Potassium	**4.7**		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 23:59	1
Selenium	**0.0013**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 23:59	1
Sodium	**110**		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 23:59	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 23:59	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**75**		5.0	0.58	mg/L			11/29/23 22:20	5
Sulfate (EPA 300.0)	**2.5**		1.0	0.21	mg/L			12/01/23 12:22	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**480**		5.0	3.7	mg/L			11/30/23 14:43	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 14:43	1
Total Dissolved Solids (SM 2540C)	**650**		10	4.3	mg/L			11/30/23 01:11	1
Fluoride (SM 4500 F C)	**0.48**		0.10	0.056	mg/L			12/07/23 15:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**17.28**				ft			11/28/23 11:17	1
Field pH	**7.43**				SU			11/28/23 11:17	1
Field Temperature	**9.82**				Degrees C			11/28/23 11:17	1
Oxidation Reduction Potential	**-152.1**				millivolts			11/28/23 11:17	1
Oxygen, Dissolved	**0.67**				mg/L			11/28/23 11:17	1
Specific Conductance	**998.97**				umhos/cm			11/28/23 11:17	1
Turbidity	**13.3**				NTU			11/28/23 11:17	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-103&
Date Collected: 11/28/23 09:15
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-16
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.066**	**B**	0.0050	0.0020	mg/L		12/08/23 17:35	12/11/23 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/20/23 00:02	1
Arsenic	**0.0015**		0.0010	0.00023	mg/L		12/08/23 09:17	12/20/23 00:02	1
Barium	**0.028**		0.0025	0.00073	mg/L		12/08/23 09:17	12/20/23 00:02	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/20/23 00:02	1
Boron	**0.47**		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 14:01	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/20/23 00:02	1
Calcium	**210**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/20/23 00:02	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/20/23 00:02	1
Cobalt	**0.0012**		0.0010	0.00040	mg/L		12/08/23 09:17	12/20/23 00:02	1
Lead	**0.00027**	**J**	0.00050	0.00019	mg/L		12/08/23 09:17	12/20/23 00:02	1
Magnesium	**220**		0.20	0.049	mg/L		12/08/23 09:17	12/20/23 00:02	1
Molybdenum	**0.0071**		0.0050	0.0025	mg/L		12/08/23 09:17	12/20/23 00:02	1
Potassium	**2.9**		0.50	0.11	mg/L		12/08/23 09:17	12/20/23 00:02	1
Selenium	**0.0014**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/20/23 00:02	1
Sodium	**47**		0.20	0.077	mg/L		12/08/23 09:17	12/20/23 00:02	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/20/23 00:02	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**8.5**		5.0	0.58	mg/L			11/29/23 22:35	5
Sulfate (EPA 300.0)	**1100**		50	10	mg/L			12/01/23 12:37	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**370**		5.0	3.7	mg/L			11/30/23 14:54	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 14:54	1
Total Dissolved Solids (SM 2540C)	**2100**		10	4.3	mg/L			11/30/23 01:14	1
Fluoride (SM 4500 F C)	**0.29**		0.10	0.056	mg/L			12/07/23 15:06	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**138.39**				ft			11/28/23 09:15	1
Field pH	**7.15**				SU			11/28/23 09:15	1
Field Temperature	**10.22**				Degrees C			11/28/23 09:15	1
Oxidation Reduction Potential	**226.0**				millivolts			11/28/23 09:15	1
Oxygen, Dissolved	**2.87**				mg/L			11/28/23 09:15	1
Specific Conductance	**2229.4**				umhos/cm			11/28/23 09:15	1
Turbidity	**0.70**				NTU			11/28/23 09:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-038_FD

Date Collected: 11/28/23 12:24
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-17

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0022	J	0.0050	0.0020	mg/L		12/11/23 09:08	12/12/23 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/20/23 00:06	1
Arsenic	0.030		0.0010	0.00023	mg/L		12/08/23 09:17	12/20/23 00:06	1
Barium	0.21		0.0025	0.00073	mg/L		12/08/23 09:17	12/20/23 00:06	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/20/23 00:06	1
Boron	0.45		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 14:05	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/20/23 00:06	1
Calcium	70	B	0.20	0.044	mg/L		12/08/23 09:17	12/20/23 00:06	1
Chromium	0.0013	J	0.0050	0.0011	mg/L		12/08/23 09:17	12/20/23 00:06	1
Cobalt	0.0014		0.0010	0.00040	mg/L		12/08/23 09:17	12/20/23 00:06	1
Lead	0.00060		0.00050	0.00019	mg/L		12/08/23 09:17	12/20/23 00:06	1
Magnesium	36		0.20	0.049	mg/L		12/08/23 09:17	12/20/23 00:06	1
Molybdenum	0.0028	J	0.0050	0.0025	mg/L		12/08/23 09:17	12/20/23 00:06	1
Potassium	2.8		0.50	0.11	mg/L		12/08/23 09:17	12/20/23 00:06	1
Selenium	0.0014	J B	0.0025	0.00098	mg/L		12/08/23 09:17	12/20/23 00:06	1
Sodium	87		0.20	0.077	mg/L		12/08/23 09:17	12/20/23 00:06	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/20/23 00:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	17		1.0	0.12	mg/L			12/01/23 12:53	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			12/01/23 12:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	510		5.0	3.7	mg/L			11/30/23 15:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 15:04	1
Total Dissolved Solids (SM 2540C)	590		10	4.3	mg/L			11/30/23 01:16	1
Fluoride (SM 4500 F C)	0.36		0.10	0.056	mg/L			12/07/23 15:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	8.65				ft			11/28/23 12:24	1
Field pH	7.15				SU			11/28/23 12:24	1
Field Temperature	11.56				Degrees C			11/28/23 12:24	1
Oxidation Reduction Potential	-152.7				millivolts			11/28/23 12:24	1
Oxygen, Dissolved	0.72				mg/L			11/28/23 12:24	1
Specific Conductance	768.24				umhos/cm			11/28/23 12:24	1
Turbidity	10.0				NTU			11/28/23 12:24	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-002

Date Collected: 11/29/23 10:07
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-18

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0024**	**J**	0.0050	0.0020	mg/L		12/11/23 09:08	12/12/23 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/20/23 00:09	1
Arsenic	**0.0061**		0.0010	0.00023	mg/L		12/08/23 09:17	12/20/23 00:09	1
Barium	**0.20**		0.0025	0.00073	mg/L		12/08/23 09:17	12/20/23 00:09	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/20/23 00:09	1
Boron	**0.31**		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 14:09	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/20/23 00:09	1
Calcium	**85**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/20/23 00:09	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/20/23 00:09	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/08/23 09:17	12/20/23 00:09	1
Lead	**0.00030**	**J**	0.00050	0.00019	mg/L		12/08/23 09:17	12/20/23 00:09	1
Magnesium	**36**		0.20	0.049	mg/L		12/08/23 09:17	12/20/23 00:09	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:17	12/20/23 00:09	1
Potassium	**2.6**		0.50	0.11	mg/L		12/08/23 09:17	12/20/23 00:09	1
Selenium	**0.0014**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/20/23 00:09	1
Sodium	**85**		0.20	0.077	mg/L		12/08/23 09:17	12/20/23 00:09	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/20/23 00:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**54**		2.0	0.23	mg/L			12/01/23 15:29	2
Sulfate (EPA 300.0)	**24**		1.0	0.21	mg/L			12/01/23 15:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**440**		5.0	3.7	mg/L			12/08/23 12:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			12/08/23 12:52	1
Total Dissolved Solids (SM 2540C)	**620**		10	4.3	mg/L			12/05/23 20:01	1
Fluoride (SM 4500 F C)	**0.59**		0.10	0.056	mg/L			12/07/23 15:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**19.59**				ft			11/29/23 10:07	1
Field pH	**8.00**				SU			11/29/23 10:07	1
Field Temperature	**12.57**				Degrees C			11/29/23 10:07	1
Oxidation Reduction Potential	**-117.6**				millivolts			11/29/23 10:07	1
Oxygen, Dissolved	**0.69**				mg/L			11/29/23 10:07	1
Specific Conductance	**940.82**				umhos/cm			11/29/23 10:07	1
Turbidity	**2.31**				NTU			11/29/23 10:07	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-003R

Date Collected: 11/29/23 08:28
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-19

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0049	J	0.0050	0.0020	mg/L		12/11/23 09:08	12/12/23 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/20/23 00:13	1
Arsenic	0.014		0.0010	0.00023	mg/L		12/08/23 09:17	12/20/23 00:13	1
Barium	0.32		0.0025	0.00073	mg/L		12/08/23 09:17	12/20/23 00:13	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/20/23 00:13	1
Boron	24		1.0	0.25	mg/L		12/08/23 09:17	12/22/23 14:25	20
Cadmium	0.0011		0.00050	0.00017	mg/L		12/08/23 09:17	12/20/23 00:13	1
Calcium	140	B	0.20	0.044	mg/L		12/08/23 09:17	12/20/23 00:13	1
Chromium	0.0035	J	0.0050	0.0011	mg/L		12/08/23 09:17	12/20/23 00:13	1
Cobalt	0.0021		0.0010	0.00040	mg/L		12/08/23 09:17	12/20/23 00:13	1
Lead	0.0032		0.00050	0.00019	mg/L		12/08/23 09:17	12/20/23 00:13	1
Magnesium	57		0.20	0.049	mg/L		12/08/23 09:17	12/20/23 00:13	1
Molybdenum	0.28		0.0050	0.0025	mg/L		12/08/23 09:17	12/20/23 00:13	1
Potassium	3.3		0.50	0.11	mg/L		12/08/23 09:17	12/20/23 00:13	1
Selenium	0.0013	J B	0.0025	0.00098	mg/L		12/08/23 09:17	12/20/23 00:13	1
Sodium	90		0.20	0.077	mg/L		12/08/23 09:17	12/20/23 00:13	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/20/23 00:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	26		1.0	0.12	mg/L			12/01/23 15:44	1
Sulfate (EPA 300.0)	470		20	4.1	mg/L			12/01/23 16:00	20
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	320		5.0	3.7	mg/L			12/08/23 13:02	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			12/08/23 13:02	1
Total Dissolved Solids (SM 2540C)	1200		10	4.3	mg/L			12/05/23 20:08	1
Fluoride (SM 4500 F C)	0.43		0.10	0.056	mg/L			12/07/23 15:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	9.31				ft			11/29/23 08:28	1
Field pH	7.55				SU			11/29/23 08:28	1
Field Temperature	11.01				Degrees C			11/29/23 08:28	1
Oxidation Reduction Potential	-130.3				millivolts			11/29/23 08:28	1
Oxygen, Dissolved	0.39				mg/L			11/29/23 08:28	1
Specific Conductance	1392.3				umhos/cm			11/29/23 08:28	1
Turbidity	149.00				NTU			11/29/23 08:28	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-008R

Date Collected: 11/29/23 08:57
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-20

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.41**		0.0050	0.0020	mg/L		12/11/23 09:08	12/12/23 17:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/20/23 00:23	1
Arsenic	**0.025**		0.0010	0.00023	mg/L		12/08/23 09:17	12/20/23 00:23	1
Barium	**0.049**		0.0025	0.00073	mg/L		12/08/23 09:17	12/20/23 00:23	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/20/23 00:23	1
Boron	**37**		1.0	0.25	mg/L		12/08/23 09:17	12/22/23 14:29	20
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/20/23 00:23	1
Calcium	**280**	**B**	0.20	0.044	mg/L		12/08/23 09:17	12/20/23 00:23	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/20/23 00:23	1
Cobalt	**0.00047**	**J**	0.0010	0.00040	mg/L		12/08/23 09:17	12/20/23 00:23	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/08/23 09:17	12/20/23 00:23	1
Magnesium	**34**		0.20	0.049	mg/L		12/08/23 09:17	12/20/23 00:23	1
Molybdenum	**0.30**		0.0050	0.0025	mg/L		12/08/23 09:17	12/20/23 00:23	1
Potassium	**20**		0.50	0.11	mg/L		12/08/23 09:17	12/20/23 00:23	1
Selenium	**0.0013**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:17	12/20/23 00:23	1
Sodium	**40**		0.20	0.077	mg/L		12/08/23 09:17	12/20/23 00:23	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/20/23 00:23	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**7.2**		1.0	0.12	mg/L			12/01/23 16:47	1
Sulfate (EPA 300.0)	**830**		50	10	mg/L			12/01/23 17:02	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**110**		5.0	3.7	mg/L			12/08/23 13:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			12/08/23 13:11	1
Total Dissolved Solids (SM 2540C)	**1500**		10	4.3	mg/L			12/05/23 20:14	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			12/07/23 15:35	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**15.07**				ft			11/29/23 08:57	1
Field pH	**8.10**				SU			11/29/23 08:57	1
Field Temperature	**11.42**				Degrees C			11/29/23 08:57	1
Oxidation Reduction Potential	**-137.8**				millivolts			11/29/23 08:57	1
Oxygen, Dissolved	**0.20**				mg/L			11/29/23 08:57	1
Specific Conductance	**1519.3**				umhos/cm			11/29/23 08:57	1
Turbidity	**1.18**				NTU			11/29/23 08:57	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-040

Date Collected: 11/29/23 10:57
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-23

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.82**		0.0050	0.0020	mg/L		12/08/23 09:53	12/11/23 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:20	12/20/23 01:04	1
Arsenic	**0.023**		0.0010	0.00023	mg/L		12/08/23 09:20	12/20/23 01:04	1
Barium	**0.033**		0.0025	0.00073	mg/L		12/08/23 09:20	12/20/23 01:04	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:20	12/20/23 01:04	1
Boron	**25**	**B**	1.0	0.25	mg/L		12/08/23 09:20	12/22/23 15:42	20
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:20	12/20/23 01:04	1
Calcium	**580**	**B**	0.20	0.044	mg/L		12/08/23 09:20	12/20/23 01:04	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:20	12/20/23 01:04	1
Cobalt	**0.0085**		0.0010	0.00040	mg/L		12/08/23 09:20	12/20/23 01:04	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/08/23 09:20	12/20/23 01:04	1
Magnesium	**180**		0.20	0.049	mg/L		12/08/23 09:20	12/20/23 01:04	1
Molybdenum	**0.048**		0.0050	0.0025	mg/L		12/08/23 09:20	12/20/23 01:04	1
Potassium	**44**		0.50	0.11	mg/L		12/08/23 09:20	12/20/23 01:04	1
Selenium	**0.0013**	**J B**	0.0025	0.00098	mg/L		12/08/23 09:20	12/20/23 01:04	1
Sodium	**42**	**B**	0.20	0.077	mg/L		12/08/23 09:20	12/20/23 01:04	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:20	12/20/23 01:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**8.4**		5.0	0.58	mg/L			12/01/23 15:09	5
Sulfate (EPA 300.0)	**3200**		200	41	mg/L			12/01/23 15:24	200
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			12/08/23 13:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			12/08/23 13:39	1
Total Dissolved Solids (SM 2540C)	**5300**	**H**	25	11	mg/L			12/07/23 02:56	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			12/07/23 16:00	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**14.96**				ft			11/29/23 10:57	1
Field pH	**6.58**				SU			11/29/23 10:57	1
Field Temperature	**11.89**				Degrees C			11/29/23 10:57	1
Oxidation Reduction Potential	**-91.7**				millivolts			11/29/23 10:57	1
Oxygen, Dissolved	**0.18**				mg/L			11/29/23 10:57	1
Specific Conductance	**4328.5**				umhos/cm			11/29/23 10:57	1
Turbidity	**6.20**				NTU			11/29/23 10:57	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-002_FD

Date Collected: 11/29/23 10:12
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-29

Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0040	J	0.0050	0.0020	mg/L		12/08/23 09:53	12/11/23 19:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:20	12/20/23 01:25	1
Arsenic	0.0091		0.0010	0.00023	mg/L		12/08/23 09:20	12/20/23 01:25	1
Barium	0.20		0.0025	0.00073	mg/L		12/08/23 09:20	12/20/23 01:25	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:20	12/20/23 01:25	1
Boron	0.32	B	0.050	0.013	mg/L		12/08/23 09:20	12/29/23 14:15	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:20	12/20/23 01:25	1
Calcium	84	B	0.20	0.044	mg/L		12/08/23 09:20	12/20/23 01:25	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:20	12/20/23 01:25	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/08/23 09:20	12/20/23 01:25	1
Lead	0.00027	J	0.00050	0.00019	mg/L		12/08/23 09:20	12/20/23 01:25	1
Magnesium	35		0.20	0.049	mg/L		12/08/23 09:20	12/20/23 01:25	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:20	12/20/23 01:25	1
Potassium	2.8		0.50	0.11	mg/L		12/08/23 09:20	12/20/23 01:25	1
Selenium	0.0012	J B	0.0025	0.00098	mg/L		12/08/23 09:20	12/20/23 01:25	1
Sodium	82	B	0.20	0.077	mg/L		12/08/23 09:20	12/20/23 01:25	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:20	12/20/23 01:25	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/12/23 10:25	12/13/23 08:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	46		2.0	0.23	mg/L			12/01/23 17:56	2
Sulfate (EPA 300.0)	21		2.0	0.41	mg/L			12/01/23 17:56	2
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	440		5.0	3.7	mg/L			12/08/23 14:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			12/08/23 14:28	1
Total Dissolved Solids (SM 2540C)	580		10	4.3	mg/L			12/05/23 20:37	1
Fluoride (SM 4500 F C)	0.57		0.10	0.056	mg/L			12/07/23 16:42	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	19.59				ft			11/29/23 10:12	1
Field pH	8.00				SU			11/29/23 10:12	1
Field Temperature	12.57				Degrees C			11/29/23 10:12	1
Oxidation Reduction Potential	-117.6				millivolts			11/29/23 10:12	1
Oxygen, Dissolved	0.69				mg/L			11/29/23 10:12	1
Specific Conductance	940.82				umhos/cm			11/29/23 10:12	1
Turbidity	2.31				NTU			11/29/23 10:12	1

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Metals

Prep Batch: 745489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-4	VER-004	Total Recoverable	Water	200.7	
500-243025-6	VER-017	Total Recoverable	Water	200.7	
500-243025-7	VER-020	Total Recoverable	Water	200.7	
500-243025-8	VER-021	Total Recoverable	Water	200.7	
MB 500-745489/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-745489/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-243025-4 MS	VER-004_MS	Total Recoverable	Water	200.7	
500-243025-4 MSD	VER-004_MSD	Total Recoverable	Water	200.7	
500-243025-4 DU	VER-004	Total Recoverable	Water	200.7	

Analysis Batch: 745797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-4	VER-004	Total Recoverable	Water	200.7 Rev 4.4	745489
500-243025-7	VER-020	Total Recoverable	Water	200.7 Rev 4.4	745489
500-243025-8	VER-021	Total Recoverable	Water	200.7 Rev 4.4	745489
MB 500-745489/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	745489
LCS 500-745489/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	745489
500-243025-4 MS	VER-004_MS	Total Recoverable	Water	200.7 Rev 4.4	745489
500-243025-4 MSD	VER-004_MSD	Total Recoverable	Water	200.7 Rev 4.4	745489
500-243025-4 DU	VER-004	Total Recoverable	Water	200.7 Rev 4.4	745489

Prep Batch: 745805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total Recoverable	Water	3005A	
500-243025-2	VER-041	Total Recoverable	Water	3005A	
500-243025-3	VER-101&	Total Recoverable	Water	3005A	
500-243025-4	VER-004	Total Recoverable	Water	3005A	
500-243025-6	VER-017	Total Recoverable	Water	3005A	
500-243025-7	VER-020	Total Recoverable	Water	3005A	
500-243025-8	VER-021	Total Recoverable	Water	3005A	
500-243025-10	VER-034	Total Recoverable	Water	3005A	
500-243025-11	VER-036	Total Recoverable	Water	3005A	
500-243025-12	VER-037	Total Recoverable	Water	3005A	
500-243025-13	VER-038	Total Recoverable	Water	3005A	
500-243025-14	VER-042	Total Recoverable	Water	3005A	
500-243025-15	VER-043	Total Recoverable	Water	3005A	
500-243025-16	VER-103&	Total Recoverable	Water	3005A	
500-243025-17	VER-038_FD	Total Recoverable	Water	3005A	
500-243025-18	VER-002	Total Recoverable	Water	3005A	
500-243025-19	VER-003R	Total Recoverable	Water	3005A	
500-243025-20	VER-008R	Total Recoverable	Water	3005A	
MB 500-745805/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-745805/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-243025-4 MS	VER-004_MS	Total Recoverable	Water	3005A	
500-243025-4 MSD	VER-004_MSD	Total Recoverable	Water	3005A	
500-243025-4 DU	VER-004	Total Recoverable	Water	3005A	

Prep Batch: 745806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-23	VER-040	Total Recoverable	Water	3005A	
500-243025-29	VER-002_FD	Total Recoverable	Water	3005A	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Metals (Continued)

Prep Batch: 745806 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-745806/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-745806/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 745817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-23	VER-040	Total Recoverable	Water	200.7	
500-243025-29	VER-002_FD	Total Recoverable	Water	200.7	
MB 500-745817/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-745817/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 745897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total Recoverable	Water	200.7	
500-243025-2	VER-041	Total Recoverable	Water	200.7	
MB 500-745897/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-745897/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 745898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-3	VER-101&	Total Recoverable	Water	200.7	
500-243025-10	VER-034	Total Recoverable	Water	200.7	
500-243025-11	VER-036	Total Recoverable	Water	200.7	
500-243025-12	VER-037	Total Recoverable	Water	200.7	
500-243025-13	VER-038	Total Recoverable	Water	200.7	
500-243025-14	VER-042	Total Recoverable	Water	200.7	
500-243025-15	VER-043	Total Recoverable	Water	200.7	
500-243025-16	VER-103&	Total Recoverable	Water	200.7	
MB 500-745898/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-745898/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 746070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total/NA	Water	7470A	
500-243025-2	VER-041	Total/NA	Water	7470A	
500-243025-3	VER-101&	Total/NA	Water	7470A	
500-243025-4	VER-004	Total/NA	Water	7470A	
MB 500-746070/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-746070/31-A	Lab Control Sample	Total/NA	Water	7470A	
500-243025-4 MS	VER-004_MS	Total/NA	Water	7470A	
500-243025-4 MSD	VER-004_MSD	Total/NA	Water	7470A	
500-243025-4 DU	VER-004	Total/NA	Water	7470A	

Prep Batch: 746073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-17	VER-038_FD	Total Recoverable	Water	200.7	
500-243025-18	VER-002	Total Recoverable	Water	200.7	
500-243025-19	VER-003R	Total Recoverable	Water	200.7	
500-243025-20	VER-008R	Total Recoverable	Water	200.7	
MB 500-746073/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-746073/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Metals

Analysis Batch: 746074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-6	VER-017	Total Recoverable	Water	200.7 Rev 4.4	745489

Prep Batch: 746076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-6	VER-017	Total/NA	Water	7470A	
500-243025-7	VER-020	Total/NA	Water	7470A	
500-243025-8	VER-021	Total/NA	Water	7470A	
500-243025-10	VER-034	Total/NA	Water	7470A	
500-243025-11	VER-036	Total/NA	Water	7470A	
500-243025-12	VER-037	Total/NA	Water	7470A	
500-243025-13	VER-038	Total/NA	Water	7470A	
500-243025-14	VER-042	Total/NA	Water	7470A	
500-243025-15	VER-043	Total/NA	Water	7470A	
500-243025-16	VER-103&	Total/NA	Water	7470A	
500-243025-17	VER-038_FD	Total/NA	Water	7470A	
500-243025-18	VER-002	Total/NA	Water	7470A	
500-243025-19	VER-003R	Total/NA	Water	7470A	
500-243025-20	VER-008R	Total/NA	Water	7470A	
500-243025-23	VER-040	Total/NA	Water	7470A	
MB 500-746076/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-746076/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 746256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total Recoverable	Water	200.7 Rev 4.4	745897
500-243025-2	VER-041	Total Recoverable	Water	200.7 Rev 4.4	745897
500-243025-3	VER-101&	Total Recoverable	Water	200.7 Rev 4.4	745898
500-243025-10	VER-034	Total Recoverable	Water	200.7 Rev 4.4	745898
500-243025-11	VER-036	Total Recoverable	Water	200.7 Rev 4.4	745898
500-243025-12	VER-037	Total Recoverable	Water	200.7 Rev 4.4	745898
500-243025-13	VER-038	Total Recoverable	Water	200.7 Rev 4.4	745898
500-243025-14	VER-042	Total Recoverable	Water	200.7 Rev 4.4	745898
500-243025-15	VER-043	Total Recoverable	Water	200.7 Rev 4.4	745898
500-243025-16	VER-103&	Total Recoverable	Water	200.7 Rev 4.4	745898
500-243025-23	VER-040	Total Recoverable	Water	200.7 Rev 4.4	745817
500-243025-29	VER-002_FD	Total Recoverable	Water	200.7 Rev 4.4	745817
MB 500-745817/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	745817
MB 500-745897/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	745897
MB 500-745898/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	745898
LCS 500-745817/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	745817
LCS 500-745897/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	745897
LCS 500-745898/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	745898

Analysis Batch: 746278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total/NA	Water	7470A	746070
500-243025-2	VER-041	Total/NA	Water	7470A	746070
500-243025-3	VER-101&	Total/NA	Water	7470A	746070
500-243025-4	VER-004	Total/NA	Water	7470A	746070
500-243025-6	VER-017	Total/NA	Water	7470A	746076
500-243025-7	VER-020	Total/NA	Water	7470A	746076

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Metals (Continued)

Analysis Batch: 746278 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-8	VER-021	Total/NA	Water	7470A	746076
500-243025-10	VER-034	Total/NA	Water	7470A	746076
500-243025-11	VER-036	Total/NA	Water	7470A	746076
500-243025-12	VER-037	Total/NA	Water	7470A	746076
500-243025-13	VER-038	Total/NA	Water	7470A	746076
500-243025-14	VER-042	Total/NA	Water	7470A	746076
500-243025-15	VER-043	Total/NA	Water	7470A	746076
500-243025-16	VER-103&	Total/NA	Water	7470A	746076
500-243025-17	VER-038_FD	Total/NA	Water	7470A	746076
500-243025-18	VER-002	Total/NA	Water	7470A	746076
500-243025-19	VER-003R	Total/NA	Water	7470A	746076
500-243025-20	VER-008R	Total/NA	Water	7470A	746076
500-243025-23	VER-040	Total/NA	Water	7470A	746076
MB 500-746070/12-A	Method Blank	Total/NA	Water	7470A	746070
MB 500-746076/12-A	Method Blank	Total/NA	Water	7470A	746076
LCS 500-746070/31-A	Lab Control Sample	Total/NA	Water	7470A	746070
LCS 500-746076/13-A	Lab Control Sample	Total/NA	Water	7470A	746076
500-243025-4 MS	VER-004_MS	Total/NA	Water	7470A	746070
500-243025-4 MSD	VER-004_MSD	Total/NA	Water	7470A	746070
500-243025-4 DU	VER-004	Total/NA	Water	7470A	746070

Prep Batch: 746288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-29	VER-002_FD	Total/NA	Water	7470A	
MB 500-746288/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-746288/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-243025-29 MS	VER-002_FD	Total/NA	Water	7470A	
500-243025-29 MSD	VER-002_FD	Total/NA	Water	7470A	
500-243025-29 DU	VER-002_FD	Total/NA	Water	7470A	

Analysis Batch: 746479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-17	VER-038_FD	Total Recoverable	Water	200.7 Rev 4.4	746073
500-243025-18	VER-002	Total Recoverable	Water	200.7 Rev 4.4	746073
500-243025-19	VER-003R	Total Recoverable	Water	200.7 Rev 4.4	746073
500-243025-20	VER-008R	Total Recoverable	Water	200.7 Rev 4.4	746073
MB 500-746073/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	746073
LCS 500-746073/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	746073

Analysis Batch: 746499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-29	VER-002_FD	Total/NA	Water	7470A	746288
MB 500-746288/12-A	Method Blank	Total/NA	Water	7470A	746288
LCS 500-746288/13-A	Lab Control Sample	Total/NA	Water	7470A	746288
500-243025-29 MS	VER-002_FD	Total/NA	Water	7470A	746288
500-243025-29 MSD	VER-002_FD	Total/NA	Water	7470A	746288
500-243025-29 DU	VER-002_FD	Total/NA	Water	7470A	746288

Analysis Batch: 747510

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total Recoverable	Water	6020B	745805

Metals (Continued)

Analysis Batch: 747510 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-2	VER-041	Total Recoverable	Water	6020B	745805
500-243025-3	VER-101&	Total Recoverable	Water	6020B	745805
500-243025-4	VER-004	Total Recoverable	Water	6020B	745805
500-243025-6	VER-017	Total Recoverable	Water	6020B	745805
500-243025-7	VER-020	Total Recoverable	Water	6020B	745805
500-243025-8	VER-021	Total Recoverable	Water	6020B	745805
500-243025-10	VER-034	Total Recoverable	Water	6020B	745805
500-243025-11	VER-036	Total Recoverable	Water	6020B	745805
500-243025-12	VER-037	Total Recoverable	Water	6020B	745805
500-243025-13	VER-038	Total Recoverable	Water	6020B	745805
500-243025-14	VER-042	Total Recoverable	Water	6020B	745805
500-243025-15	VER-043	Total Recoverable	Water	6020B	745805
500-243025-16	VER-103&	Total Recoverable	Water	6020B	745805
500-243025-17	VER-038_FD	Total Recoverable	Water	6020B	745805
500-243025-18	VER-002	Total Recoverable	Water	6020B	745805
500-243025-19	VER-003R	Total Recoverable	Water	6020B	745805
500-243025-20	VER-008R	Total Recoverable	Water	6020B	745805
500-243025-23	VER-040	Total Recoverable	Water	6020B	745806
500-243025-29	VER-002_FD	Total Recoverable	Water	6020B	745806
MB 500-745805/1-A	Method Blank	Total Recoverable	Water	6020B	745805
MB 500-745806/1-A	Method Blank	Total Recoverable	Water	6020B	745806
LCS 500-745805/2-A	Lab Control Sample	Total Recoverable	Water	6020B	745805
LCS 500-745806/2-A	Lab Control Sample	Total Recoverable	Water	6020B	745806
500-243025-4 MS	VER-004_MS	Total Recoverable	Water	6020B	745805
500-243025-4 MSD	VER-004_MSD	Total Recoverable	Water	6020B	745805
500-243025-4 DU	VER-004	Total Recoverable	Water	6020B	745805

Analysis Batch: 748042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total Recoverable	Water	6020B	745805
500-243025-2	VER-041	Total Recoverable	Water	6020B	745805
500-243025-3	VER-101&	Total Recoverable	Water	6020B	745805
500-243025-4	VER-004	Total Recoverable	Water	6020B	745805
500-243025-6	VER-017	Total Recoverable	Water	6020B	745805
500-243025-7	VER-020	Total Recoverable	Water	6020B	745805
500-243025-8	VER-021	Total Recoverable	Water	6020B	745805
500-243025-10	VER-034	Total Recoverable	Water	6020B	745805
500-243025-11	VER-036	Total Recoverable	Water	6020B	745805
500-243025-12	VER-037	Total Recoverable	Water	6020B	745805
500-243025-13	VER-038	Total Recoverable	Water	6020B	745805
500-243025-14	VER-042	Total Recoverable	Water	6020B	745805
500-243025-15	VER-043	Total Recoverable	Water	6020B	745805
500-243025-16	VER-103&	Total Recoverable	Water	6020B	745805
500-243025-17	VER-038_FD	Total Recoverable	Water	6020B	745805
500-243025-18	VER-002	Total Recoverable	Water	6020B	745805
500-243025-19	VER-003R	Total Recoverable	Water	6020B	745805
500-243025-20	VER-008R	Total Recoverable	Water	6020B	745805
MB 500-745805/1-A	Method Blank	Total Recoverable	Water	6020B	745805
LCS 500-745805/2-A	Lab Control Sample	Total Recoverable	Water	6020B	745805
500-243025-4 MS	VER-004_MS	Total Recoverable	Water	6020B	745805
500-243025-4 MSD	VER-004_MSD	Total Recoverable	Water	6020B	745805

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Metals (Continued)

Analysis Batch: 748042 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-4 DU	VER-004	Total Recoverable	Water	6020B	745805

Analysis Batch: 748512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-23	VER-040	Total Recoverable	Water	6020B	745806
MB 500-745806/1-A	Method Blank	Total Recoverable	Water	6020B	745806
LCS 500-745806/2-A	Lab Control Sample	Total Recoverable	Water	6020B	745806

Analysis Batch: 748679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-29	VER-002_FD	Total Recoverable	Water	6020B	745806

General Chemistry

Analysis Batch: 743995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total/NA	Water	300.0	
500-243025-1	VER-005	Total/NA	Water	300.0	
500-243025-2	VER-041	Total/NA	Water	300.0	
500-243025-2	VER-041	Total/NA	Water	300.0	
500-243025-3	VER-101&	Total/NA	Water	300.0	
MB 500-743995/3	Method Blank	Total/NA	Water	300.0	
LCS 500-743995/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 744097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total/NA	Water	SM 2540C	
500-243025-2	VER-041	Total/NA	Water	SM 2540C	
500-243025-3	VER-101&	Total/NA	Water	SM 2540C	
MB 500-744097/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-744097/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 744266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-6	VER-017	Total/NA	Water	300.0	
500-243025-7	VER-020	Total/NA	Water	300.0	
500-243025-11	VER-036	Total/NA	Water	300.0	
500-243025-12	VER-037	Total/NA	Water	300.0	
500-243025-14	VER-042	Total/NA	Water	300.0	
500-243025-15	VER-043	Total/NA	Water	300.0	
500-243025-16	VER-103&	Total/NA	Water	300.0	
MB 500-744266/3	Method Blank	Total/NA	Water	300.0	
LCS 500-744266/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 744338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-4	VER-004	Total/NA	Water	SM 2540C	
500-243025-6	VER-017	Total/NA	Water	SM 2540C	
500-243025-7	VER-020	Total/NA	Water	SM 2540C	
500-243025-8	VER-021	Total/NA	Water	SM 2540C	
MB 500-744338/1	Method Blank	Total/NA	Water	SM 2540C	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

General Chemistry (Continued)

Analysis Batch: 744338 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-744338/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-243025-4 MS	VER-004_MS	Total/NA	Water	SM 2540C	
500-243025-4 MSD	VER-004_MSD	Total/NA	Water	SM 2540C	

Analysis Batch: 744339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-10	VER-034	Total/NA	Water	SM 2540C	
500-243025-11	VER-036	Total/NA	Water	SM 2540C	
500-243025-12	VER-037	Total/NA	Water	SM 2540C	
500-243025-13	VER-038	Total/NA	Water	SM 2540C	
500-243025-14	VER-042	Total/NA	Water	SM 2540C	
500-243025-15	VER-043	Total/NA	Water	SM 2540C	
500-243025-16	VER-103&	Total/NA	Water	SM 2540C	
500-243025-17	VER-038_FD	Total/NA	Water	SM 2540C	
MB 500-744339/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-744339/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-243025-10 DU	VER-034	Total/NA	Water	SM 2540C	

Analysis Batch: 744494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-4	VER-004	Total/NA	Water	300.0	
500-243025-6	VER-017	Total/NA	Water	300.0	
MB 500-744494/3	Method Blank	Total/NA	Water	300.0	
LCS 500-744494/4	Lab Control Sample	Total/NA	Water	300.0	
500-243025-4 MS	VER-004_MS	Total/NA	Water	300.0	
500-243025-4 MSD	VER-004_MSD	Total/NA	Water	300.0	

Analysis Batch: 744621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-23	VER-040	Total/NA	Water	300.0	
500-243025-23	VER-040	Total/NA	Water	300.0	
500-243025-29	VER-002_FD	Total/NA	Water	300.0	
MB 500-744621/3	Method Blank	Total/NA	Water	300.0	
LCS 500-744621/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 744624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-7	VER-020	Total/NA	Water	300.0	
500-243025-8	VER-021	Total/NA	Water	300.0	
500-243025-10	VER-034	Total/NA	Water	300.0	
500-243025-11	VER-036	Total/NA	Water	300.0	
500-243025-12	VER-037	Total/NA	Water	300.0	
500-243025-13	VER-038	Total/NA	Water	300.0	
500-243025-15	VER-043	Total/NA	Water	300.0	
500-243025-16	VER-103&	Total/NA	Water	300.0	
500-243025-17	VER-038_FD	Total/NA	Water	300.0	
500-243025-18	VER-002	Total/NA	Water	300.0	
500-243025-18	VER-002	Total/NA	Water	300.0	
500-243025-19	VER-003R	Total/NA	Water	300.0	
500-243025-19	VER-003R	Total/NA	Water	300.0	
500-243025-20	VER-008R	Total/NA	Water	300.0	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

General Chemistry (Continued)

Analysis Batch: 744624 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-20	VER-008R	Total/NA	Water	300.0	
MB 500-744624/9	Method Blank	Total/NA	Water	300.0	
LCS 500-744624/10	Lab Control Sample	Total/NA	Water	300.0	
LCSD 500-744624/11	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 744626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total/NA	Water	SM 2320B	
500-243025-2	VER-041	Total/NA	Water	SM 2320B	
500-243025-3	VER-101&	Total/NA	Water	SM 2320B	
500-243025-4	VER-004	Total/NA	Water	SM 2320B	
500-243025-6	VER-017	Total/NA	Water	SM 2320B	
500-243025-7	VER-020	Total/NA	Water	SM 2320B	
500-243025-8	VER-021	Total/NA	Water	SM 2320B	
500-243025-10	VER-034	Total/NA	Water	SM 2320B	
500-243025-11	VER-036	Total/NA	Water	SM 2320B	
500-243025-12	VER-037	Total/NA	Water	SM 2320B	
500-243025-13	VER-038	Total/NA	Water	SM 2320B	
500-243025-14	VER-042	Total/NA	Water	SM 2320B	
500-243025-15	VER-043	Total/NA	Water	SM 2320B	
500-243025-16	VER-103&	Total/NA	Water	SM 2320B	
500-243025-17	VER-038_FD	Total/NA	Water	SM 2320B	
MB 500-744626/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-744626/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-744626/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-744626/4	Lab Control Sample	Total/NA	Water	SM 2320B	
500-243025-4 DU	VER-004	Total/NA	Water	SM 2320B	

Analysis Batch: 745288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-18	VER-002	Total/NA	Water	SM 2540C	
500-243025-19	VER-003R	Total/NA	Water	SM 2540C	
500-243025-20	VER-008R	Total/NA	Water	SM 2540C	
500-243025-29	VER-002_FD	Total/NA	Water	SM 2540C	
MB 500-745288/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-745288/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-243025-18 MS	VER-002	Total/NA	Water	SM 2540C	
500-243025-18 DU	VER-002	Total/NA	Water	SM 2540C	
500-243025-19 DU	VER-003R	Total/NA	Water	SM 2540C	

Analysis Batch: 745507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-23	VER-040	Total/NA	Water	SM 2540C	
MB 500-745507/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-745507/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 745605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total/NA	Water	SM 4500 F C	
500-243025-2	VER-041	Total/NA	Water	SM 4500 F C	
500-243025-3	VER-101&	Total/NA	Water	SM 4500 F C	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

General Chemistry (Continued)

Analysis Batch: 745605 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-4	VER-004	Total/NA	Water	SM 4500 F C	
MB 500-745605/31	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-745605/59	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-745605/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-745605/60	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-243025-4 MS	VER-004_MS	Total/NA	Water	SM 4500 F C	
500-243025-4 MSD	VER-004_MSD	Total/NA	Water	SM 4500 F C	

Analysis Batch: 745789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-6	VER-017	Total/NA	Water	SM 4500 F C	
500-243025-7	VER-020	Total/NA	Water	SM 4500 F C	
500-243025-8	VER-021	Total/NA	Water	SM 4500 F C	
500-243025-10	VER-034	Total/NA	Water	SM 4500 F C	
500-243025-11	VER-036	Total/NA	Water	SM 4500 F C	
500-243025-12	VER-037	Total/NA	Water	SM 4500 F C	
500-243025-13	VER-038	Total/NA	Water	SM 4500 F C	
500-243025-14	VER-042	Total/NA	Water	SM 4500 F C	
500-243025-15	VER-043	Total/NA	Water	SM 4500 F C	
500-243025-16	VER-103&	Total/NA	Water	SM 4500 F C	
500-243025-17	VER-038_FD	Total/NA	Water	SM 4500 F C	
500-243025-18	VER-002	Total/NA	Water	SM 4500 F C	
500-243025-19	VER-003R	Total/NA	Water	SM 4500 F C	
500-243025-20	VER-008R	Total/NA	Water	SM 4500 F C	
500-243025-23	VER-040	Total/NA	Water	SM 4500 F C	
500-243025-29	VER-002_FD	Total/NA	Water	SM 4500 F C	
MB 500-745789/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-745789/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-745789/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-745789/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 746041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-18	VER-002	Total/NA	Water	SM 2320B	
500-243025-19	VER-003R	Total/NA	Water	SM 2320B	
500-243025-20	VER-008R	Total/NA	Water	SM 2320B	
500-243025-23	VER-040	Total/NA	Water	SM 2320B	
500-243025-29	VER-002_FD	Total/NA	Water	SM 2320B	
MB 500-746041/2	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-746041/3	Lab Control Sample	Total/NA	Water	SM 2320B	

Field Service / Mobile Lab

Analysis Batch: 747821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total/NA	Water	Field Sampling	
500-243025-2	VER-041	Total/NA	Water	Field Sampling	
500-243025-3	VER-101&	Total/NA	Water	Field Sampling	
500-243025-4	VER-004	Total/NA	Water	Field Sampling	
500-243025-6	VER-017	Total/NA	Water	Field Sampling	
500-243025-7	VER-020	Total/NA	Water	Field Sampling	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Field Service / Mobile Lab (Continued)

Analysis Batch: 747821 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-8	VER-021	Total/NA	Water	Field Sampling	
500-243025-10	VER-034	Total/NA	Water	Field Sampling	
500-243025-11	VER-036	Total/NA	Water	Field Sampling	
500-243025-12	VER-037	Total/NA	Water	Field Sampling	
500-243025-13	VER-038	Total/NA	Water	Field Sampling	
500-243025-14	VER-042	Total/NA	Water	Field Sampling	
500-243025-15	VER-043	Total/NA	Water	Field Sampling	
500-243025-16	VER-103&	Total/NA	Water	Field Sampling	
500-243025-17	VER-038_FD	Total/NA	Water	Field Sampling	
500-243025-18	VER-002	Total/NA	Water	Field Sampling	
500-243025-19	VER-003R	Total/NA	Water	Field Sampling	
500-243025-20	VER-008R	Total/NA	Water	Field Sampling	
500-243025-23	VER-040	Total/NA	Water	Field Sampling	
500-243025-29	VER-002_FD	Total/NA	Water	Field Sampling	

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-745489/1-A
Matrix: Water
Analysis Batch: 745797

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		12/06/23 19:08	12/07/23 12:41	1

Lab Sample ID: LCS 500-745489/2-A
Matrix: Water
Analysis Batch: 745797

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 745489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.249		mg/L		100	85 - 115

Lab Sample ID: 500-243025-4 MS
Matrix: Water
Analysis Batch: 745797

Client Sample ID: VER-004_MS
Prep Type: Total Recoverable
Prep Batch: 745489

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.047		0.250	0.296		mg/L		100	70 - 130

Lab Sample ID: 500-243025-4 MSD
Matrix: Water
Analysis Batch: 745797

Client Sample ID: VER-004_MSD
Prep Type: Total Recoverable
Prep Batch: 745489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.047		0.250	0.297		mg/L		100	70 - 130	0	20

Lab Sample ID: 500-243025-4 DU
Matrix: Water
Analysis Batch: 745797

Client Sample ID: VER-004
Prep Type: Total Recoverable
Prep Batch: 745489

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.047		0.0448		mg/L		4	20

Lab Sample ID: MB 500-745817/1-A
Matrix: Water
Analysis Batch: 746256

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		12/08/23 09:53	12/11/23 18:56	1

Lab Sample ID: LCS 500-745817/2-A
Matrix: Water
Analysis Batch: 746256

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 745817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.267		mg/L		107	85 - 115

Lab Sample ID: MB 500-745897/1-A
Matrix: Water
Analysis Batch: 746256

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		12/08/23 17:29	12/11/23 16:14	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCS 500-745897/2-A
Matrix: Water
Analysis Batch: 746256

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 745897

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.261		mg/L		104	85 - 115

Lab Sample ID: MB 500-745898/1-A
Matrix: Water
Analysis Batch: 746256

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00237	J	0.0050	0.0020	mg/L		12/08/23 17:35	12/11/23 17:30	1

Lab Sample ID: LCS 500-745898/2-A
Matrix: Water
Analysis Batch: 746256

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 745898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.258		mg/L		103	85 - 115

Lab Sample ID: MB 500-746073/1-A
Matrix: Water
Analysis Batch: 746479

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 746073

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		12/11/23 09:08	12/12/23 15:32	1

Lab Sample ID: LCS 500-746073/2-A
Matrix: Water
Analysis Batch: 746479

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 746073

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.264		mg/L		106	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-745805/1-A
Matrix: Water
Analysis Batch: 747510

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:17	12/19/23 22:39	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		12/08/23 09:17	12/19/23 22:39	1
Barium	<0.0025		0.0025	0.00073	mg/L		12/08/23 09:17	12/19/23 22:39	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:17	12/19/23 22:39	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:17	12/19/23 22:39	1
Calcium	0.313		0.20	0.044	mg/L		12/08/23 09:17	12/19/23 22:39	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:17	12/19/23 22:39	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/08/23 09:17	12/19/23 22:39	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/08/23 09:17	12/19/23 22:39	1
Magnesium	<0.20		0.20	0.049	mg/L		12/08/23 09:17	12/19/23 22:39	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:17	12/19/23 22:39	1
Potassium	<0.50		0.50	0.11	mg/L		12/08/23 09:17	12/19/23 22:39	1
Selenium	0.00146	J	0.0025	0.00098	mg/L		12/08/23 09:17	12/19/23 22:39	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

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

Lab Sample ID: MB 500-745805/1-A
Matrix: Water
Analysis Batch: 747510

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	<0.20		0.20	0.077	mg/L		12/08/23 09:17	12/19/23 22:39	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:17	12/19/23 22:39	1

Lab Sample ID: MB 500-745805/1-A
Matrix: Water
Analysis Batch: 748042

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050	0.013	mg/L		12/08/23 09:17	12/22/23 12:31	1

Lab Sample ID: LCS 500-745805/2-A
Matrix: Water
Analysis Batch: 747510

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 745805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.495		mg/L		99	80 - 120
Arsenic	0.100	0.0999		mg/L		100	80 - 120
Barium	0.500	0.513		mg/L		103	80 - 120
Beryllium	0.0500	0.0420		mg/L		84	80 - 120
Cadmium	0.0500	0.0464		mg/L		93	80 - 120
Calcium	10.0	8.27		mg/L		83	80 - 120
Chromium	0.200	0.205		mg/L		103	80 - 120
Cobalt	0.500	0.522		mg/L		104	80 - 120
Lead	0.100	0.0979		mg/L		98	80 - 120
Magnesium	10.0	9.56		mg/L		96	80 - 120
Molybdenum	1.00	0.944		mg/L		94	80 - 120
Potassium	10.0	9.55		mg/L		95	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Sodium	10.0	9.48		mg/L		95	80 - 120
Thallium	0.100	0.0985		mg/L		98	80 - 120

Lab Sample ID: LCS 500-745805/2-A
Matrix: Water
Analysis Batch: 748042

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 745805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.980		mg/L		98	80 - 120

Lab Sample ID: 500-243025-4 MS
Matrix: Water
Analysis Batch: 747510

Client Sample ID: VER-004_MS
Prep Type: Total Recoverable
Prep Batch: 745805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.487		mg/L		97	75 - 125
Arsenic	0.0082		0.100	0.106		mg/L		98	75 - 125
Barium	0.21		0.500	0.699		mg/L		98	75 - 125
Beryllium	<0.0010		0.0500	0.0466		mg/L		93	75 - 125
Cadmium	<0.00050		0.0500	0.0452		mg/L		90	75 - 125
Calcium	55	B	10.0	60.5	4	mg/L		51	75 - 125
Chromium	<0.0050		0.200	0.196		mg/L		98	75 - 125

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

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

Lab Sample ID: 500-243025-4 MS — **Client Sample ID: VER-004_MS**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 747510 — **Prep Batch: 745805**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cobalt	0.00087	J	0.500	0.504		mg/L		101	75 - 125
Lead	0.00024	J	0.100	0.100		mg/L		100	75 - 125
Magnesium	23		10.0	31.6		mg/L		82	75 - 125
Molybdenum	0.040		1.00	0.981		mg/L		94	75 - 125
Potassium	6.2		10.0	15.3		mg/L		91	75 - 125
Selenium	0.0013	J B	0.100	0.101		mg/L		100	75 - 125
Sodium	23		10.0	31.3		mg/L		82	75 - 125
Thallium	<0.0020		0.100	0.101		mg/L		101	75 - 125

Lab Sample ID: 500-243025-4 MS — **Client Sample ID: VER-004_MS**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 748042 — **Prep Batch: 745805**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	9.9		1.00	10.7	4	mg/L		73	75 - 125

Lab Sample ID: 500-243025-4 MSD — **Client Sample ID: VER-004_MSD**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 747510 — **Prep Batch: 745805**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.494		mg/L		99	75 - 125	1	20
Arsenic	0.0082		0.100	0.107		mg/L		99	75 - 125	0	20
Barium	0.21		0.500	0.706		mg/L		100	75 - 125	1	20
Beryllium	<0.0010		0.0500	0.0429		mg/L		86	75 - 125	8	20
Cadmium	<0.00050		0.0500	0.0466		mg/L		93	75 - 125	3	20
Calcium	55	B	10.0	61.4	4	mg/L		61	75 - 125	2	20
Chromium	<0.0050		0.200	0.201		mg/L		100	75 - 125	2	20
Cobalt	0.00087	J	0.500	0.511		mg/L		102	75 - 125	1	20
Lead	0.00024	J	0.100	0.0991		mg/L		99	75 - 125	1	20
Magnesium	23		10.0	32.1		mg/L		86	75 - 125	1	20
Molybdenum	0.040		1.00	1.00		mg/L		96	75 - 125	2	20
Potassium	6.2		10.0	15.4		mg/L		92	75 - 125	1	20
Selenium	0.0013	J B	0.100	0.101		mg/L		100	75 - 125	0	20
Sodium	23		10.0	31.9		mg/L		89	75 - 125	2	20
Thallium	<0.0020		0.100	0.0990		mg/L		99	75 - 125	2	20

Lab Sample ID: 500-243025-4 MSD — **Client Sample ID: VER-004_MSD**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 748042 — **Prep Batch: 745805**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	9.9		1.00	11.3	4	mg/L		140	75 - 125	6	20

Lab Sample ID: 500-243025-4 DU — **Client Sample ID: VER-004**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 747510 — **Prep Batch: 745805**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20

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

Lab Sample ID: 500-243025-4 DU
Matrix: Water
Analysis Batch: 747510

Client Sample ID: VER-004
Prep Type: Total Recoverable
Prep Batch: 745805

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.0082		0.00820		mg/L		0.2	20
Barium	0.21		0.204		mg/L		2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	55	B	56.3		mg/L		2	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Cobalt	0.00087	J	0.000868	J	mg/L		0.1	20
Lead	0.00024	J	0.000226	J	mg/L		6	20
Magnesium	23		23.8		mg/L		2	20
Molybdenum	0.040		0.0400		mg/L		0.4	20
Potassium	6.2		6.27		mg/L		1	20
Selenium	0.0013	J B	0.00113	J	mg/L		10	20
Sodium	23		23.6		mg/L		2	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-243025-4 DU
Matrix: Water
Analysis Batch: 748042

Client Sample ID: VER-004
Prep Type: Total Recoverable
Prep Batch: 745805

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	9.9		10.0		mg/L		0.8	20

Lab Sample ID: MB 500-745806/1-A
Matrix: Water
Analysis Batch: 747510

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/08/23 09:20	12/20/23 00:30	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		12/08/23 09:20	12/20/23 00:30	1
Barium	<0.0025		0.0025	0.00073	mg/L		12/08/23 09:20	12/20/23 00:30	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		12/08/23 09:20	12/20/23 00:30	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/08/23 09:20	12/20/23 00:30	1
Calcium	0.0607	J	0.20	0.044	mg/L		12/08/23 09:20	12/20/23 00:30	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/08/23 09:20	12/20/23 00:30	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/08/23 09:20	12/20/23 00:30	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/08/23 09:20	12/20/23 00:30	1
Magnesium	<0.20		0.20	0.049	mg/L		12/08/23 09:20	12/20/23 00:30	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/08/23 09:20	12/20/23 00:30	1
Potassium	<0.50		0.50	0.11	mg/L		12/08/23 09:20	12/20/23 00:30	1
Selenium	0.00138	J	0.0025	0.00098	mg/L		12/08/23 09:20	12/20/23 00:30	1
Sodium	0.103	J	0.20	0.077	mg/L		12/08/23 09:20	12/20/23 00:30	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/08/23 09:20	12/20/23 00:30	1

Lab Sample ID: MB 500-745806/1-A
Matrix: Water
Analysis Batch: 748512

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0168	J	0.050	0.013	mg/L		12/08/23 09:20	12/22/23 14:57	1

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

Lab Sample ID: LCS 500-745806/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 747510 — **Prep Batch: 745806**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.483		mg/L		97	80 - 120
Arsenic	0.100	0.0977		mg/L		98	80 - 120
Barium	0.500	0.517		mg/L		103	80 - 120
Beryllium	0.0500	0.0468		mg/L		94	80 - 120
Cadmium	0.0500	0.0467		mg/L		93	80 - 120
Calcium	10.0	8.37		mg/L		84	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.504		mg/L		101	80 - 120
Lead	0.100	0.0990		mg/L		99	80 - 120
Magnesium	10.0	10.2		mg/L		102	80 - 120
Molybdenum	1.00	0.926		mg/L		93	80 - 120
Potassium	10.0	9.89		mg/L		99	80 - 120
Selenium	0.100	0.0973		mg/L		97	80 - 120
Sodium	10.0	10.2		mg/L		102	80 - 120
Thallium	0.100	0.0987		mg/L		99	80 - 120

Lab Sample ID: LCS 500-745806/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 748512 — **Prep Batch: 745806**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.975		mg/L		98	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-746070/12-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746278 — **Prep Batch: 746070**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 08:38	1

Lab Sample ID: LCS 500-746070/31-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746278 — **Prep Batch: 746070**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00180		mg/L		90	80 - 120

Lab Sample ID: 500-243025-4 MS — **Client Sample ID: VER-004_MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746278 — **Prep Batch: 746070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000896		mg/L		90	75 - 125

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 500-243025-4 MSD — **Client Sample ID: VER-004_MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746278 — **Prep Batch: 746070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000928		mg/L		93	75 - 125	4	20

Lab Sample ID: 500-243025-4 DU — **Client Sample ID: VER-004**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746278 — **Prep Batch: 746070**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Lab Sample ID: MB 500-746076/12-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746278 — **Prep Batch: 746076**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/11/23 09:05	12/12/23 07:40	1

Lab Sample ID: LCS 500-746076/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746278 — **Prep Batch: 746076**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00179		mg/L		89	80 - 120

Lab Sample ID: MB 500-746288/12-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746499 — **Prep Batch: 746288**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/12/23 10:25	12/13/23 08:00	1

Lab Sample ID: LCS 500-746288/13-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746499 — **Prep Batch: 746288**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00183		mg/L		91	80 - 120

Lab Sample ID: 500-243025-29 MS — **Client Sample ID: VER-002_FD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746499 — **Prep Batch: 746288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000967		mg/L		97	75 - 125

Lab Sample ID: 500-243025-29 MSD — **Client Sample ID: VER-002_FD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 746499 — **Prep Batch: 746288**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.000963		mg/L		96	75 - 125	0	20

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-243025-29 DU
Matrix: Water
Analysis Batch: 746499

Client Sample ID: VER-002_FD
Prep Type: Total/NA
Prep Batch: 746288

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.00020		<0.00020		mg/L		NC	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-743995/3
Matrix: Water
Analysis Batch: 743995

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			11/28/23 10:11	1
Sulfate	<1.0		1.0	0.21	mg/L			11/28/23 10:11	1

Lab Sample ID: LCS 500-743995/5
Matrix: Water
Analysis Batch: 743995

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.1		mg/L		101	90 - 110
Sulfate	20.0	20.5		mg/L		103	90 - 110

Lab Sample ID: MB 500-744266/3
Matrix: Water
Analysis Batch: 744266

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			11/29/23 16:46	1
Sulfate	<1.0		1.0	0.21	mg/L			11/29/23 16:46	1

Lab Sample ID: LCS 500-744266/4
Matrix: Water
Analysis Batch: 744266

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.5		mg/L		103	90 - 110
Sulfate	20.0	20.8		mg/L		104	90 - 110

Lab Sample ID: MB 500-744494/3
Matrix: Water
Analysis Batch: 744494

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			12/01/23 01:45	1
Sulfate	<1.0		1.0	0.21	mg/L			12/01/23 01:45	1

Lab Sample ID: LCS 500-744494/4
Matrix: Water
Analysis Batch: 744494

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.4		mg/L		102	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-744494/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 744494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.7		mg/L		104	90 - 110

Lab Sample ID: 500-243025-4 MS — **Client Sample ID: VER-004_MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 744494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	9.2		10.0	18.7		mg/L		95	80 - 120
Sulfate	1.5		10.0	11.1		mg/L		96	80 - 120

Lab Sample ID: 500-243025-4 MSD — **Client Sample ID: VER-004_MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 744494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	9.2		10.0	18.7		mg/L		95	80 - 120	0	20
Sulfate	1.5		10.0	11.1		mg/L		96	80 - 120	1	20

Lab Sample ID: MB 500-744621/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 744621

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			12/01/23 09:50	1
Sulfate	<1.0		1.0	0.21	mg/L			12/01/23 09:50	1

Lab Sample ID: LCS 500-744621/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 744621

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	19.6		mg/L		98	90 - 110
Sulfate	20.0	20.1		mg/L		101	90 - 110

Lab Sample ID: MB 500-744624/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 744624

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			12/01/23 10:01	1
Sulfate	<1.0		1.0	0.21	mg/L			12/01/23 10:01	1

Lab Sample ID: LCS 500-744624/10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 744624

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.2		mg/L		101	90 - 110
Sulfate	20.0	20.4		mg/L		102	90 - 110

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 500-744624/11
Matrix: Water
Analysis Batch: 744624

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			20.0	20.2		mg/L		101	90 - 110	0	20
Sulfate			20.0	20.4		mg/L		102	90 - 110	0	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-744626/28
Matrix: Water
Analysis Batch: 744626

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/30/23 13:27	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/30/23 13:27	1

Lab Sample ID: MB 500-744626/3
Matrix: Water
Analysis Batch: 744626

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/30/23 10:09	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/30/23 10:09	1

Lab Sample ID: LCS 500-744626/29
Matrix: Water
Analysis Batch: 744626

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	99.7		mg/L		100	90 - 110		

Lab Sample ID: LCS 500-744626/4
Matrix: Water
Analysis Batch: 744626

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	94.6		mg/L		95	90 - 110		

Lab Sample ID: 500-243025-4 DU
Matrix: Water
Analysis Batch: 744626

Client Sample ID: VER-004
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	270			269		mg/L				0.5	20
Carbonate Alkalinity as CaCO3	<5.0			<5.0		mg/L				NC	20

Lab Sample ID: MB 500-746041/2
Matrix: Water
Analysis Batch: 746041

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			12/08/23 12:39	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			12/08/23 12:39	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 500-746041/3
Matrix: Water
Analysis Batch: 746041

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			100	97.6		mg/L		98	90 - 110		

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

Lab Sample ID: MB 500-744097/1
Matrix: Water
Analysis Batch: 744097

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	4.3	mg/L			11/28/23 20:36	1

Lab Sample ID: LCS 500-744097/2
Matrix: Water
Analysis Batch: 744097

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			250	246		mg/L		98	80 - 120		

Lab Sample ID: MB 500-744338/1
Matrix: Water
Analysis Batch: 744338

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	4.3	mg/L			11/29/23 22:33	1

Lab Sample ID: LCS 500-744338/2
Matrix: Water
Analysis Batch: 744338

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			250	252		mg/L		101	80 - 120		

Lab Sample ID: 500-243025-4 MS
Matrix: Water
Analysis Batch: 744338

Client Sample ID: VER-004_MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids	350		250	540		mg/L		78	75 - 125		

Lab Sample ID: 500-243025-4 MSD
Matrix: Water
Analysis Batch: 744338

Client Sample ID: VER-004_MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	350		250	554		mg/L		83	75 - 125	3	20

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

Lab Sample ID: MB 500-744339/1
Matrix: Water
Analysis Batch: 744339

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	4.3	mg/L			11/30/23 00:43	1

Lab Sample ID: LCS 500-744339/2
Matrix: Water
Analysis Batch: 744339

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	250	244		mg/L		98	80 - 120

Lab Sample ID: 500-243025-10 DU
Matrix: Water
Analysis Batch: 744339

Client Sample ID: VER-034
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	540		556		mg/L		4	5

Lab Sample ID: MB 500-745288/1
Matrix: Water
Analysis Batch: 745288

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	4.3	mg/L			12/05/23 19:56	1

Lab Sample ID: LCS 500-745288/2
Matrix: Water
Analysis Batch: 745288

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	250	276		mg/L		110	80 - 120

Lab Sample ID: 500-243025-18 MS
Matrix: Water
Analysis Batch: 745288

Client Sample ID: VER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	620		250	848		mg/L		90	75 - 125

Lab Sample ID: 500-243025-18 DU
Matrix: Water
Analysis Batch: 745288

Client Sample ID: VER-002
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	620		610		mg/L		2	5

Lab Sample ID: 500-243025-19 DU
Matrix: Water
Analysis Batch: 745288

Client Sample ID: VER-003R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1200		1220		mg/L		0.2	5

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

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

Lab Sample ID: MB 500-745507/1
Matrix: Water
Analysis Batch: 745507

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	4.3	mg/L			12/07/23 01:57	1

Lab Sample ID: LCS 500-745507/2
Matrix: Water
Analysis Batch: 745507

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	250	232		mg/L		93	80 - 120

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-745605/31
Matrix: Water
Analysis Batch: 745605

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			12/06/23 16:49	1

Lab Sample ID: MB 500-745605/59
Matrix: Water
Analysis Batch: 745605

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			12/06/23 19:04	1

Lab Sample ID: LCS 500-745605/32
Matrix: Water
Analysis Batch: 745605

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.49		mg/L		95	90 - 119

Lab Sample ID: LCS 500-745605/60
Matrix: Water
Analysis Batch: 745605

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.66		mg/L		97	90 - 119

Lab Sample ID: 500-243025-4 MS
Matrix: Water
Analysis Batch: 745605

Client Sample ID: VER-004_MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.32		5.00	5.16		mg/L		97	75 - 125

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: 500-243025-4 MSD — **Client Sample ID: VER-004_MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 745605

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.32		5.00	5.22		mg/L		98	75 - 125	1	20

Lab Sample ID: MB 500-745789/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 745789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			12/07/23 13:27	1

Lab Sample ID: MB 500-745789/31 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 745789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			12/07/23 15:45	1

Lab Sample ID: LCS 500-745789/32 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 745789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	10.1		mg/L		101	90 - 119

Lab Sample ID: LCS 500-745789/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 745789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.85		mg/L		98	90 - 119

Client Sample ID: VER-005
Date Collected: 11/27/23 14:34
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745897	MC	EET CHI	12/08/23 17:29 - 12/08/23 22:29 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 17:21
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 22:46
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		20	748042	RN	EET CHI	12/22/23 12:38
Total/NA	Prep	7470A			746070	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 09:29
Total/NA	Analysis	300.0		5	743995	NMB	EET CHI	11/28/23 17:00
Total/NA	Analysis	300.0		1	743995	NMB	EET CHI	11/28/23 17:46
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 12:06
Total/NA	Analysis	SM 2540C		1	744097	CLB	EET CHI	11/28/23 21:30
Total/NA	Analysis	SM 4500 F C		1	745605	SO	EET CHI	12/06/23 17:34
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/27/23 14:34

Client Sample ID: VER-041
Date Collected: 11/27/23 15:27
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745897	MC	EET CHI	12/08/23 17:29 - 12/08/23 22:29 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 17:25
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 22:50
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		10	748042	RN	EET CHI	12/22/23 12:42
Total/NA	Prep	7470A			746070	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 09:31
Total/NA	Analysis	300.0		5	743995	NMB	EET CHI	11/28/23 17:15
Total/NA	Analysis	300.0		1	743995	NMB	EET CHI	11/28/23 18:01
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 12:15
Total/NA	Analysis	SM 2540C		1	744097	CLB	EET CHI	11/28/23 21:32
Total/NA	Analysis	SM 4500 F C		1	745605	SO	EET CHI	12/06/23 17:38
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/27/23 15:27

Client Sample ID: VER-101&
Date Collected: 11/27/23 15:50
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745898	MC	EET CHI	12/08/23 17:35 - 12/08/23 22:35 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 17:43
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:00

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Lab ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-101&
Date Collected: 11/27/23 15:50
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		10	748042	RN	EET CHI	12/22/23 12:46
Total/NA	Prep	7470A			746070	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 09:33
Total/NA	Analysis	300.0		5	743995	NMB	EET CHI	11/28/23 17:30
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 12:25
Total/NA	Analysis	SM 2540C		1	744097	CLB	EET CHI	11/28/23 21:35
Total/NA	Analysis	SM 4500 F C		1	745605	SO	EET CHI	12/06/23 17:42
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/27/23 15:50

Client Sample ID: VER-004
Date Collected: 11/28/23 13:15
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745489	MC	EET CHI	12/06/23 19:08 - 12/07/23 00:08 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	745797	JAB	EET CHI	12/07/23 13:05
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:03
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		10	748042	RN	EET CHI	12/22/23 12:50
Total/NA	Prep	7470A			746070	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 09:35
Total/NA	Analysis	300.0		1	744494	NMB	EET CHI	12/01/23 05:48
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 12:35
Total/NA	Analysis	SM 2540C		1	744338	CLB	EET CHI	11/29/23 23:09
Total/NA	Analysis	SM 4500 F C		1	745605	SO	EET CHI	12/06/23 19:24
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 13:15

Client Sample ID: VER-017
Date Collected: 11/28/23 15:00
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745489	MC	EET CHI	12/06/23 19:08 - 12/07/23 00:08 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		2	746074	JAB	EET CHI	12/08/23 16:45
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:24
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		10	748042	RN	EET CHI	12/22/23 13:20
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 07:45
Total/NA	Analysis	300.0		5	744266	NMB	EET CHI	11/29/23 19:03
Total/NA	Analysis	300.0		50	744494	NMB	EET CHI	12/01/23 06:48

Client Sample ID: VER-017
Date Collected: 11/28/23 15:00
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 13:08
Total/NA	Analysis	SM 2540C		1	744338	CLB	EET CHI	11/29/23 23:19
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 13:58
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 15:00

Client Sample ID: VER-020
Date Collected: 11/28/23 14:28
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745489	MC	EET CHI	12/06/23 19:08 - 12/07/23 00:08 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	745797	JAB	EET CHI	12/07/23 13:46
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:28
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 13:24
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 07:47
Total/NA	Analysis	300.0		5	744266	NMB	EET CHI	11/29/23 19:18
Total/NA	Analysis	300.0		1	744624	NMB	EET CHI	12/01/23 10:48
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 13:17
Total/NA	Analysis	SM 2540C		1	744338	CLB	EET CHI	11/29/23 23:22
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 14:02
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 14:28

Client Sample ID: VER-021
Date Collected: 11/28/23 16:03
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745489	MC	EET CHI	12/06/23 19:08 - 12/07/23 00:08 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	745797	JAB	EET CHI	12/07/23 13:51
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:31
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 13:27
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 07:49
Total/NA	Analysis	300.0		1	744624	NMB	EET CHI	12/01/23 11:03
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 13:41
Total/NA	Analysis	SM 2540C		1	744338	CLB	EET CHI	11/29/23 23:24
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 14:08
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 16:03

Client Sample ID: VER-034
Date Collected: 11/28/23 15:09
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745898	MC	EET CHI	12/08/23 17:35 - 12/08/23 22:35 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 18:17
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:41
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 13:31
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:04
Total/NA	Analysis	300.0		1	744624	NMB	EET CHI	12/01/23 11:19
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 13:51
Total/NA	Analysis	SM 2540C		1	744339	CLB	EET CHI	11/30/23 00:55
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 14:12
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 15:09

Client Sample ID: VER-036
Date Collected: 11/28/23 15:48
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745898	MC	EET CHI	12/08/23 17:35 - 12/08/23 22:35 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 18:21
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:45
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		10	748042	RN	EET CHI	12/22/23 13:35
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:06
Total/NA	Analysis	300.0		5	744266	NMB	EET CHI	11/29/23 21:19
Total/NA	Analysis	300.0		50	744624	NMB	EET CHI	12/01/23 11:35
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 14:01
Total/NA	Analysis	SM 2540C		1	744339	CLB	EET CHI	11/30/23 01:01
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 14:42
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 15:48

Client Sample ID: VER-037
Date Collected: 11/28/23 08:44
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745898	MC	EET CHI	12/08/23 17:35 - 12/08/23 22:35 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 18:25
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:48

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Lab ID: 500-243025-3
SDG: VER_845_910-911

Client Sample ID: VER-037
Date Collected: 11/28/23 08:44
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 13:46
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:08
Total/NA	Analysis	300.0		5	744266	NMB	EET CHI	11/29/23 21:34
Total/NA	Analysis	300.0		1	744624	NMB	EET CHI	12/01/23 11:50
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 14:10
Total/NA	Analysis	SM 2540C		1	744339	CLB	EET CHI	11/30/23 01:03
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 14:47
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 08:44

Client Sample ID: VER-038
Date Collected: 11/28/23 12:19
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745898	MC	EET CHI	12/08/23 17:35 - 12/08/23 22:35 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 18:29
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:52
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 13:50
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:10
Total/NA	Analysis	300.0		1	744624	NMB	EET CHI	12/01/23 12:06
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 14:20
Total/NA	Analysis	SM 2540C		1	744339	CLB	EET CHI	11/30/23 01:06
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 14:51
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 12:19

Client Sample ID: VER-042
Date Collected: 11/28/23 10:26
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745898	MC	EET CHI	12/08/23 17:35 - 12/08/23 22:35 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 18:34
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:55
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 13:54
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:12
Total/NA	Analysis	300.0		5	744266	NMB	EET CHI	11/29/23 22:05

Client Sample ID: VER-042
Date Collected: 11/28/23 10:26
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 14:33
Total/NA	Analysis	SM 2540C		1	744339	CLB	EET CHI	11/30/23 01:08
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 14:56
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 10:26

Client Sample ID: VER-043
Date Collected: 11/28/23 11:17
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745898	MC	EET CHI	12/08/23 17:35 - 12/08/23 22:35 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 18:46
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/19/23 23:59
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 13:58
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:14
Total/NA	Analysis	300.0		5	744266	NMB	EET CHI	11/29/23 22:20
Total/NA	Analysis	300.0		1	744624	NMB	EET CHI	12/01/23 12:22
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 14:43
Total/NA	Analysis	SM 2540C		1	744339	CLB	EET CHI	11/30/23 01:11
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 15:01
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 11:17

Client Sample ID: VER-103&
Date Collected: 11/28/23 09:15
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745898	MC	EET CHI	12/08/23 17:35 - 12/08/23 22:35 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 18:50
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/20/23 00:02
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 14:01
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:16
Total/NA	Analysis	300.0		5	744266	NMB	EET CHI	11/29/23 22:35
Total/NA	Analysis	300.0		50	744624	NMB	EET CHI	12/01/23 12:37
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 14:54
Total/NA	Analysis	SM 2540C		1	744339	CLB	EET CHI	11/30/23 01:14
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 15:06

Client Sample ID: VER-103&
Date Collected: 11/28/23 09:15
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 09:15

Client Sample ID: VER-038_FD
Date Collected: 11/28/23 12:24
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			746073	BDE	EET CHI	12/11/23 09:08 - 12/11/23 09:38 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	746479	SJ	EET CHI	12/12/23 17:20
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 ¹
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/20/23 00:06
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 ¹
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 14:05
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 ¹
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:19
Total/NA	Analysis	300.0		1	744624	NMB	EET CHI	12/01/23 12:53
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 15:04
Total/NA	Analysis	SM 2540C		1	744339	CLB	EET CHI	11/30/23 01:16
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 15:11
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/28/23 12:24

Client Sample ID: VER-002
Date Collected: 11/29/23 10:07
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			746073	BDE	EET CHI	12/11/23 09:08 - 12/11/23 09:38 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	746479	SJ	EET CHI	12/12/23 17:24
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 ¹
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/20/23 00:09
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 ¹
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 14:09
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 ¹
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:21
Total/NA	Analysis	300.0		1	744624	NMB	EET CHI	12/01/23 15:13
Total/NA	Analysis	300.0		2	744624	NMB	EET CHI	12/01/23 15:29
Total/NA	Analysis	SM 2320B		1	746041	SO	EET CHI	12/08/23 12:52
Total/NA	Analysis	SM 2540C		1	745288	CLB	EET CHI	12/05/23 20:01
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 15:26
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/29/23 10:07

Client Sample ID: VER-003R
Date Collected: 11/29/23 08:28
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			746073	BDE	EET CHI	12/11/23 09:08 - 12/11/23 09:38 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	746479	SJ	EET CHI	12/12/23 17:29
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 ¹
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/20/23 00:13
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 ¹
Total Recoverable	Analysis	6020B		20	748042	RN	EET CHI	12/22/23 14:25
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 ¹
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:23
Total/NA	Analysis	300.0		1	744624	NMB	EET CHI	12/01/23 15:44
Total/NA	Analysis	300.0		20	744624	NMB	EET CHI	12/01/23 16:00
Total/NA	Analysis	SM 2320B		1	746041	SO	EET CHI	12/08/23 13:02
Total/NA	Analysis	SM 2540C		1	745288	CLB	EET CHI	12/05/23 20:08
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 15:30
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/29/23 08:28

Client Sample ID: VER-008R
Date Collected: 11/29/23 08:57
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			746073	BDE	EET CHI	12/11/23 09:08 - 12/11/23 09:38 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	746479	SJ	EET CHI	12/12/23 17:41
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 ¹
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/20/23 00:23
Total Recoverable	Prep	3005A			745805	BDE	EET CHI	12/08/23 09:17 - 12/08/23 09:47 ¹
Total Recoverable	Analysis	6020B		20	748042	RN	EET CHI	12/22/23 14:29
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 ¹
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:29
Total/NA	Analysis	300.0		1	744624	NMB	EET CHI	12/01/23 16:47
Total/NA	Analysis	300.0		50	744624	NMB	EET CHI	12/01/23 17:02
Total/NA	Analysis	SM 2320B		1	746041	SO	EET CHI	12/08/23 13:11
Total/NA	Analysis	SM 2540C		1	745288	CLB	EET CHI	12/05/23 20:14
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 15:35
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/29/23 08:57

Client Sample ID: VER-040
Date Collected: 11/29/23 10:57
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745817	BDE	EET CHI	12/08/23 09:53 - 12/08/23 10:23 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 19:21
Total Recoverable	Prep	3005A			745806	BDE	EET CHI	12/08/23 09:20 - 12/08/23 09:50 ¹
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/20/23 01:04

Client Sample ID: VER-040
Date Collected: 11/29/23 10:57
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			745806	BDE	EET CHI	12/08/23 09:20 - 12/08/23 09:50 [1]
Total Recoverable	Analysis	6020B		20	748512	RN	EET CHI	12/22/23 15:42
Total/NA	Prep	7470A			746076	MJG	EET CHI	12/11/23 09:05 - 12/11/23 11:05 [1]
Total/NA	Analysis	7470A		1	746278	MJG	EET CHI	12/12/23 08:36
Total/NA	Analysis	300.0		5	744621	NMB	EET CHI	12/01/23 15:09
Total/NA	Analysis	300.0		200	744621	NMB	EET CHI	12/01/23 15:24
Total/NA	Analysis	SM 2320B		1	746041	SO	EET CHI	12/08/23 13:39
Total/NA	Analysis	SM 2540C		1	745507	CLB	EET CHI	12/07/23 02:56
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 16:00
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/29/23 10:57

Client Sample ID: VER-002_FD
Date Collected: 11/29/23 10:12
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745817	BDE	EET CHI	12/08/23 09:53 - 12/08/23 10:23 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	746256	SJ	EET CHI	12/11/23 19:55
Total Recoverable	Prep	3005A			745806	BDE	EET CHI	12/08/23 09:20 - 12/08/23 09:50 [1]
Total Recoverable	Analysis	6020B		1	747510	RN	EET CHI	12/20/23 01:25
Total Recoverable	Prep	3005A			745806	BDE	EET CHI	12/08/23 09:20 - 12/08/23 09:50 [1]
Total Recoverable	Analysis	6020B		1	748679	RN	EET CHI	12/29/23 14:15
Total/NA	Prep	7470A			746288	MJG	EET CHI	12/12/23 10:25 - 12/12/23 12:25 [1]
Total/NA	Analysis	7470A		1	746499	MJG	EET CHI	12/13/23 08:15
Total/NA	Analysis	300.0		2	744621	NMB	EET CHI	12/01/23 17:56
Total/NA	Analysis	SM 2320B		1	746041	SO	EET CHI	12/08/23 14:28
Total/NA	Analysis	SM 2540C		1	745288	CLB	EET CHI	12/05/23 20:37
Total/NA	Analysis	SM 4500 F C		1	745789	SO	EET CHI	12/07/23 16:42
Total/NA	Analysis	Field Sampling		1	747821	DN	EET CHI	11/29/23 10:12

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-3
SDG: VER_845_910-911

Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	04-29-24

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
200.7 Rev 4.4	200.7	Water	Lithium
Field Sampling		Water	Depth to Water (ft from MP)
Field Sampling		Water	Field pH
Field Sampling		Water	Field Temperature
Field Sampling		Water	Oxidation Reduction Potential
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Turbidity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3

Courier Pickup

500-243025 COC 001

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 1 of 2

Section A Required Client Information	Section B Required Project Information	Section C Invoice Information
Company: Vistra Corp-Vermilion	Report To: Brian Voelker Jason Stuckey	Attention: Brian Voelker
Address: 10188 E 2150 North Rd	Copy To: Sam Davies samantha davies@vistracorp.com	Company Name: Vistra Corp
Danville, IL 61834	Dianna Tickner Dianna Tickner@vistracorp com	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	VER-060_RAD	Residual Chlorine (Y/N)	Project No./ Lab I.D
1	VER-002																						
2	VER-003R																						
3	VER-004																						
4	VER-005			11-27-23	1424		6	3		3							X	X		X			
5	VER-007R																						
6	VER-008R																						
7	VER-010																						
8	VER-016IB																						
9	VER-016A																						
10	VER-017																						
11	VER-020																						
12	VER-021																						
13	VER-022																						
14	VER-034																						
15	VER-035#S																						
16	VER-035&D																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0		11/26/23	976		11/28/23	0926	
		11/28/23	1123	Stephanie Hemmady FEIA	11/29/23	1123	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Duda

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 11/26/23

Temp in °C: 2.5+2.3 | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Courier pickup

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 2 of 2

Section A Required Client Information.	Section B Required Project Information	Section C Invoice Information
Company: Vistra Corp-Vermilion	Report To: Brian Voelker (Jason Stuckey)	Attention: Jason Stuckey
Address: 10188 E 2150 North Rd	Copy To: Sam Davies samantha davies@vistracorp.com	Company Name: Vistra Corp
Danville, IL 61834	Dianna Tickner - Dianna Tickner@vistracorp.com	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N ↓	VER_000	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000-A	VER_000-RAD	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER-036																							
2	VER-037																							
3	VER-038																							
4	VER-040																							
2 5	VER-041			11-27-23	1527		6	3		3								X		X	X			
6	VER-042																							
7	VER-043																							
8	VER-070#S																							
9	VER-070&D																							
10	VER-071#S																							
11	VER-071&D																							
3 12	VER-101&			11-27-23	1550		6	3		3							X	X			X	X		
13	VER-103&																							
14	VER-ND3																							
15	VER-NED1																							
16	VER-OED1																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	[signature] (Ramboll)	11/28/23	926	Stephanie Hernandez EEA	11/28/23	1123	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Rudy

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/28/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Conflict Policy

CHAIN-OF-CUSTODY / Analytical Request Document

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COC# 1940105513 002

Page 1 of 3

500-243025

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Vermilion	Report To	Brian Voelker	Attention	Brian Voelker
Address	10188 E 2150 North Rd	Copy To	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner Dianna Tickner@vistracorp com	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference	
Phone	(217) 753-8911 Fax.	Project Name		Project Manager	
Requested Due Date/TAT	10 day	Project Number	2285	Profile #	

500 243025 COC

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE	IL	

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

	ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	Ver_000_RAD	VER_000_B	Residual Chlorine (Y/N)	Project No./ Lab I D
	1	VER-002																							
	2	VER-003R																							
4	3	VER-004	Gw	G	11/28/23	1315		18	9		9							X	X			X			
	4	VER-005																							
	5	VER-007R																							
	6	VER-008R																							
5	7	VER-010	Gw	G	11/28/23	1340		7	3		4								X	X	X	X	X		
	8	VER-016!B																							
	9	VER-016A																							
6	10	VER-017	Gw	G	11/28/23	1500		6	3		3							X	X			X			
7	11	VER-020	Gw	G	11/28/23	1428		6	3		3							X	X			X			
8	12	VER-021	Gw	G	11/28/23	1603		6	3		3							X	X			X			
9	13	VER-022	Gw	G	11/28/23	1248		18	9		9							X		X		X			
10	14	VER-034	Gw	G	11/28/23	1509		6	3		3							X	X			X			
	15	VER-035#S																							
	16	VER-035&D																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	[signature]	11-29-23	917	[signature]	11/29/23	0917	3.4→3.2, 2.7+2.5
Ver-022 MS/MSD, Ver-004 MS/MSD	[signature]	11/29/23	1115	[signature]	11/29/23	1115	5.4+5.2, 3.6+3.4

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Ord

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11-29-23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

5.9+5.7

courier pickup

CHAIN-OF-CUSTODY / Analytical Request Document

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COC#19401055 15.002

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500-243025

Section A Required Client Information

Company:	Vistra Corp-Vermilion
Address	10188 E 2150 North Rd
	Danville, IL 61834
Email To:	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax:
Requested Due Date/TAT	10 day

Section B Required Project Information.

Report To	Brian Voelker
Copy To	Sam Davies samantha.davies@vistracorp com
	Dianna Tickner Dianna Tickner@vistracorp com
Purchase Order No	
Project Name	
Project Number	2285

Section C Invoice Information

Attention	Jason Stuckey
Company Name	Vistra Corp
Address	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z 0-9 / -)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	VER-000-RAD	Residual Chlorine (Y/N)	Project No./ Lab I D.
11 1	VER-036	GW	6	11/28/23	1576		6	3		3							X	X			X		
12 2	VER-037	GW	6	11/28/23	0844		6	3		3							X	X			X		
13 3	VER-038	GW	6	11/28/23	1214		6	3		3							X	X			X		
4	VER-040																						
5	VER-041																						
14 6	VER-042	GW	6	11/28/23	1026		6	3		3							X	X			X		
15 7	VER-043	GW	6	11/28/23	1117		6	3		3							X	X			X		
8	VER-070#S																						
9	VER-070&D																						
10	VER-071#S																						
11	VER-071&D																						
12	VER-101&																						
16 13	VER-103&	GW	6	11/28/23	0915		6	3		3							X	X			X		
14	VER-ND3																						
15	VER-NED1																						
16	VER-OED1																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0		11-29-23	0917		11/29/23	0917	
		11/29/23	1115		11/29/23	1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Dorn

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11-29-23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Cooler pickup

COC #1940105515 002

CHAIN-OF-CUSTODY / Analytical Request Document

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500-243025

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Vermilion	Report To	Brian Voelker	Attention	Jason Stuckey
Address	10188 E 2150 North Rd	Copy To:	Sam Davies. samantha.davies@vistracorp com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner - Dianna Tickner@vistracorp com	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No		Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name		Project Manager	
Requested Due Date/TAT	10 day	Project Number	2285	Profile #	

REGULATORY AGENCY		
NPDES	**GROUND WATER**	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE	IL	

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_00C-RAD							Residual Chlorine (Y/N)	Project No./ Lab I.D
1	VER-YSG01																												
2	Field Blank																												
17 3	VER_07B_FD	GW	G	11/28/23	1224		6	3		3							X	X			X								
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	[signature]	11-29-23	917	[signature]	11/29/23	0917	
	[signature]	11/29/23	1115	[signature]	11/29/23	1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Dav.

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/29/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

COCH1970105515003

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 1 of 3

500-243025

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Vermilion	Report To	Brian Voelker	Attention	Brian Voelker
Address	10188 E 2150 North Rd	Copy To	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner - Dianna Tickner@vistracorp com	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No		Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name		Project Manager	
Requested Due Date/TAT	10 day	Project Number	2285	Profile #	

REGULATORY AGENCY		
NPDES	**GROUND WATER**	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE	IL	

Section D Required Client Information

SAMPLE ID (A-Z 0-9 /) Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

COLLECTED: 500-243025 COC

Requested Analysis Filtered (Y/N)

	ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000-RAD	VER_200-B	Residual Chlorine (Y/N)	Project No./Lab I.D.
18	1	VER-002	GW	G	11-29-23	1007		6	3		3							X	X			X			
19	2	VER-003R	GW	G	11-29-23	0828		6	3		3							X	X			X			
	3	VER-004																							
	4	VER-005																							
	5	VER-007R																							
20	6	VER-008R	GW	G	11-29-23	0857		6	3		3							X	X			X			
	7	VER-010																							
	8	VER-016!B																							
21	9	VER-016A	GW	G	11-29-23	0950		7	3		4									X	X	X	X		
	10	VER-017																							
	11	VER-020																							
	12	VER-021																							
	13	VER-022																							
	14	VER-034																							
	15	VER-035#S																							
22	16	VER-035&D	GW	G	11-29-23	0807		7	3		4									X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	Scott Woods on behalf of Nate Duda	11/30/23	0905	N. J. Ellar	11/30/23	0905	3.0→2.8, 4.4→4.2
	Scott Woods			Scott	11/30/23	1009	2.8→2.6, 3.9→3.7
							2.6→2.4, 1.7→1.6

N. J. Ellar 11/30/23 1009

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Nate Duda		
SIGNATURE of SAMPLER	[signature]	DATE Signed (MM/DD/YY)	11-29-23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 2 of 3

500-243025

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Vermilion	Report To	Brian Voelker	Attention	Jason Stuckey
Address	10188 E 2150 North Rd	Copy To.	Sam Davies samantha davies@vistracorp com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner Dianna Tickner@vistracorp com	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference	
Phone	(217) 753-8911 Fax	Project Name		Project Manager	
Requested Due Date/TAT	10 day	Project Number	2285	Profile #	

REGULATORY AGENCY		
NPDES	**GROUND WATER**	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE	IL	

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

	ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_X	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000-NAD	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	1	VER-036																						
	2	VER-037																						
	3	VER-038																						
23	4	VER-040	GW	G	11-29-23	1057		6	3		3							X	X			X		
	5	VER-041																						
	6	VER-042																						
	7	VER-043																						
24	8	VER-070#S	GW	G	11/29/23	1210		6	3		3							X		X		X		
25	9	VER-070&D	GW	G	11/29/23	1307		6	3		3							X		X		X		
	10	VER-071#S																						
26	11	VER-071&D	GW	G	11/29/23	1055		2	1		1							X		X				Revised 12/4/23, Eric Bauer
	12	VER-101&																						
	13	VER-103&																						
	14	VER-ND3																						
27	15	VER-NED1	GW	G	11/29/23	1205		6	3		3							X		X		X		
	16	VER-OED1																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	Scott Woods on behalf of Nate Duda SHWB	11/30/23	0905	R. Ellhau	11/30/23	0905	
VER710 wat dry	Nate Duda SHWB / R. J. Ellhau	11/30/23	1009	[illegible]	11/30/23	1009	

Collected water can

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER	Nate Duda		
SIGNATURE of SAMPLER	[signature]	DATE Signed (MM/DD/YY)	11/29/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

COCH1 [illegible] 007

Page 3 of 3

500-243025

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Vermilion	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	10188 E 2150 North Rd	Copy To:	Sam Davies samantha davies@vistracorp.com	Company Name:	Vistra Corp
	Danville, IL 61834		Dianna Tickner Dianna Tickner@vistracorp com	Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

	ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_RAD	VER_000_B	Residual Chlorine (Y/N)	Project No./ Lab I D
	1	VER-YSG01																							
28	2	~~Field Blank~~ VER_EB-1	WT	G	11/29/23	1315		7										X	[illegible]	(X)	(X)	(X)	(X)		
29	3	VER_002_FD	GW	G	11-29-23	1012		6	3		3							~~(X)~~	~~X~~	~~X~~		~~X~~			
	4																	X	X			X			
30	5	VER-035D_FD	GW	G	11-29-23	0812														X	X	X	X		
	6																								
	7																								
	8																								
	9																								
	10																								
	11																								
	12																								
	13																								
	14																								
	15																								
	16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	Scott Woods on behalf of Nate Duda [illegible]	11/30/23	0905	[signature]	11/30/23	0905	
VER-EB-1 circled is for analysis	[signature]	11/30/23	1009	[signature]	11/30/23	1009	

VER_845_912, VER-NPDES-912, VER_000_RAD
VER_000_B
SAME AS VER-035D_FD

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-243025-3
SDG Number: VER_845_910-911

Login Number: 243025
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

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	2.3,3.2,2.5,5.2,3.4,5.7,2.8,4.2,2.6,3.7,2.4,1.6
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion
Client:
Project Number:
Task #:
Start Date: 11/28/23 Time: 1257
Field Personnel: LCA SK
Finish Date: Time: 1315

WELL INFORMATION

Well ID: 04
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL Depth FT BTOC	INITIAL Time (24-Hour)	FINAL Depth FT BTOC	FINAL Time (24-Hour)
LNAPL	NA			
Groundwater	8.41	1257	8.90	1315
DNAPL	NA			
Casing Base	NA			

Water Level Serial #:

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1257	0.0	8.41	NA	12.28	7.76	466.45	2.68	50.42	-123.7	clear
purge	1303	↓	8.90	0.49	12.56	7.75	465.24	0.74	21.30	-164.0	clear
	↓	↓	↓	0.00	↓	↓	↓	↓	↓	↓	↓
							data in VN situ				
sample	1315	~1.5	8.90	0.00	12.37	7.75	466.00	0.61	7.78	-188.6	clear

* Hach meter readings *
INITIAL 18.9
PURGE 13.9

MS/MSD 008

* can take either turbidity reading (they matched up)

9:00	11.1
12:00	9.3
15:00	7.4
18:00	7.3

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion
Client:
Project Number:
Task #:
Start Date: 11/27/23 Time: 1400
Field Personnel: LCA SVK
Finish Date: Time: 1434

WELL INFORMATION

Well ID: 05
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	7.84	1400	8.07	1434
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1400	0.0	7.84	NA	12.15	7.33	706.40	2.15	77.64	170.3	cleark
purge	1406		7.98	0.14							
			8.04	0.06	↓	↓				↓	↓
			8.07	0.03							
			↓	0.00			data	in vn	situ		
							↓	↓	↓		
			↓	↓	↓	↓				↓	↓
sample	1434	~1	8.07	0.00	12.80	7.45	720.14	0.05	0.98	73.8	cleark

001

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion | Client:
Project Number: | Task #: | Start Date: 11/27/23 Time: 1502
Field Personnel: LCA SK | Finish Date: Time: 1527

WELL INFORMATION

Well ID: 41
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: ~200 ML/MIN

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	7.25	1502	7.30	1527
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1502	0.0	7.25	NA	10.56	7.26	1089.9	2.74	9.53	-87.9	clear
purge	1508	↓	7.30	0.05							
			7.30	0.00	↓	↓			↓	↓	↓
			↓	↓							
							data in VN sitn				
		↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
sample	15:27	~1	7.30	0.00	11.59	7.25	1113.3	0.14	75.84	-207.5	clear

002

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion
Client: Vistra
Project Number:
Task #:
Start Date: 11/27/23 Time: 15:08
Field Personnel: Michael Davis, Kyle Heimstead
Finish Date: 11/27/23 Time: 15:50

WELL INFORMATION

Well ID: VER_101
Casing ID: 2 Inches
Screen Interval: 151-141
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: QED M9so
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 140 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	108.81	1500	111.27	1550
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: N/A feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	15:00	0.26	108.81	N/A	—	—	—	—	—	—	—
purge	15:05	~~0.15~~ 0.41	—	—	10.95	7.44	836.88	0.94	1,873.9	-122.1	Cloudy
	15:~~10~~	0.56	—	—		Saved in Vusitas		File	988.43	Saved	In Vusitas
	15:~~15~~	0.71	110.31	-1.5					482.00		
	15:~~20~~	0.86	—	—					273.22		
	15:~~25~~	1.01	—	—					277.09		
	15:~~30~~	1.16	—	—					591.78		
	15:~~35~~	1.31	110.91	-2.1					419.1 *		

(MD)

Continue to second page →

Continued →

* HACH Reading

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion
Client: Vistra
Project Number:
Task #:
Start Date: 11/27/23 Time: 1500
Field Personnel: Michael Davis, Kyle Heimstead
Finish Date: 11/27/23 Time: 1550

WELL INFORMATION

Well ID: VER_101d
Casing ID: 2 inches

EVENT TYPE

☐ Well Development
☐ Well Volume Approach Sampling
☑ Low-Flow / Low Stress Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1540	1.46	111.09	-2.28	Saved in Vu Site file				21.5*	Saved in Vu Site	
	1545	2.01	111.19	-2.38	↓	↓	↓	↓	21.1*	↓	↓
	1550	2.16	111.27	-2.46	10.61	7.55	836.55	0.52	24.1*	-146.1	Slightly turbid

NOTES (continued)

Second pase of Ver-101

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

* HACH Reading

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: VISTRA - VERMILLION
Client:
Project Number:
Task #:
Start Date: 11/28/23 Time: 1055
Field Personnel: MICHAEL DAVIS / KYLE HEIMSTEAD
Finish Date: 11/28/23 Time: 1340

WELL INFORMATION

Well ID: VER_10
Casing ID: 2 Inches
Screen Interval: 46.6 - 56.6
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: QED M150
Tube/Pump Intake Depth:
Stabilized Pumping Rate (to) 190 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	N/A			
Groundwater	51.51	1037	54.68+ top of pump	1137
DNAPL	N/A			
Casing Base	N/A			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1102	0.25	54.15	-2.64	11.10	7.01	1,301.1	4.05	52.9*	193.6	OK
purge	1107	0.50	54.64	-0.49	See Various		File		49.7*		Slightly Turbid
	1112	~~0.75~~	54.68+	+					54.0*		
	1117	0.74	+	+					74.1*		
	1122	0.86	+	+					31.2*		
	1127	0.98	+	+					17.2*		
	1132	1.10	+	+					22.2*		
	1137	1.22	+	+	9.76	7.03	1,2423	2.49	15.5*	142.6	

At 1107 switched from 190 mL/min to 90 mL/min due to drawdown.

Sampled at: 1340 11/28/23

* HACH Reading
+ top of pump (not water level)

Well purged dry 11/28/23 @ 1137

Returned to sample 11/28/23 @ 1340

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: VISTRA - VERMILLION
Client:
Project Number:
Task #:
Start Date: 11/28/23 Time: 1420
Field Personnel: MICHAEL DAVIS / KYLE HEIMSTEAD
Finish Date: 11/28/23 Time: 1530

WELL INFORMATION

Well ID: VER-17
Casing ID: 2 Inches
Screen Interval: 54-59
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: QED MP50
Tube/Pump Intake Depth: 160
Stabilized Pumping Rate: 200 mL / min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	N/A			
Groundwater	41.92	1420	47.89	1456
DNAPL	N/A			
Casing Base	N/A			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1435	0.48	42.92	1.0	12.38	7.05	2,125.6	4.04	* 50.2	-7.6	Clear
purge	1438	0.64	42.92	0	12.03	7.01	2,112.8	1.12	* 43.3	-12.9	
	1441	0.80	44.00	1.08	11.75	6.99	2,106.5	0.72	* 41.2	-6.9	
	1444	0.96	45.41	1.41	11.75	6.98	2,103.7	0.61	* 46.0	-0.7	
	1447	1.12	46.12	0.71	11.73	6.98	2,104.6	0.56	* 41.9	4.2	
	1450	1.25	46.62	0.50	11.10	6.98	2,101.2	0.61	—	7.2	
	1453	1.37	47.15	0.53	11.00	6.98	2,108.3	0.62	* 42.1	7.5	
	1456	1.49	47.89	0.74	10.99	6.99	2,112.3	0.61	* 48.8	4.0	

Purged for 9 minutes prior to initial reading above (1425-1435)
Purge rate reduced from 200 mL/min to 160 mL/min due to drawdown.
Sample Time: 1500
@ 1447

* HACH Reading

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion | Client:
Project Number: | Task #: | Start Date: 11/28/23 Time: 1416
Field Personnel: LCA SK | Finish Date: Time: 1428

WELL INFORMATION

Well ID: 20
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min hr

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	15.62	1416	15.62	1428
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1416	0.0	15.62	NA	11.64	7.23	610.23	0.40	76.23	-78.8	clear
purge	1422	↓	15.62	0.00	11.86	7.21	621.28	0.32	41.89	-76.5	clear
	1425	↓	15.62	0.00	11.97	7.20	625.27	0.30	38.90	-75.6	clear
Sample	1428	~1	15.62	0.00	11.95	7.19	628.92	0.28	30.40	-74.7	clear
									* 12.1 HACH		
					LCA 11/28						

* Hach turbidity readings
INITIAL 29.0
PURGE 17.3
9:00 12.0
12:00 12.1

*purged for 9 mins before beginning test

* stopped test @ 15 min disregard 15 min mark (AT already unplugged)

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vistra - Vermillion
Client:
Project Number:
Task #:
Start Date: 11/28/23 Time: 1530
Field Personnel: Michael Davis / Kyle Heimstead
Finish Date: 11/28/23 Time:

WELL INFORMATION

Well ID: VER-21
Casing ID: 2 Inches
Screen Interval: 104-109
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: QED MP50
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	N/A			
Groundwater	92.25	1530	97.25	1559
DNAPL	N/A			
Casing Base	N/A			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1540	0.48	95.15	2.90	11.26	7.51	659.66	2.19	* 13.4	-66.8	Clear
purge	1543	0.64	96.22	1.12	11.54	7.57	647.74	0.5570	* 7.80	-102.2	
	1546	0.80	96.50	0.28	11.18	7.59	646.74	0.55	* 6.62	-115.2	
	1549	0.96	96.73	0.23	11.21	7.60	646.11	0.51	* 6.38	-122.8	
	1553	1.12	96.91	0.18	11.07	7.62	645.18	0.49	* 7.28	-130.0	
	1556	1.28	97.10	0.20	11.10	7.62	644.20	0.45	* 6.85	-134.6	
	1559	1.44	97.25	0.15	11.14	7.63	643.60	0.42	* 7.42	-138.2	
(dup)	~~1602~~										

Purged for 9 minutes prior to initial reading above (1539-1540)

Sample collected at: 1603

* HACH measurement

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: VISTRA - VERMILLION
Client:
Project Number:
Task #:
Start Date: 11/28/23 Time: 1200
Field Personnel: MICHAEL DAVIS / KYLE HEIMSTEAD
Finish Date: 11/28/23 Time: 1248

WELL INFORMATION

Well ID: VER_22
Casing ID: 2 Inches
Screen Interval: 80-100
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: QED 50 mp2
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 120 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	N/A	1152		
Groundwater	56.15	~~1144~~ (mp2)	58.81	1245
DNAPL	N/A			
Casing Base	N/A			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1210	0.30	57.39	1.24	10.94	7.55	745.78	4.48	* 1204	29.2	Slightly Turbid
purge	1215	0.45	57.75	0.36	See	visible	visible		* 7.57		↓
	1220	0.60	57.93	0.18					* 8.07		↓
	1225	0.75	58.10	0.17					* 5.61		Clear
	1230	0.90	58.27	0.17					* 5.44		↓
	1235	1.05	58.45	0.18					* 4.67		↓
	1240	1.20	58.65	0.20					* 3.87		↓
	1245	1.25	58.81	0.16	11.37	7.51	789.93	0.77	* 3.94	-7.9	↓

SAMPLE TIME = 1248

* HACH Reading

Revised 12/21: CJC

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion
Client:
Project Number:
Task #:
Start Date: 11/28/23 Time: 1500
Field Personnel: LCA SRK
Finish Date: Time: 1509

WELL INFORMATION

Well ID: 354
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/MIN

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	15.23	1500	15.44	1509
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1500	0.0	15.23	NA	10.13	7.24	695.52	0.44	254.86	-146.4	clear
purge	1506	↓	15.44	0.21	10.24	7.26	846.60	0.25	276.31	-163.1	clear
Sample	1509	~1	15.44	0.00	9.99	7.26	837.07	0.24	294.96	-166.3	clear
									* 64.2 HACH		
					LCA 11/28						

Hach turbidity readings
INITIAL 70.4
PURGE 73.3
9:00 64.2

* purged for 9 mins then started test

010

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion
Client:
Project Number:
Task #:
Start Date: 11/28/23 Time: 0934
Field Personnel: LCA SVK
Finish Date: Time:

WELL INFORMATION

Well ID: 36
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	15.07	0934		
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0934	0.0	15.07	NA	10.23	7.33	1,679.7	0.66	270.0	-141.6	cloudy
purge	0940				10.30	7.52	1,646.8	8.15	360.13	-145.5	cloudy
				FLASH	Freeze	=	WILL	RETURN			

* water line flash freezing for ~1 hr

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion
Client:
Project Number:
Task #:
Start Date: 11/28/23 Time: 1539
Field Personnel: LCA SAK
Finish Date: Time: 1548

WELL INFORMATION

Well ID: 36
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 ml/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	15.07	1539	15.39	1548
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1539	0.0	15.07	NA	11.73	7.29	1,688.3	0.84	482.29	-130.7	clear
purge	1545	↓	↓	↓	11.70	7.28	1,700.8	0.81	340.62	-132.5	clear
sample	1548	~1	15.39	0.32	11.80	7.28	1,706.2	0.73	267.03	-132.8	clear
									*80.4		
									* HACH		
					LCA 11/28						

* HACH turbidity readings *
INITIAL 89.0
PURGE 72.0
* 9:00 80.4

* purged for 9 mins before beginning test

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion | Client:
Project Number: | Task #: | Start Date: 11/28/23 Time: 0823
Field Personnel: LCA SK | Finish Date: Time: 0844

WELL INFORMATION

Well ID: 37
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☐ Pump
Bailer Type: n/a
Pump Type and Serial #: Bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: ~200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	9.37	0823	9.90	0844
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0823	0.0	9.37	NA	10.05	7.12	1,271.4	4.43	13.47	102.1	clear
purge	0829		9.74	0.37	9.25	6.98	1,254.5	0.85	31.47	-106.3	clear
			9.90	0.16							
				0.00			↓	↓	↓		
							data	in VM	sitn		
	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
sample	0844	~1	9.90	0.00	9.15	7.11	1,275.7	0.49	16.89	-160.9	clear

003

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion
Client:
Project Number:
Task #:
Start Date: 11/28/23 Time: 1204
Field Personnel: LCA SVK
Finish Date: Time: 1219

WELL INFORMATION

Well ID: 38
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 ml/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	8.65	1204	8.86	1219
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1204	0.0	8.65	NA	9.85	7.24	781.15	2.48	4.71	-70.3	clear
purge	1210	↓	8.86	0.21	11.00	7.20	784.88	1.10	161.59	-133.6	clear
	↓		↓	0.00	↓	↓	↓	↓	↓	↓	↓
				↓		↓	↓	↓			
						data in via	SITE				
						↓	↓	↓	↓	↓	↓
sample	1219	~1	8.86	0.00	11.56	7.15	768.24	0.72	*10.0	-152.7	clear

Hach turbidity reading: * 10.00 ↓ clear water

006 duplicate 007 (1224)

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion | Client:
Project Number: | Task #: | Start Date: 11/28/23 Time: 1002
Field Personnel: LCA SVK | Finish Date: Time: 1026

WELL INFORMATION

Well ID: 42
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	27.16	1002	27.41	1026
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: | Water Quality Probe Type and Serial #:

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1002	0.0	27.16	NA	7.85	7.64	769.76	4.67	13.7	-118.0	clear
purge	1008		27.41	0.25	8.34	7.59	854.92	2.70	26.5	-122.0	clear
				0.00					17.2		
									OVER.		
						data in VuSitu					
Sample	1026	~1	27.41	0.00	9.78	7.64	848.91	0.24	35.15	-183.4	clear

004 * USING HACH METER → aquatroll readings in VuSitu

↓

began reading overrange @ 12 min. mark?
followed stabilization on AT readings → water was clear

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion | Client:
Project Number: | Task #: | Start Date: 11/28 | Time: 1102
Field Personnel: LCA SK | Finish Date: | Time: 1117

WELL INFORMATION

Well ID: 43
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	17.28	1102	18.07	1117
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1102	0.0	17.28	NA	8.38	7.74	945.30	7.39	4.50	-106.2	clear
purge	1108		18.01	0.73	10.43	7.41	1,005.7	0.87	130.77	-130.4	clear
			18.07	0.06							
			18.07	0.00		data in vu	site				
sample	1117	~1	18.07	0.00	9.82	7.43	998.97	0.67	* 13.3	-152.1	clear

* MAX readings *
INITIAL 10.0
PURGE 17.3

9:00 LCA 25.4
12:00 LCA [redacted] 22.5
15:00 13.3

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion
Client: Vistra
Project Number:
Task #:
Start Date: 11/28/23 Time: 0806
Field Personnel: Michael Davis, Kyle Heimstead
Finish Date: 11/28/23 Time: 0914

WELL INFORMATION

Well ID: VER_103R
Casing ID: 2 Inches
Screen Interval: 155-165
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: QED MP50
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 170 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	N/A			
Groundwater	138.39	0756	142.55	0844
DNAPL	N/A			
Casing Base	N/A			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0819	0.47	141.43	-0.94	10.76	7.11	2,219.9	4.31	6.71*	230.1	Clear
	0824	0.69	141.71	-0.28		saved in Vusitu		File	5.21*	saved in Vusitu	
	0829	0.91	142.29	-0.58					2.95*		
	0834	1.13	142.19	+0.10					2.26*		
	0839	1.35	142.29	-0.10					1.87*		
	0844	1.57	142.55	-0.26					1.80*		

Sample collected 0915

*HACH measurement

Second page on back →

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: VERMILION
Client:
Project Number:
Task #:
Start Date: 11/28/2023 Time: 0806
Field Personnel: MICHAEL DAVIS / KYLE HELMSTEAD
Finish Date: 11/28/2023 Time: 09

WELL INFORMATION

Well ID: VER_103
Casing ID: 2 inches

EVENT TYPE

☐ Well Development
☐ Well Volume Approach Sampling
☒ Low-Flow / Low Stress Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PURGE 0849	0849	1.79	142.83	-0.26	10.35	7.13	2237.4	3.66	* 1.52	253.5	CLEAR
	0854	2.01	143.11	-0.28	SEE	VOSITO FILE			* 1.15		CLEAR
	0859	2.23	143.55	-0.44					* 1.00		CLEAR
	0804	2.45	143.84	-0.29					* 1.54		CLEAR
	0809	2.67	144.02	-0.38					* 0.55		CLEAR
	0914	2.89	144.19	-0.17	10.22	7.15	2229.4	2.67	* 0.70	226.0	CLEAR

NOTES (continued)

SAMPLE TIME = 0915

second page of VER_103

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

* HACH TURBIDITY METER - LAMOTTE 2020T

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion
Client:
Project Number:
Task #:
Start Date: 11/29/23 Time: 0958
Field Personnel: LCA SK
Finish Date: Time: 1007

WELL INFORMATION

Well ID: 02
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☐ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 ml/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	19.59	0958	20.20	1007
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0958	0.0	19.59	NA	11.65	7.99	935.08	0.94	4.87	-102.6	clear
purge	1004	↓	20.20	0.61	12.32	8.02	941.84	0.76	0.00	-114.4	clear
sample	1007	≈0.5	20.20	0.00	12.57	8.00	940.92	0.69	0.00	-117.6	clear
									*2.31		
									March		
					LCA 11/29						

0:00
6:00
9:00

* Hach turbidity readings *
initial 5.16
purge 3.02
9:00 2.31

* duplicate sample (10:12)

* purged for 9 mins before beginning test

* stability achieved 3:00-9:00 see data in vusitu

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion
Client:
Project Number:
Task #:
Start Date: 11/29/23 Time: 0749
Field Personnel: LCA SK
Finish Date: Time: 0828

WELL INFORMATION

Well ID: 03R
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 100 ml/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA	—	—	—
Groundwater	9.31	0749	9.38	0828
DNAPL	NA	—	—	—
Casing Base	NA	—	—	—

Water Level Serial #:

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0749	0.0	9.31	NA	11.66	7.41	1,330.1	0.79	117.56	-63.7	clear
purge	0754	↓	9.38	0.07	11.70	7.45	1,349.7	0.45	147.267	-105.0	clear
				0.00							
	↓		↓	↓	↓	↓	data in vu situ		↓	↓	↓
	0822				10.96	7.54	1,386.0	0.47	190.01	-127.0	clear
	0825	↓	↓	↓	10.94	7.54	1,390.0	0.41	155.44	-128.8	clear
sample	0828	~1	9.38	0.00	11.01	7.55	1,392.3	0.39	149.00	-130.3	clear

Hach turbidity readings
initial 35.2
purge 45.0
9:00 49.8
12:00 50.3
15:00 43.3
18:00 42.5
21:00 46.9
24:00 43.5
27:00 39.9 FINAL

*purged for 9 mins before beginning test

*disregard 12 min interval on test (15 min - 27 min mark) (low-flow cell issues on aquatroll, had to unplug)

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion
Client:
Project Number:
Task #:
Start Date: 11/29/23 Time: 0948
Field Personnel: LCA SK
Finish Date: Time: 0957

WELL INFORMATION

Well ID: OTR
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: peri pump
Tube/Pump Intake Depth:
Stabilized Pumping Rate: NA

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	16.31	0948	16.31	0957
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0948		16.31								
purge	0957										
							NA 11/29				

* NO sample taken → peri pump tubing clogs with iron bacteria.

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
VERMILION POWER PLANT, NORTH ASH POND (NAP) and OLD EAST ASH POND (OEAP)
VER-845-910-911

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion | Client:
Project Number: | Task #: | Start Date: 11/29/23 Time: 0842
Field Personnel: LCA SVK | Finish Date: Time: 0857

WELL INFORMATION

Well ID: JBR
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: ~~bladder~~ peri
Tube/Pump Intake Depth: 14ft
Stabilized Pumping Rate: 150 mL/min

DEPTH MEASUREMENTS

	INITIAL Depth FT BTOC	INITIAL Time (24-Hour)	FINAL Depth FT BTOC	FINAL Time (24-Hour)
LNAPL	NA			
Groundwater	15.07	0842	15.17	0857
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0842	0.0	15.07	NA	11.22	7.45	1,529.2	0.39	8.92	-106.2	clear
purge	0848	↓	15.17	0.10	11.70	7.85	1,525.0	0.26	3.07	-126.2	↓
	0851		↓	↓	11.55	7.98	1,523.2	0.21	0.00	-131.8	
	0854	↓			11.21	8.04	1,523.9	0.21	0.00	-134.8	↓
sample	0857	~0.5	15.17	0.00	11.42	8.10	1,519.3	0.20	0.00	-137.8	clear
									* 1.18 HACH		
					LCA 11/29						

* HACH turbidity readings *
initial 4.67
purge 2.13
9:00 1.97
12:00 1.40
15:00 1.18 *

* purged for 9 mins before beginning test

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
VERMILION POWER PLANT, NORTH ASH POND (NAP) and OLD EAST ASH POND (OEAP)
VER-845-910-911

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: VISTRA - Vermillion
Client:
Project Number:
Task #:
Start Date: 11/29/23 Time: 0910
Field Personnel: MICHAEL DAVIS / KYLE HEIMSTEAD
Finish Date: 11/29/23 Time: 1020

WELL INFORMATION

Well ID: VER-16A
Casing ID: 2 Inches
Screen Interval: 21.8-41.8
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: QED MP50 / Bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 120 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	N/A			
Groundwater	10.66	0910	13.97	0946
DNAPL	N/A			
Casing Base	N/A			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0928	0.35	13.20	2.54	10.01	7.69	1,407.8	2.53	* 11.4	-78.0	clear
purge	0934	0.45	13.31	0.11	9.94	7.66	1,317.8	2.71	* 7.35	-107.2	
	0937	0.55	13.55	0.24	10.77	7.65	1,352.2	0.70	* 5.56	-115.2	
	0940	0.65	13.70	0.15	10.84	7.65	1,328.8	0.52	* 5.37	-118.9	
	0943	0.75	13.86	0.16	10.86	7.65	1,316.3	0.45	* 3.88	-120.7	
	0946	0.85	13.97	0.11	10.86	7.66	1,313.5	0.44	* 4.09	-122.5	
(last)	~~0949~~										

Purged for 19 min prior to initial reading above. (0920-0939)

Sample Time: 0950

* HACH Reading

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vistra - Vermillion
Client:
Project Number:
Task #:
Start Date: 11/29/23 Time: 0735
Field Personnel: MICHAEL DAVIS / KYLE HEIMSTEAD
Finish Date: 11/29/23 Time: 0905

WELL INFORMATION

Well ID: VER_35D
Casing ID: 2 Inches
Screen Interval: 45-35
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: ~~QED MP56~~ MP US Environ. Peripump
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 120 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	N/A			
Groundwater	10.90	0735	14.81	0803
DNAPL	N/A			
Casing Base	N/A			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0748	0.16	12.16	1.26	10.07	7.25	5,491.8	3.23	*7.15	-13.6	clear
purge	0751	0.26	12.74	0.58	9.79	7.34	5,481.0	0.32	*4.21	-88.7	
	0754	0.36	13.07	0.33	9.95	7.34	5,514.8	0.66	*5.32	-104.1	
	0757	0.46	13.70	0.63	9.96	7.34	5,501.9	0.46	*8.41	-118.5	
	0800	0.56	14.28	0.58	10.04	7.34	5,486.3	0.46	*4.76	-123.3	
	0803	0.66	14.81	0.53	10.07	7.34	5,487.0	0.46	*6.99	-126.7	
(FD)	~~0806~~										
(FD)	~~0807~~										

Purged for 5 minutes prior to initial reading above. (no dedicated pump)

Sample Time: 0807 FD 05/2

* HACH Reading

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion | Client:
Project Number: | Task #: | Start Date: 11/29/23 Time: 1048
Field Personnel: LCA SK | Finish Date: 11/29/23 Time: 1057

WELL INFORMATION

Well ID: 40
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: peri pump
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 150 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	14.96	1048	15.03	1057
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: | Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1048	0.0	14.96	NA	12.50	6.60	4,346.8	0.25	5.22	-85.8	clear
purge	1054	↓	↓	↓	12.20	6.57	4333.6	0.20	9.66	-90.7	clear
sample	1057	~0.5	15.03	0.07	11.89	6.58	4328.5	0.18	12.22	-91.7	clear
									*6.20 HACH		

11/29

* Hach turbidity readings *
initial 5.50
purge 5.94
9:00 6.20 *

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion
Client:
Project Number:
Task #:
Start Date: 11/29/23 Time: 1201
Field Personnel: LCA SUK
Finish Date: Time: 1210

WELL INFORMATION

Well ID: 70S
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	15.57	1201	15.68	1210
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1201	0.0	15.57	NA	12.21	7.15	1,538.8	0.10	19.04	-46.3	clear
purge	1207	↓	↓	↓	12.19	7.16	1,541.6	0.10	0.23	-41.3	clear
Sample	1210	~0.5	15.68	0.11	12.27	7.16	1,545.2	0.07	1.06	-39.2	clear
									*2.88 HACH		
						LCA 11/29					

* Hach turbidity readings *
INITIAL 6.50
PURGE 3.17
9:00 2.88

* purged for 9 mins before beginning test

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion | Client:
Project Number: | Task #: | Start Date: 11/29/23 Time: 1234
Field Personnel: LCA SK | Finish Date: 11/29/23 Time: 1307

WELL INFORMATION

Well ID: 70D
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 200 mL/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	NA			
Groundwater	38.95	1234	46.39	1307
DNAPL	NA			
Casing Base	NA			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: NA feet
1 Well Volume: Gallons | 3 Well Volumes: Gallons
5 Well Volumes: Gallons | 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: | Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1234	0.0	38.95	NA	11.79	7.16	3,637.5	0.63	72.44	-48.7	clear
purge	1240	↓	39.57	↓	11.84	7.07	3,503.8	0.41	26.65	-36.5	clear
	1243		40.19		↓	↓	↓	↓	↓	↓	↓
	1246		40.81								
	1249		41.43				data in vm sitn				
	1252		42.05								
	1255		42.67								
	1258		43.29	↓	↓	↓	↓	↓	↓	↓	↓
	1301	↓	45.17		12.02	6.98	2882.6	2.17	38.4	-10.5	clear

* Hach turbidity readings *
INITIAL 23.9
PURGE 1 22.4 LCA
9:00 9.88
12:00 6.67
15:00 11.69
18:00 11.00
21:00 12.00
24:00 14.40
27:00 11.20
30:00 11.62
33:00

* purged for 9 mins before beginning test

continue to second page →

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: _____ Client: _____

Project Number: _____ Task #: _____ Start Date: _____ Time: _____

Field Personnel: _____ Finish Date: _____ Time: _____

WELL INFORMATION

Well ID: 70D

Casing ID: _____ inches

EVENT TYPE

☐ Well Development ☐ Low-Flow / Low Stress Sampling

☐ Well Volume Approach Sampling ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	1304	↓	46.01	↓	12.06	6.98	[illegible]	2.39	42.15	-8.2	clear
sample	1307	~1	46.39	7.44	12.02	6.98	2858.2	2.67	51.41	-5.7	clear
					LCA 11/29						

NOTES (continued)

Second payout 70D

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: VISTRA - Vermillion
Client:
Project Number:
Task #:
Start Date: 11/29/23 Time: 0958
Field Personnel: MICHAEL DAVIS / KYLE HEIMSTEAD
Finish Date: Time:

WELL INFORMATION

Well ID: VER_71D
Casing ID: 2 Inches
Screen Interval: ~~61-66~~ 30-40
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: QED MP50 / Bladder
Tube/Pump Intake Depth: 100
Stabilized Pumping Rate: ~~170~~ 150 ml/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	N/A			
Groundwater	39.65	0958	40.56+	1034
DNAPL	N/A			
Casing Base	N/A			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1031	0.31	40.47	0.82	11.93	7.05	3,953.7	3.91	*10.26	33.0	clear
purge	1034	0.41	40.56+	+	11.45	7.03	3,993.3	1.44	*12.40	34.9	
	1037	0.51	+	+	11.40	7.03	4,001.4	1.00	*13.7	37.1	
	1040	0.59	+	+	11.22	7.04	4,005.6	0.84	*12.3	38.7	
	1043	0.67	+	+	11.30	7.05	3999.7	0.72	*10.19	40.3	
	1046	0.75	+	+	11.17	7.07	3,999.5	0.63	* 6.09	41.3	
	1049	0.83	+	+	11.17	7.08	3,997.0	0.57	* 4.26	42.2	
	1052	0.91	+	+	11.36	7.01	3,994.9	0.55	* 3.88	43.1	

Purged 9 min prior to initial reading above. (1022-1031)
Purge rate lowered to 100 ml/min due to drawdown at 1037
Sample time: 1055 - once filled. -prior to well going dry Returned @ 1210 to fill the rest

* HACH measurement
+ Top of pump

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: VISTRA - Vermillion
Client:
Project Number:
Task #:
Start Date: 11/29/23 Time: 1137
Field Personnel: MICHAEL DAVIS / KYLE HEIMSTEAD
Finish Date: 11/29/23 Time: 1215

WELL INFORMATION

Well ID: VER-NED1
Casing ID: 2 Inches
Screen Interval: 532 - 542 MD
Borehole Diameter: ~15 3/4 Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #:
Tube/Pump Intake Depth:
Stabilized Pumping Rate: 300 mL / min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL	N/A			
Groundwater	4.76	1137		
DNAPL	N/A			
Casing Base	N/A			

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1149	0.71	5.10	0.34	14.83	7.99	2,244.0	0.23	*4.46	-144.9	clear
purge	1152	0.95	5.11	0.01	14.86	8.01	2,290.3	0.14	*3.84	-159.5	
	1155	1.19	5.15	0.04	14.86	8.02	2,341.7	0.12	*3.48	-169.0	
	1158	1.43	5.15	0.00	14.85	8.03	2,374.6	0.11	*1.89	-174.8	
	1201	1.67	5.15	0.00	14.88	8.04	2,400.7	0.10	*2.19	-178.0	

Purged 4 min prior to initial reading above. (1140-1149)

Sample time: 1205

* HACH measurement

Calibration Report

Instrument	Aqua TROLL 600 Vented
Serial Number	454859
Created	11/28/2023

Sensor: Conductivity

Serial Number	983484
Last Calibrated	11/28/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.937
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,227.7 µS/cm
Specific Conductivity	7,903.8 µS/cm

Post Measurement

Actual Conductivity	6,303.5 µS/cm
Specific Conductivity	8,000.0 µS/cm

Sensor: RDO

Serial Number	1071837
Last Calibrated	11/20/2023

Calibration Details

Slope	1.162076
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.78 mg/L
Pre Measurement	100.10 %Sat
Post Measurement	100.00 %Sat
Temperature	14.01 °C
Barometric Pressure	1,004.0 mbar

Sensor: pH/ORP

Serial Number	967640
Last Calibrated	11/28/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.03 pH
pH mV	0.0 mV
Temperature	13.90 °C

Pre Measurement

pH	6.99 pH
pH mV	-0.1 mV

Post Measurement

pH	7.03 pH
pH mV	0.0 mV

Slope and Offset 1

Slope	-56.96 mV/pH
Offset	1.7 mV

ORP

ORP Solution	Quick-Cal
Offset	15.9 mV
Temperature	13.90 °C
Pre Measurement	238.6 mV
Post Measurement	240.3 mV

Sensor	**Turbidity**
Serial Number	1018036
Last Calibrated	11/16/2023

Calibration Details

Slope	1.097777
Offset	0.03 NTU

Calibration Point 1

Pre Measurement	0.00 NTU
Post Measurement	0.00 NTU

Calibration Point 2

Pre Measurement	112.30 NTU
Post Measurement	124.00 NTU

Sensor	**Barometric Pressure**
Serial Number	454859
Last Calibrated	11/16/2023

Calibration Details

Offset	0.69 mm Hg
Pre Measurement	14.33 psi
Post Measurement	14.32 psi

Sensor	**Pressure**
Serial Number	760182
Last Calibrated	11/16/2023

Calibration Details

Zero Offset	-0.01 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi
Pre Measurement	0.01 psi
Post Measurement	0.00 psi

Calibration Report

Instrument	Aqua TROLL 600 Vented
Serial Number	454859
Created	11/29/2023

Sensor: Conductivity

Serial Number	983484
Last Calibrated	11/29/2023

Calibration Details

TDS Conversion Factor (ppm)	0.65
Cell Constant	0.941
Reference Temperature	25.00 °C

Pre Measurement

Actual Conductivity	6,724.9 µS/cm
Specific Conductivity	7,962.4 µS/cm

Post Measurement

Actual Conductivity	6,756.6 µS/cm
Specific Conductivity	8,000.0 µS/cm

Sensor: RDO

Serial Number	1071837
Last Calibrated	11/20/2023

Calibration Details

Slope	1.162076
Offset	0.00 mg/L

Calibration point 100%

Concentration	8.78 mg/L
Pre Measurement	100.10 %Sat
Post Measurement	100.00 %Sat
Temperature	14.01 °C
Barometric Pressure	1,004.0 mbar

Sensor: pH/ORP

Serial Number	967640
Last Calibrated	11/29/2023

Calibration Details

Calibration Point 1

pH of Buffer	7.02 pH
pH mV	0.6 mV
Temperature	16.86 °C

Pre Measurement

pH	7.02 pH
pH mV	0.5 mV

Post Measurement

pH	7.02 pH
pH mV	0.5 mV

Slope and Offset 1

Slope	-57.55 mV/pH
Offset	1.7 mV

ORP

ORP Solution	Quick-Cal
Offset	17.1 mV
Temperature	16.86 °C
Pre Measurement	234.6 mV
Post Measurement	235.8 mV

Sensor	**Turbidity**
Serial Number	1018036
Last Calibrated	11/16/2023

Calibration Details

Slope	1.097777
Offset	0.03 NTU

Calibration Point 1

Pre Measurement	0.00 NTU
Post Measurement	0.00 NTU

Calibration Point 2

Pre Measurement	112.30 NTU
Post Measurement	124.00 NTU

Sensor	**Barometric Pressure**
Serial Number	454859
Last Calibrated	11/16/2023

Calibration Details

Offset	0.69 mm Hg
Pre Measurement	14.33 psi
Post Measurement	14.32 psi

Sensor	**Pressure**
Serial Number	760182
Last Calibrated	11/16/2023

Calibration Details

Zero Offset	-0.01 psi
Reference Depth	0.00 ft
Reference Offset	0.00 psi
Pre Measurement	0.01 psi
Post Measurement	0.00 psi

ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701

Generated 01/09/24 11:20:05

JOB DESCRIPTION

VER-23Q4
VER_845_910-911_RAD

JOB NUMBER

500-243025-4

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

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Authorization

Generated
01/09/24 11:20:05

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Table of Contents

Case Narrative

Client: Vistra Energy Corp
Project: VER-23Q4

Job ID: 500-243025-4

Job ID: 500-243025-4 — Eurofins Chicago

Job Narrative
500-243025-4

Receipt
The samples were received on 11/28/23 11:23. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 12 coolers at receipt time were 1.6º C, 2.3º C, 2.4º C, 2.5º C, 2.6º C, 2.8º C, 3.2º C, 3.4º C, 3.7º C, 4.2º C, 5.2º C and 5.7º C.

RAD
Method 904.0: Radium-228 batch 639338
The detection goal was not met for the following sample. Sample was prepped at a reduced volume due to the presence of matrix interferences: VER-003R (500-243025-19). Analytical results are reported with the detection limit achieved.

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

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-005 — Lab Sample ID: 500-243025-1

No Detections.

Client Sample ID: VER-041 — Lab Sample ID: 500-243025-2

No Detections.

Client Sample ID: VER-101& — Lab Sample ID: 500-243025-3

No Detections.

Client Sample ID: VER-004 — Lab Sample ID: 500-243025-4

No Detections.

Client Sample ID: VER-017 — Lab Sample ID: 500-243025-6

No Detections.

Client Sample ID: VER-020 — Lab Sample ID: 500-243025-7

No Detections.

Client Sample ID: VER-021 — Lab Sample ID: 500-243025-8

No Detections.

Client Sample ID: VER-034 — Lab Sample ID: 500-243025-10

No Detections.

Client Sample ID: VER-036 — Lab Sample ID: 500-243025-11

No Detections.

Client Sample ID: VER-037 — Lab Sample ID: 500-243025-12

No Detections.

Client Sample ID: VER-038 — Lab Sample ID: 500-243025-13

No Detections.

Client Sample ID: VER-042 — Lab Sample ID: 500-243025-14

No Detections.

Client Sample ID: VER-043 — Lab Sample ID: 500-243025-15

No Detections.

Client Sample ID: VER-103& — Lab Sample ID: 500-243025-16

No Detections.

Client Sample ID: VER-038_FD — Lab Sample ID: 500-243025-17

No Detections.

Client Sample ID: VER-002 — Lab Sample ID: 500-243025-18

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-003R — Lab Sample ID: 500-243025-19

No Detections.

Client Sample ID: VER-008R — Lab Sample ID: 500-243025-20

No Detections.

Client Sample ID: VER-040 — Lab Sample ID: 500-243025-23

No Detections.

Client Sample ID: VER-002_FD — Lab Sample ID: 500-243025-29

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency

None = None

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

Laboratory References:

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

Sample Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-243025-1	VER-005	Water	11/27/23 14:34	11/28/23 11:23
500-243025-2	VER-041	Water	11/27/23 15:27	11/28/23 11:23
500-243025-3	VER-101&	Water	11/27/23 15:50	11/28/23 11:23
500-243025-4	VER-004	Water	11/28/23 13:15	11/29/23 11:15
500-243025-6	VER-017	Water	11/28/23 15:00	11/29/23 11:15
500-243025-7	VER-020	Water	11/28/23 14:28	11/29/23 11:15
500-243025-8	VER-021	Water	11/28/23 16:03	11/29/23 11:15
500-243025-10	VER-034	Water	11/28/23 15:09	11/29/23 11:15
500-243025-11	VER-036	Water	11/28/23 15:48	11/29/23 11:15
500-243025-12	VER-037	Water	11/28/23 08:44	11/29/23 11:15
500-243025-13	VER-038	Water	11/28/23 12:19	11/29/23 11:15
500-243025-14	VER-042	Water	11/28/23 10:26	11/29/23 11:15
500-243025-15	VER-043	Water	11/28/23 11:17	11/29/23 11:15
500-243025-16	VER-103&	Water	11/28/23 09:15	11/29/23 11:15
500-243025-17	VER-038_FD	Water	11/28/23 12:24	11/29/23 11:15
500-243025-18	VER-002	Water	11/29/23 10:07	11/30/23 10:09
500-243025-19	VER-003R	Water	11/29/23 08:28	11/30/23 10:09
500-243025-20	VER-008R	Water	11/29/23 08:57	11/30/23 10:09
500-243025-23	VER-040	Water	11/29/23 10:57	11/30/23 10:09
500-243025-29	VER-002_FD	Water	11/29/23 10:12	11/30/23 10:09

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-005

Date Collected: 11/27/23 14:34
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0896	U	0.0903	0.0907	1.00	0.143	pCi/L	11/30/23 09:53	12/27/23 14:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*30 - 110*	*11/30/23 09:53*	*12/27/23 14:34*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.513**		0.321	0.324	1.00	0.463	pCi/L	11/30/23 10:01	12/22/23 11:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*30 - 110*	*11/30/23 10:01*	*12/22/23 11:15*	*1*
Y Carrier	*87.1*		*30 - 110*	*11/30/23 10:01*	*12/22/23 11:15*	*1*

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	**0.602**		0.333	0.336	5.00	0.463	pCi/L		01/02/24 16:47	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-041
Date Collected: 11/27/23 15:27
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-2
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.375**		0.159	0.162	1.00	0.175	pCi/L	11/30/23 09:53	12/27/23 14:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.3*		*30 - 110*	*11/30/23 09:53*	*12/27/23 14:34*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.539	U	0.429	0.432	1.00	0.661	pCi/L	11/30/23 10:01	12/22/23 11:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.3*		*30 - 110*	*11/30/23 10:01*	*12/22/23 11:16*	*1*
Y Carrier	*86.7*		*30 - 110*	*11/30/23 10:01*	*12/22/23 11:16*	*1*

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	**0.914**		0.458	0.461	5.00	0.661	pCi/L		01/02/24 16:47	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-101&

Date Collected: 11/27/23 15:50
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-3

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125	U	0.148	0.148	1.00	0.243	pCi/L	11/30/23 09:53	12/27/23 14:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*30 - 110*	*11/30/23 09:53*	*12/27/23 14:35*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.832**		0.522	0.527	1.00	0.780	pCi/L	11/30/23 10:01	12/22/23 11:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*30 - 110*	*11/30/23 10:01*	*12/22/23 11:16*	*1*
Y Carrier	*87.9*		*30 - 110*	*11/30/23 10:01*	*12/22/23 11:16*	*1*

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	**0.957**		0.543	0.547	5.00	0.780	pCi/L		01/02/24 16:47	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-004

Date Collected: 11/28/23 13:15
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-4

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.429		0.215	0.218	1.00	0.258	pCi/L	12/01/23 09:46	12/29/23 09:18	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*30 - 110*	*12/01/23 09:46*	*12/29/23 09:18*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.68		0.556	0.577	1.00	0.669	pCi/L	12/01/23 09:56	12/27/23 11:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.5*		*30 - 110*	*12/01/23 09:56*	*12/27/23 11:34*	*1*
Y Carrier	*82.2*		*30 - 110*	*12/01/23 09:56*	*12/27/23 11:34*	*1*

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	2.10		0.596	0.617	5.00	0.669	pCi/L		01/02/24 16:47	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-017

Date Collected: 11/28/23 15:00
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-6

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.513**		0.181	0.187	1.00	0.149	pCi/L	12/01/23 09:57	01/02/24 14:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.1*		*30 - 110*	*12/01/23 09:57*	*01/02/24 14:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.468	U	0.445	0.448	1.00	0.708	pCi/L	12/01/23 10:01	12/29/23 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.1*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:00*	*1*
Y Carrier	*84.1*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:00*	*1*

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	**0.981**		0.480	0.485	5.00	0.708	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-020

Date Collected: 11/28/23 14:28
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-7

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0991	U	0.0921	0.0925	1.00	0.142	pCi/L	12/01/23 09:57	01/02/24 14:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.0*		*30 - 110*	*12/01/23 09:57*	*01/02/24 14:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.953**		0.376	0.386	1.00	0.466	pCi/L	12/01/23 10:01	12/29/23 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.0*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:00*	*1*
Y Carrier	*81.1*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:00*	*1*

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	**1.05**		0.387	0.397	5.00	0.466	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-021
Date Collected: 11/28/23 16:03
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-8
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.171	U	0.130	0.131	1.00	0.184	pCi/L	12/01/23 09:57	01/02/24 14:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.1*		*30 - 110*	*12/01/23 09:57*	*01/02/24 14:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.978**		0.527	0.534	1.00	0.748	pCi/L	12/01/23 10:01	12/29/23 12:00	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.1*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:00*	*1*
Y Carrier	*86.4*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:00*	*1*

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	**1.15**		0.543	0.550	5.00	0.748	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-034

Date Collected: 11/28/23 15:09
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-10

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.665		0.366	0.371	1.00	0.423	pCi/L	12/01/23 09:57	01/02/24 14:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*43.0*		*30 - 110*	*12/01/23 09:57*	*01/02/24 14:26*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.41	G	1.54	1.56	1.00	2.27	pCi/L	12/01/23 10:01	12/29/23 12:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*43.0*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:01*	*1*
Y Carrier	*80.4*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:01*	*1*

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	3.07		1.58	1.60	5.00	2.27	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-036

Date Collected: 11/28/23 15:48
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-11

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.591		0.261	0.266	1.00	0.277	pCi/L	12/01/23 09:57	01/02/24 14:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.4*		*30 - 110*	*12/01/23 09:57*	*01/02/24 14:26*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	2.62	G	0.895	0.927	1.00	1.04	pCi/L	12/01/23 10:01	12/29/23 12:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.4*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:01*	*1*
Y Carrier	*86.4*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:01*	*1*

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	3.21		0.932	0.964	5.00	1.04	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-037
Date Collected: 11/28/23 08:44
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-12
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.545		0.201	0.207	1.00	0.210	pCi/L	12/01/23 09:57	01/02/24 14:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.1*		*30 - 110*	*12/01/23 09:57*	*01/02/24 14:26*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.26		0.574	0.586	1.00	0.782	pCi/L	12/01/23 10:01	12/29/23 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.1*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*
Y Carrier	*85.2*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*

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	1.81		0.608	0.621	5.00	0.782	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-038

Date Collected: 11/28/23 12:19
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-13

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.459		0.179	0.183	1.00	0.184	pCi/L	12/01/23 09:57	01/02/24 14:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*30 - 110*	*12/01/23 09:57*	*01/02/24 14:26*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.45		0.605	0.619	1.00	0.809	pCi/L	12/01/23 10:01	12/29/23 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.5*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*
Y Carrier	*81.9*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*

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	1.91		0.631	0.645	5.00	0.809	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-042
Date Collected: 11/28/23 10:26
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-14
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.175	U	0.148	0.149	1.00	0.224	pCi/L	12/01/23 09:57	01/02/24 14:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.6*		*30 - 110*	*12/01/23 09:57*	*01/02/24 14:34*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.518	U	0.450	0.452	1.00	0.703	pCi/L	12/01/23 10:01	12/29/23 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.6*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*
Y Carrier	*79.3*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*

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	0.693	U	0.474	0.476	5.00	0.703	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-043

Date Collected: 11/28/23 11:17
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-15

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.479		0.259	0.262	1.00	0.346	pCi/L	12/01/23 09:57	01/02/24 14:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*63.7*		*30 - 110*	*12/01/23 09:57*	*01/02/24 14:34*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.04	G	0.688	0.694	1.00	1.02	pCi/L	12/01/23 10:01	12/29/23 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*63.7*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*
Y Carrier	*83.0*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*

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	1.52		0.735	0.742	5.00	1.02	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-103&

Date Collected: 11/28/23 09:15
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-16

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0684	U	0.105	0.105	1.00	0.180	pCi/L	12/01/23 09:57	01/02/24 17:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*12/01/23 09:57*	*01/02/24 17:05*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.656**		0.382	0.386	1.00	0.547	pCi/L	12/01/23 10:01	12/29/23 12:02	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*
Y Carrier	*83.4*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*

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	**0.724**		0.396	0.400	5.00	0.547	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-038_FD
Date Collected: 11/28/23 12:24
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-17
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.514**		0.197	0.203	1.00	0.222	pCi/L	12/01/23 09:57	01/02/24 17:05	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*12/01/23 09:57*	*01/02/24 17:05*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.633	U	0.481	0.485	1.00	0.743	pCi/L	12/01/23 10:01	12/29/23 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:06*	*1*
Y Carrier	*88.6*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:06*	*1*

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	**1.15**		0.520	0.526	5.00	0.743	pCi/L		01/04/24 10:48	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-002

Date Collected: 11/29/23 10:07
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-18

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.496		0.230	0.234	1.00	0.263	pCi/L	12/04/23 09:27	12/29/23 22:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*12/04/23 09:27*	*12/29/23 22:09*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.150	U	0.382	0.382	1.00	0.673	pCi/L	12/04/23 09:32	12/28/23 11:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*12/04/23 09:32*	*12/28/23 11:40*	*1*
Y Carrier	*77.4*		*30 - 110*	*12/04/23 09:32*	*12/28/23 11:40*	*1*

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	0.646	U	0.446	0.448	5.00	0.673	pCi/L		01/02/24 16:47	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-003R
Date Collected: 11/29/23 08:28
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-19
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.259	U	0.412	0.413	1.00	0.711	pCi/L	12/04/23 09:27	12/29/23 22:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*60.4*		*30 - 110*	*12/04/23 09:27*	*12/29/23 22:09*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.37	U G	1.07	1.08	1.00	1.65	pCi/L	12/04/23 09:32	12/28/23 11:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*60.4*		*30 - 110*	*12/04/23 09:32*	*12/28/23 11:40*	*1*
Y Carrier	*81.9*		*30 - 110*	*12/04/23 09:32*	*12/28/23 11:40*	*1*

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	1.63	U	1.15	1.16	5.00	1.65	pCi/L		01/02/24 16:47	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-008R

Date Collected: 11/29/23 08:57
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-20

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.294	U	0.211	0.212	1.00	0.309	pCi/L	12/04/23 09:27	12/29/23 22:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*12/04/23 09:27*	*12/29/23 22:09*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.640**		0.412	0.416	1.00	0.613	pCi/L	12/04/23 09:32	12/28/23 11:40	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*12/04/23 09:32*	*12/28/23 11:40*	*1*
Y Carrier	*75.5*		*30 - 110*	*12/04/23 09:32*	*12/28/23 11:40*	*1*

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	**0.935**		0.463	0.467	5.00	0.613	pCi/L		01/02/24 16:47	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-040

Date Collected: 11/29/23 10:57
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-23

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.290		0.164	0.166	1.00	0.220	pCi/L	12/04/23 09:27	12/29/23 22:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*12/04/23 09:27*	*12/29/23 22:06*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.654		0.380	0.384	1.00	0.555	pCi/L	12/04/23 09:32	12/28/23 11:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*12/04/23 09:32*	*12/28/23 11:41*	*1*
Y Carrier	*76.3*		*30 - 110*	*12/04/23 09:32*	*12/28/23 11:41*	*1*

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	0.943		0.414	0.418	5.00	0.555	pCi/L		01/02/24 16:47	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-002_FD

Date Collected: 11/29/23 10:12
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-29

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.429		0.164	0.168	1.00	0.149	pCi/L	12/04/23 09:21	01/02/24 21:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*12/04/23 09:21*	*01/02/24 21:16*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.728		0.442	0.447	1.00	0.630	pCi/L	12/04/23 09:26	12/29/23 11:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.3*		*30 - 110*	*12/04/23 09:26*	*12/29/23 11:57*	*1*
Y Carrier	*85.2*		*30 - 110*	*12/04/23 09:26*	*12/29/23 11:57*	*1*

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		0.471	0.478	5.00	0.630	pCi/L		01/03/24 16:36	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Rad

Prep Batch: 638914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total/NA	Water	PrecSep-21	
500-243025-2	VER-041	Total/NA	Water	PrecSep-21	
500-243025-3	VER-101&	Total/NA	Water	PrecSep-21	
MB 160-638914/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-638914/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 638915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-1	VER-005	Total/NA	Water	PrecSep_0	
500-243025-2	VER-041	Total/NA	Water	PrecSep_0	
500-243025-3	VER-101&	Total/NA	Water	PrecSep_0	
MB 160-638915/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-638915/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 639124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-4	VER-004	Total/NA	Water	PrecSep-21	
MB 160-639124/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-639124/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-243025-4 MS	VER-004_MS	Total/NA	Water	PrecSep-21	
500-243025-4 MSD	VER-004_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 639126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-4	VER-004	Total/NA	Water	PrecSep_0	
MB 160-639126/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-639126/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-243025-4 MS	VER-004_MS	Total/NA	Water	PrecSep_0	
500-243025-4 MSD	VER-004_MSD	Total/NA	Water	PrecSep_0	

Prep Batch: 639127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-6	VER-017	Total/NA	Water	PrecSep-21	
500-243025-7	VER-020	Total/NA	Water	PrecSep-21	
500-243025-8	VER-021	Total/NA	Water	PrecSep-21	
500-243025-10	VER-034	Total/NA	Water	PrecSep-21	
500-243025-11	VER-036	Total/NA	Water	PrecSep-21	
500-243025-12	VER-037	Total/NA	Water	PrecSep-21	
500-243025-13	VER-038	Total/NA	Water	PrecSep-21	
500-243025-14	VER-042	Total/NA	Water	PrecSep-21	
500-243025-15	VER-043	Total/NA	Water	PrecSep-21	
500-243025-16	VER-103&	Total/NA	Water	PrecSep-21	
500-243025-17	VER-038_FD	Total/NA	Water	PrecSep-21	
MB 160-639127/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-639127/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 639128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-6	VER-017	Total/NA	Water	PrecSep_0	
500-243025-7	VER-020	Total/NA	Water	PrecSep_0	
500-243025-8	VER-021	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Rad (Continued)

Prep Batch: 639128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-10	VER-034	Total/NA	Water	PrecSep_0	
500-243025-11	VER-036	Total/NA	Water	PrecSep_0	
500-243025-12	VER-037	Total/NA	Water	PrecSep_0	
500-243025-13	VER-038	Total/NA	Water	PrecSep_0	
500-243025-14	VER-042	Total/NA	Water	PrecSep_0	
500-243025-15	VER-043	Total/NA	Water	PrecSep_0	
500-243025-16	VER-103&	Total/NA	Water	PrecSep_0	
500-243025-17	VER-038_FD	Total/NA	Water	PrecSep_0	
MB 160-639128/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-639128/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 639335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-29	VER-002_FD	Total/NA	Water	PrecSep-21	
MB 160-639335/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-639335/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 639336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-29	VER-002_FD	Total/NA	Water	PrecSep_0	

Prep Batch: 639337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-18	VER-002	Total/NA	Water	PrecSep-21	
500-243025-19	VER-003R	Total/NA	Water	PrecSep-21	
500-243025-20	VER-008R	Total/NA	Water	PrecSep-21	
500-243025-23	VER-040	Total/NA	Water	PrecSep-21	
MB 160-639337/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-639337/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 639338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-243025-18	VER-002	Total/NA	Water	PrecSep_0	
500-243025-19	VER-003R	Total/NA	Water	PrecSep_0	
500-243025-20	VER-008R	Total/NA	Water	PrecSep_0	
500-243025-23	VER-040	Total/NA	Water	PrecSep_0	
MB 160-639338/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-639338/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-638914/1-A
Matrix: Water
Analysis Batch: 642137

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 638914

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1170	U	0.0882	0.0889	1.00	0.125	pCi/L	11/30/23 09:53	12/27/23 09:48	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*11/30/23 09:53*	*12/27/23 09:48*	*1*

Lab Sample ID: LCS 160-638914/2-A
Matrix: Water
Analysis Batch: 642353

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638914

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.50		1.11	1.00	0.120	pCi/L	93	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*99.5*		*30 - 110*

Lab Sample ID: MB 160-639124/1-A
Matrix: Water
Analysis Batch: 642235

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639124

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0000	U	0.0735	0.0735	1.00	0.168	pCi/L	12/01/23 09:46	12/28/23 17:05	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*12/01/23 09:46*	*12/28/23 17:05*	*1*

Lab Sample ID: LCS 160-639124/2-A
Matrix: Water
Analysis Batch: 642706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639124

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.05		1.16	1.00	0.111	pCi/L	98	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.3*		*30 - 110*

Lab Sample ID: 500-243025-4 MS
Matrix: Water
Analysis Batch: 642534

Client Sample ID: VER-004_MS
Prep Type: Total/NA
Prep Batch: 639124

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.429		15.3	13.14		1.54	1.00	0.229	pCi/L	83	60 - 140		

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 500-243025-4 MS
Matrix: Water
Analysis Batch: 642534

Client Sample ID: VER-004_MS
Prep Type: Total/NA
Prep Batch: 639124

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	91.3		30 - 110

Lab Sample ID: 500-243025-4 MSD
Matrix: Water
Analysis Batch: 642534

Client Sample ID: VER-004_MSD
Prep Type: Total/NA
Prep Batch: 639124

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	0.429		15.1	15.33		1.78	1.00	0.296	pCi/L	98	60 - 140	0.66	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	80.8		30 - 110

Lab Sample ID: MB 160-639127/1-A
Matrix: Water
Analysis Batch: 642706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639127

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1912		0.103	0.104	1.00	0.124	pCi/L	12/01/23 09:57	01/02/24 14:23	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.8		30 - 110	12/01/23 09:57	01/02/24 14:23	1

Lab Sample ID: LCS 160-639127/2-A
Matrix: Water
Analysis Batch: 642706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639127

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.13		1.19	1.00	0.143	pCi/L	98	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	97.5		30 - 110

Lab Sample ID: MB 160-639335/1-A
Matrix: Water
Analysis Batch: 642720

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639335

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.006557	U	0.0899	0.0899	1.00	0.174	pCi/L	12/04/23 09:21	01/02/24 21:18	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	103		30 - 110	12/04/23 09:21	01/02/24 21:18	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-639335/2-A
Matrix: Water
Analysis Batch: 642706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639335

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.663		1.05	1.00	0.114	pCi/L	85	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*103*		*30 - 110*

Lab Sample ID: MB 160-639337/1-A
Matrix: Water
Analysis Batch: 642534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639337

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04475	U	0.116	0.116	1.00	0.215	pCi/L	12/04/23 09:27	12/29/23 16:53	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*12/04/23 09:27*	*12/29/23 16:53*	*1*

Lab Sample ID: LCS 160-639337/2-A
Matrix: Water
Analysis Batch: 642534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639337

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.72		1.27	1.00	0.199	pCi/L	95	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.8*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-638915/1-A
Matrix: Water
Analysis Batch: 641882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 638915

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5367		0.358	0.361	1.00	0.530	pCi/L	11/30/23 10:01	12/22/23 11:07	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*11/30/23 10:01*	*12/22/23 11:07*	*1*
Y Carrier	*81.5*		*30 - 110*	*11/30/23 10:01*	*12/22/23 11:07*	*1*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-638915/2-A
Matrix: Water
Analysis Batch: 641882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638915

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.38	8.483		1.17	1.00	0.498	pCi/L	90	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*99.5*		*30 - 110*
Y Carrier	*81.9*		*30 - 110*

Lab Sample ID: MB 160-639126/1-A
Matrix: Water
Analysis Batch: 641942

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 639126

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4931	U	0.350	0.353	1.00	0.529	pCi/L	12/01/23 09:56	12/27/23 11:29	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*12/01/23 09:56*	*12/27/23 11:29*	*1*
Y Carrier	*81.5*		*30 - 110*	*12/01/23 09:56*	*12/27/23 11:29*	*1*

Lab Sample ID: LCS 160-639126/2-A
Matrix: Water
Analysis Batch: 641942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639126

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.36	10.57		1.37	1.00	0.447	pCi/L	113	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.3*		*30 - 110*
Y Carrier	*81.9*		*30 - 110*

Lab Sample ID: 500-243025-4 MS
Matrix: Water
Analysis Batch: 642137

Client Sample ID: VER-004_MS
Prep Type: Total/NA
Prep Batch: 639126

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	1.68		12.6	14.61		1.86	1.00	0.697	pCi/L	102	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*91.3*		*30 - 110*
Y Carrier	*90.8*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-243025-4 MSD — **Client Sample ID: VER-004_MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 642137 — **Prep Batch: 639126**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	1.68		12.5	15.43		2.00	1.00	0.751	pCi/L	110	60 - 140	0.21	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*80.8*		*30 - 110*
Y Carrier	*88.6*		*30 - 110*

Lab Sample ID: MB 160-639128/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 642534 — **Prep Batch: 639128**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.01899	U	0.265	0.265	1.00	0.495	pCi/L	12/01/23 10:01	12/29/23 12:02	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.8*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*
Y Carrier	*83.0*		*30 - 110*	*12/01/23 10:01*	*12/29/23 12:02*	*1*

Lab Sample ID: LCS 160-639128/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 642534 — **Prep Batch: 639128**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.36	10.54		1.37	1.00	0.600	pCi/L	113	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*97.5*		*30 - 110*
Y Carrier	*86.4*		*30 - 110*

Lab Sample ID: MB 160-639338/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 642363 — **Prep Batch: 639338**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.08165	U	0.230	0.230	1.00	0.464	pCi/L	12/04/23 09:32	12/28/23 11:41	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*12/04/23 09:32*	*12/28/23 11:41*	*1*
Y Carrier	*75.5*		*30 - 110*	*12/04/23 09:32*	*12/28/23 11:41*	*1*

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-639338/2-A
Matrix: Water
Analysis Batch: 642363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 639338

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.36	9.381		1.29	1.00	0.488	pCi/L	100	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.8*		*30 - 110*
Y Carrier	*77.4*		*30 - 110*

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Lab ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-005
Date Collected: 11/27/23 14:34
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			638914	KAC	EET SL	11/30/23 09:53
Total/NA	Analysis	903.0		1	642137	FLC	EET SL	12/27/23 14:34
Total/NA	Prep	PrecSep_0			638915	KAC	EET SL	11/30/23 10:01
Total/NA	Analysis	904.0		1	641897	SCB	EET SL	12/22/23 11:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	642740	EMH	EET SL	01/02/24 16:47

Client Sample ID: VER-041
Date Collected: 11/27/23 15:27
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			638914	KAC	EET SL	11/30/23 09:53
Total/NA	Analysis	903.0		1	642137	FLC	EET SL	12/27/23 14:34
Total/NA	Prep	PrecSep_0			638915	KAC	EET SL	11/30/23 10:01
Total/NA	Analysis	904.0		1	641897	SCB	EET SL	12/22/23 11:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	642740	EMH	EET SL	01/02/24 16:47

Client Sample ID: VER-101&
Date Collected: 11/27/23 15:50
Date Received: 11/28/23 11:23

Lab Sample ID: 500-243025-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			638914	KAC	EET SL	11/30/23 09:53
Total/NA	Analysis	903.0		1	642137	FLC	EET SL	12/27/23 14:35
Total/NA	Prep	PrecSep_0			638915	KAC	EET SL	11/30/23 10:01
Total/NA	Analysis	904.0		1	641897	SCB	EET SL	12/22/23 11:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	642740	EMH	EET SL	01/02/24 16:47

Client Sample ID: VER-004
Date Collected: 11/28/23 13:15
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639124	KAC	EET SL	12/01/23 09:46
Total/NA	Analysis	903.0		1	642534	FLC	EET SL	12/29/23 09:18
Total/NA	Prep	PrecSep_0			639126	KAC	EET SL	12/01/23 09:56
Total/NA	Analysis	904.0		1	642137	FLC	EET SL	12/27/23 11:34
Total/NA	Analysis	Ra226_Ra228 Pos		1	642740	EMH	EET SL	01/02/24 16:47

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Lab ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-017
Date Collected: 11/28/23 15:00
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642706	FLC	EET SL	01/02/24 14:24
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642395	FLC	EET SL	12/29/23 12:00
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Client Sample ID: VER-020
Date Collected: 11/28/23 14:28
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642706	FLC	EET SL	01/02/24 14:24
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642395	FLC	EET SL	12/29/23 12:00
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Client Sample ID: VER-021
Date Collected: 11/28/23 16:03
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642706	FLC	EET SL	01/02/24 14:24
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642395	FLC	EET SL	12/29/23 12:00
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Client Sample ID: VER-034
Date Collected: 11/28/23 15:09
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642706	FLC	EET SL	01/02/24 14:26
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642395	FLC	EET SL	12/29/23 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-036
Date Collected: 11/28/23 15:48
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642706	FLC	EET SL	01/02/24 14:26
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642395	FLC	EET SL	12/29/23 12:01
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Client Sample ID: VER-037
Date Collected: 11/28/23 08:44
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642706	FLC	EET SL	01/02/24 14:26
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642395	FLC	EET SL	12/29/23 12:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Client Sample ID: VER-038
Date Collected: 11/28/23 12:19
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642706	FLC	EET SL	01/02/24 14:26
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642395	FLC	EET SL	12/29/23 12:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Client Sample ID: VER-042
Date Collected: 11/28/23 10:26
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642720	FLC	EET SL	01/02/24 14:34
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642395	FLC	EET SL	12/29/23 12:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-043
Date Collected: 11/28/23 11:17
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642720	FLC	EET SL	01/02/24 14:34
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642395	FLC	EET SL	12/29/23 12:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Client Sample ID: VER-103&
Date Collected: 11/28/23 09:15
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642721	FLC	EET SL	01/02/24 17:05
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642395	FLC	EET SL	12/29/23 12:02
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Client Sample ID: VER-038_FD
Date Collected: 11/28/23 12:24
Date Received: 11/29/23 11:15

Lab Sample ID: 500-243025-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639127	KAC	EET SL	12/01/23 09:57
Total/NA	Analysis	903.0		1	642721	FLC	EET SL	01/02/24 17:05
Total/NA	Prep	PrecSep_0			639128	KAC	EET SL	12/01/23 10:01
Total/NA	Analysis	904.0		1	642397	FLC	EET SL	12/29/23 12:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	642919	EMH	EET SL	01/04/24 10:48

Client Sample ID: VER-002
Date Collected: 11/29/23 10:07
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639337	KAC	EET SL	12/04/23 09:27
Total/NA	Analysis	903.0		1	642534	FLC	EET SL	12/29/23 22:09
Total/NA	Prep	PrecSep_0			639338	KAC	EET SL	12/04/23 09:32
Total/NA	Analysis	904.0		1	642353	FLC	EET SL	12/28/23 11:40
Total/NA	Analysis	Ra226_Ra228 Pos		1	642740	EMH	EET SL	01/02/24 16:47

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Client Sample ID: VER-003R
Date Collected: 11/29/23 08:28
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639337	KAC	EET SL	12/04/23 09:27
Total/NA	Analysis	903.0		1	642534	FLC	EET SL	12/29/23 22:09
Total/NA	Prep	PrecSep_0			639338	KAC	EET SL	12/04/23 09:32
Total/NA	Analysis	904.0		1	642353	FLC	EET SL	12/28/23 11:40
Total/NA	Analysis	Ra226_Ra228 Pos		1	642740	EMH	EET SL	01/02/24 16:47

Client Sample ID: VER-008R
Date Collected: 11/29/23 08:57
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639337	KAC	EET SL	12/04/23 09:27
Total/NA	Analysis	903.0		1	642534	FLC	EET SL	12/29/23 22:09
Total/NA	Prep	PrecSep_0			639338	KAC	EET SL	12/04/23 09:32
Total/NA	Analysis	904.0		1	642353	FLC	EET SL	12/28/23 11:40
Total/NA	Analysis	Ra226_Ra228 Pos		1	642740	EMH	EET SL	01/02/24 16:47

Client Sample ID: VER-040
Date Collected: 11/29/23 10:57
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639337	KAC	EET SL	12/04/23 09:27
Total/NA	Analysis	903.0		1	642397	FLC	EET SL	12/29/23 22:06
Total/NA	Prep	PrecSep_0			639338	KAC	EET SL	12/04/23 09:32
Total/NA	Analysis	904.0		1	642353	FLC	EET SL	12/28/23 11:41
Total/NA	Analysis	Ra226_Ra228 Pos		1	642740	EMH	EET SL	01/02/24 16:47

Client Sample ID: VER-002_FD
Date Collected: 11/29/23 10:12
Date Received: 11/30/23 10:09

Lab Sample ID: 500-243025-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			639335	KAC	EET SL	12/04/23 09:21
Total/NA	Analysis	903.0		1	642706	FLC	EET SL	01/02/24 21:16
Total/NA	Prep	PrecSep_0			639336	KAC	EET SL	12/04/23 09:26
Total/NA	Analysis	904.0		1	642534	FLC	EET SL	12/29/23 11:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	642915	EMH	EET SL	01/03/24 16:36

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

Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

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
Illinois	NELAP	200023	11-30-24

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
903.0	PrecSep-21	Water	Radium-226
904.0	PrecSep_0	Water	Radium-228
Ra226_Ra228 Pos		Water	Radium 226 and 228

Courier Pickup

500-243025 COC 001

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 1 of 2

Section A Required Client Information	Section B Required Project Information	Section C Invoice Information
Company: Vistra Corp-Vermilion	Report To: Brian Voelker Jason Stuckey	Attention: Brian Voelker
Address: 10188 E 2150 North Rd	Copy To: Sam Davies samantha davies@vistracorp.com	Company Name: Vistra Corp
Danville, IL 61834	Dianna Tickner Dianna Tickner@vistracorp com	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	VER-060_RAD	Residual Chlorine (Y/N)	Project No./ Lab I.D
1	VER-002																						
2	VER-003R																						
3	VER-004																						
4	VER-005			11-27-23	1434		6	3		3							X	X		X			
5	VER-007R																						
6	VER-008R																						
7	VER-010																						
8	VER-016IB																						
9	VER-016A																						
10	VER-017																						
11	VER-020																						
12	VER-021																						
13	VER-022																						
14	VER-034																						
15	VER-035#S																						
16	VER-035&D																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0		11/26/23	976		11/28/23	0926	
		11/28/23	1123	Stephanie Hemmady EEIA	11/29/23	1123	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Duda

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 11/26/23

Temp in °C: 2.5+2.3 | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Courier pickup

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Section A Required Client Information.	Section B Required Project Information	Section C Invoice Information
Company: Vistra Corp-Vermilion	Report To: Brian Voelker (Jason Stuckey)	Attention: Jason Stuckey
Address: 10188 E 2150 North Rd	Copy To: Sam Davies samantha davies@vistracorp.com	Company Name: Vistra Corp
Danville, IL 61834	Dianna Tickner - Dianna Tickner@vistracorp.com	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000	VER_845_910-911	VER_845_912	VER_NPDES_912	VER-000-A	VER-000-RAD	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	VER-036																						
2	VER-037																						
3	VER-038																						
4	VER-040																						
2 5	VER-041			11-27-23	1527		6	3		3								X		X	X		
6	VER-042																						
7	VER-043																						
8	VER-070#S																						
9	VER-070&D																						
10	VER-071#S																						
11	VER-071&D																						
3 12	VER-101&			11-27-23	1550		6	3		3							X	X			X	X		
13	VER-103&																						
14	VER-ND3																						
15	VER-NED1																						
16	VER-OED1																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	[signature] (Regions)	11/28/23	926	Stephanie Hernandez EEA	11/28/23	1123	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Reda

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/28/23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Cooler Pickup

CHAIN-OF-CUSTODY / Analytical Request Document

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COC# 1940105513 002

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500-243025

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Vermilion	Report To	Brian Voelker	Attention	Brian Voelker
Address	10188 E 2150 North Rd	Copy To	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner Dianna Tickner@vistracorp com	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference	
Phone	(217) 753-8911 Fax.	Project Name		Project Manager	
Requested Due Date/TAT	10 day	Project Number	2285	Profile #	

500 243025 COC

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE	IL	

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

	ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	Ver_000_RAD	VER_000_B	Residual Chlorine (Y/N)	Project No./ Lab I D
	1	VER-002																							
	2	VER-003R																							
4	3	VER-004	GW	G	11/28/23	1315		18	9		9							X	X			X			
	4	VER-005																							
	5	VER-007R																							
	6	VER-008R																							
5	7	VER-010	GW	G	11/28/23	1340		7	3		4								X	X	X	X	X		
	8	VER-016!B																							
	9	VER-016A																							
6	10	VER-017	GW	G	11/28/23	1500		6	3		3							X	X			X			
7	11	VER-020	GW	G	11/28/23	1428		6	3		3							X	X			X			
8	12	VER-021	GW	G	11/28/23	1603		6	3		3							X	X			X			
9	13	VER-022	GW	G	11/28/23	1248		18	9		9							X		X		X			
10	14	VER-034	GW	G	11/28/23	1509		6	3		3							X	X			X			
	15	VER-035#S																							
	16	VER-035&D																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	[signature]	11-29-23	917	[signature]	11/29/23	0917	3.4→3.2, 2.7+2.5
Ver-022 MS/MSD, Ver-004 MS/MSD	[signature]	11/29/23	1115	[signature]	11/29/23	1115	5.4+5.2, 3.6+3.4

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Ord

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11-29-23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

5.9+5.7

COC#19401055 15.002

CHAIN-OF-CUSTODY / Analytical Request Document

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500-243025

Section A Required Client Information		Section B Required Project Information.		Section C Invoice Information	
Company:	Vistra Corp-Vermilion	Report To	Brian Voelker	Attention	Jason Stuckey
Address	10188 E 2150 North Rd	Copy To	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner Dianna Tickner@vistracorp.com	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No		Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z 0-9 / -)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	VER-000-RAD	Residual Chlorine (Y/N)	Project No./ Lab I D.
11 1	VER-036	GW	6	11/28/23	1576		6	3		3							X	X			X		
12 2	VER-037	GW	6	11/28/23	0844		6	3		3							X	X			X		
13 3	VER-038	GW	6	11/28/23	1214		6	3		3							X	X			X		
4	VER-040																						
5	VER-041																						
14 6	VER-042	GW	6	11/28/23	1026		6	3		3							X	X			X		
15 7	VER-043	GW	6	11/28/23	1117		6	3		3							X	X			X		
8	VER-070#S																						
9	VER-070&D																						
10	VER-071#S																						
11	VER-071&D																						
12	VER-101&																						
16 13	VER-103&	GW	6	11/28/23	0915		6	3		3							X	X			X		
14	VER-ND3																						
15	VER-NED1																						
16	VER-OED1																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0		11-29-23	0917		11/29/23	0917	
		11/29/23	1115		11/29/23	1115	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Nate Dorn
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 11-29-23

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Courier pickup

CHAIN-OF-CUSTODY / Analytical Request Document

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COC #19401055155001

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500-243025

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Vermilion	Report To	Brian Voelker	Attention	Jason Stuckey
Address	10188 E 2150 North Rd	Copy To:	Sam Davies. samantha.davies@vistracorp com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner - Dianna Tickner@vistracorp com	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No		Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name		Project Manager	
Requested Due Date/TAT	10 day	Project Number	2285	Profile #	

REGULATORY AGENCY

NPDES **GROUND WATER** DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_006_							Residual Chlorine (Y/N)	Project No./ Lab I.D
1	VER-YSG01																												
2	Field Blank																												
17 3	VER_078_FD	GW	G	11/28/23	1224		6	3		3							X	X			X								
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	[signature]	11-29-23	917	[signature]	11/29/23	0917	
	[signature]	11/29/23	1115	[signature]	11/29/23	1115	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Nate Dr..
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/29/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

COC#1910055130

CHAIN-OF-CUSTODY / Analytical Request Document

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Page	1	of	3

500-243025

Section A Required Client Information

Company	Vistra Corp-Vermilion
Address	10188 E 2150 North Rd, Danville, IL 61834
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911
Fax	
Requested Due Date/TAT	10 day

Section B Required Project Information

Report To	Brian Voelker
Copy To	Sam Davies samantha.davies@vistracorp com; Dianna Tickner - Dianna Tickner@vistracorp com
Purchase Order No	
Project Name	
Project Number	2285

Section C Invoice Information

Attention	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference	
Project Manager	
Profile #	

REGULATORY AGENCY

NPDES | **GROUND WATER** | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

SAMPLE ID (A-Z 0-9 /) Sample IDs MUST BE UNIQUE

500-243025 COC

Requested Analysis Filtered (Y/N)

	ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000-RAD	VER_200-B						Residual Chlorine (Y/N)	Project No./ Lab I.D.
18	1	VER-002	GW	G	11-29-23	1007		6	3		3							X	X			X								
19	2	VER-003R	GW	G	11-29-23	0828		6	3		3							X	X			X								
	3	VER-004																												
	4	VER-005																												
	5	VER-007R																												
20	6	VER-008R	GW	G	11-29-23	0857		6	3		3							X	X			X								
	7	VER-010																												
	8	VER-016!B																												
21	9	VER-016A	GW	G	11-29-23	0450		7	3		4									X	X	X	X							
	10	VER-017																												
	11	VER-020																												
	12	VER-021																												
	13	VER-022																												
	14	VER-034																												
	15	VER-035#S																												
22	16	VER-035&D	GW	G	11-29-23	0807		7	3		4									X	X	X	X							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
VER-23Q4 Rev 0	Scott Woods on behalf of Nate Duda SWW	11/30/23	0905	[signature]	11/30/23	0905	3.0-72.8	4.4-74.1		
	[signature]			[signature]	11/30/23	1009	2.8-72.6	3.9-73.7		
							2.6-72.4	1.7-71.6		
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

[signature] 11/30/23 1009

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Duda

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11-29-23

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

C-VERMIL0-911 5.003

Page 2 of 3

500-243025

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Vermilion	Report To	Brian Voelker	Attention	Jason Stuckey
Address	10188 E 2150 North Rd	Copy To	Sam Davies samantha davies@vistracorp com	Company Name	Vistra Corp
	Danville, IL 61834		Dianna Tickner Dianna Tickner@vistracorp com	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference	
Phone	(217) 753-8911 Fax	Project Name		Project Manager	
Requested Due Date/TAT	10 day	Project Number	2285	Profile #	

REGULATORY AGENCY		
NPDES	**GROUND WATER**	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE	IL	

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

Requested Analysis Filtered (Y/N)

	ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VER_000_X	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000-NAD	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	1	VER-036																						
	2	VER-037																						
	3	VER-038																						
23	4	VER-040	GW	G	11-29-23	1057		6	3		3							X	X			X		
	5	VER-041																						
	6	VER-042																						
	7	VER-043																						
24	8	VER-070#S	GW	G	11/29/23	1210		6	3		3							X		X		X		
25	9	VER-070&D	GW	G	11/29/23	1307		6	3		3							X		X		X		
	10	VER-071#S																						
26	11	VER-071&D	GW	G	11/29/23	1055		2	1		1							X		X				Revised 12/4/23, Eric Bauer
	12	VER-101&																						
	13	VER-103&																						
	14	VER-ND3																						
27	15	VER-NED1	GW	G	11/29/23	1205		6	3		3							X		X		X		
	16	VER-OED1																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	Scott Woods on behalf of	11/30/23	0905	[signature]	11/30/23	0905	
VER710 wat dry	Nate Duda SWWa	11/30/23	1009	[signature]	11/30/23	1009	

Collected water can

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Nate Duda

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/29/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

COCH VER 845 910-911 007

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 3 of 3

500-243025

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Vermilion	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	10188 E 2150 North Rd	Copy To:	Sam Davies samantha davies@vistracorp.com	Company Name:	Vistra Corp
	Danville, IL 61834		Dianna Tickner Dianna Tickner@vistracorp com	Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY		
NPDES	**GROUND WATER**	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE	IL	

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

	ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N Analysis Test	VER_000_A	VER_845_910-911	VER_845_912	VER_NPDES_912	VER_000_Rad	VER_000_B							Residual Chlorine (Y/N)	Project No./Lab I D
	1	VER-YSG01																													
28	2	~~Field Blank~~ VER_EB-1	WT	G	11/29/23	1315		7										X	X	X	X	X	X								
29	3	VER_002_FD	GW	G	11-29-23	1012		6	3		3							X	X												
	4																	X	X			X									
30	5	VER-035D_FD	GW	G	11-29-23	0812														X	X	X	X								
	6																														
	7																														
	8																														
	9																														
	10																														
	11																														
	12																														
	13																														
	14																														
	15																														
	16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
VER-23Q4 Rev 0	Scott Woods on behalf of Nate Duda [signature]	11/30/23	0905	[signature]	11/30/23	0905	
VER-EB-1 circled is for analysis	[signature]	11/30/23	1009	[signature]	11/30/23	1009	

VER_845_912, VER-NPDES-912, VER-000Rad
VER_000-B
SAME AS VER-035D_FD

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER			
SIGNATURE of SAMPLER		DATE Signed (MM/DD/YY)	

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-182067.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-243025-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 1/1/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q4	Project #: 50022421			
Site:	SSOW#:			

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, 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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	903.0/PrecSep_21 AJ	904.0/PrecSep_0 AJ	Ra226_228GFPC_P/ AJ	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
VER-005 (500-243025-1)	11/27/23	14:34 Central		Water			X	X	X	X	X	X	2	
VER-041 (500-243025-2)	11/27/23	15:27 Central		Water			X	X	X	X	X	X	2	
VER-101& (500-243025-3)	11/27/23	15:50 Central		Water			X	X	X	X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago 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 Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Shiri Scott	11/26/23 1440				
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: NOV 29 2023 0930	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-182129.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-243025-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 12/11/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q4	Project #: 50022421			
Site:	SSOW#:			

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, 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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 AJ	904.0/PrecSep_0 AJ	Ra226_228GFPC_P/ AJ	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	903.0/PrecSep_21 AL	904.0/PrecSep_0 AL	Ra226_228GFPC_P/ AL	Total Number of containers	Special Instructions/Note:
Preservation Code:																	
VER-004 (500-243025-4)	11/28/23	13:15 Central		Water			X	X	X	X	X	X				2	
VER-004_MS (500-243025-4MS)	11/28/23	13:15 Central	MS	Water			X	X	X	X	X	X				2	
VER-004_MSD (500-243025-4MSD)	11/28/23	13:15 Central	MSD	Water			X	X	X	X	X	X				2	
VER-010 (500-243025-5)	11/28/23	13:40 Central		Water						X	X	X	X	X	X	2	
VER-017 (500-243025-6)	11/28/23	15:00 Central		Water			X	X	X	X	X	X				2	
VER-020 (500-243025-7)	11/28/23	14:28 Central		Water			X	X	X	X	X	X				2	
VER-021 (500-243025-8)	11/28/23	16:03 Central		Water			X	X	X	X	X	X				2	
VER-022 (500-243025-9)	11/28/23	12:48 Central		Water						X	X	X	X	X	X	2	
VER-022_MS (500-243025-9MS)	11/28/23	12:48 Central	MS	Water						X	X	X	X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago 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 Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Shawn Scott	11/29/23 1330				
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: NOV 30 2023 0915	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-182129.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-243025-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 12/11/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q4	Project #: 50022421			
Site:	SSOW#:			

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, 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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 AJ	904.0/PrecSep_0 AJ	Ra226_228GFPC_P/ AJ	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	903.0/PrecSep_21 AL	904.0/PrecSep_0 AL	Ra226_228GFPC_P/ AL	Total Number of containers	Special Instructions/Note:
			Preservation Code:														
VER-022_MSD (500-243025-9MSD)	11/28/23	12:48 Central	MSD	Water						X	X	X	X	X	X	2	
VER-034 (500-243025-10)	11/28/23	15:09 Central		Water			X	X	X	X	X	X				2	
VER-036 (500-243025-11)	11/28/23	15:48 Central		Water			X	X	X	X	X	X				2	
VER-037 (500-243025-12)	11/28/23	08:44 Central		Water			X	X	X	X	X	X				2	
VER-038 (500-243025-13)	11/28/23	12:19 Central		Water			X	X	X	X	X	X				2	
VER-042 (500-243025-14)	11/28/23	10:26 Central		Water			X	X	X	X	X	X				2	
VER-043 (500-243025-15)	11/28/23	11:17 Central		Water			X	X	X	X	X	X				2	
VER-103& (500-243025-16)	11/28/23	09:15 Central		Water			X	X	X	X	X	X				2	
VER-038_FD (500-243025-17)	11/28/23	12:24 Central		Water			X	X	X	X	X	X				2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago 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 Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time: 11/29/23 1330	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: NOV 30 2023 0915	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-182192.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-243025-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 12/11/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q4	Project #: 50022421			
Site:	SSOW#:			

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, 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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
VER-002 (500-243025-18)	11/29/23	10:07 Central		Water			X	X	X	2	
VER-003R (500-243025-19)	11/29/23	08:28 Central		Water			X	X	X	2	
VER-008R (500-243025-20)	11/29/23	08:57 Central		Water			X	X	X	2	
VER-016A (500-243025-21)	11/29/23	09:50 Central		Water			X	X	X	2	
VER-035&D (500-243025-22)	11/29/23	08:07 Central		Water			X	X	X	2	
VER-040 (500-243025-23)	11/29/23	10:57 Central		Water			X	X	X	2	
VER-070#S (500-243025-24)	11/29/23	12:10 Central		Water			X	X	X	2	
VER-070&D (500-243025-25)	11/29/23	13:07 Central		Water			X	X	X	2	
VER-NED1 (500-243025-27)	11/29/23	12:05 Central		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago 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 Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	11/30/23 1600	EETA			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				[signature] M. Pinetta	DEC 01 2023 0900	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2023
VERMILION POWER PLANT, NORTH ASH POND (NAP) and OLD EAST ASH POND (OEAP)
VER-845-910-911

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-182192.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-243025-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 12/11/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: VER-23Q4	Project #: 50022421			
Site:	SSOW#:			

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, 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=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
VER-EB-1 (500-243025-28)	11/29/23	13:15 Central		Water			X	X	X	2	
VER-002_FD (500-243025-29)	11/29/23	10:12 Central		Water			X	X	X	2	
VER-035&D_FD (500-243025-30)	11/29/23	08:12 Central		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago 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 Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Relinquished by: 11/30/23 1600 EETA
Received by: M Pinette DEC 01 2023 0900

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

01/09/24

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-243025-4
SDG Number: VER_845_910-911_RAD

Login Number: 243025
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

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	2.3,3.2,2.5,5.2,3.4,5.7,2.8,4.2,2.6,3.7,2.4,1.6
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-243025-4
SDG Number: VER_845_910-911_RAD

Login Number: 243025
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 11/29/23 12:04 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?	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: Vistra Energy Corp

Job Number: 500-243025-4
SDG Number: VER_845_910-911_RAD

Login Number: 243025
List Number: 3
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 11/30/23 02:15 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: Vistra Energy Corp

Job Number: 500-243025-4
SDG Number: VER_845_910-911_RAD

Login Number: 243025
List Number: 4
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 12/01/23 11:56 AM

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?	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	

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Ba (30-110)
500-243025-1	VER-005	93.8
500-243025-2	VER-041	93.3
500-243025-3	VER-101&	93.5
500-243025-4	VER-004	95.5
500-243025-4 MS	VER-004_MS	91.3
500-243025-4 MSD	VER-004_MSD	80.8
500-243025-6	VER-017	82.1
500-243025-7	VER-020	97.0
500-243025-8	VER-021	87.1
500-243025-10	VER-034	43.0
500-243025-11	VER-036	79.4
500-243025-12	VER-037	87.1
500-243025-13	VER-038	91.5
500-243025-14	VER-042	89.6
500-243025-15	VER-043	63.7
500-243025-16	VER-103&	85.8
500-243025-17	VER-038_FD	88.3
500-243025-18	VER-002	98.5
500-243025-19	VER-003R	60.4
500-243025-20	VER-008R	87.6
500-243025-23	VER-040	101
500-243025-29	VER-002_FD	87.3
LCS 160-638914/2-A	Lab Control Sample	99.5
LCS 160-639124/2-A	Lab Control Sample	95.3
LCS 160-639127/2-A	Lab Control Sample	97.5
LCS 160-639335/2-A	Lab Control Sample	103
LCS 160-639337/2-A	Lab Control Sample	90.8
MB 160-638914/1-A	Method Blank	87.8
MB 160-639124/1-A	Method Blank	89.3
MB 160-639127/1-A	Method Blank	95.8
MB 160-639335/1-A	Method Blank	103
MB 160-639337/1-A	Method Blank	101

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - 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)
500-243025-1	VER-005	93.8	87.1
500-243025-2	VER-041	93.3	86.7
500-243025-3	VER-101&	93.5	87.9
500-243025-4	VER-004	95.5	82.2
500-243025-4 MS	VER-004_MS	91.3	90.8
500-243025-4 MSD	VER-004_MSD	80.8	88.6
500-243025-6	VER-017	82.1	84.1
500-243025-7	VER-020	97.0	81.1

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: VER-23Q4

Job ID: 500-243025-4
SDG: VER_845_910-911_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-243025-8	VER-021	87.1	86.4
500-243025-10	VER-034	43.0	80.4
500-243025-11	VER-036	79.4	86.4
500-243025-12	VER-037	87.1	85.2
500-243025-13	VER-038	91.5	81.9
500-243025-14	VER-042	89.6	79.3
500-243025-15	VER-043	63.7	83.0
500-243025-16	VER-103&	85.8	83.4
500-243025-17	VER-038_FD	88.3	88.6
500-243025-18	VER-002	98.5	77.4
500-243025-19	VER-003R	60.4	81.9
500-243025-20	VER-008R	87.6	75.5
500-243025-23	VER-040	101	76.3
500-243025-29	VER-002_FD	87.3	85.2
LCS 160-638915/2-A	Lab Control Sample	99.5	81.9
LCS 160-639126/2-A	Lab Control Sample	95.3	81.9
LCS 160-639128/2-A	Lab Control Sample	97.5	86.4
LCS 160-639338/2-A	Lab Control Sample	90.8	77.4
MB 160-638915/1-A	Method Blank	87.8	81.5
MB 160-639126/1-A	Method Blank	89.3	81.5
MB 160-639128/1-A	Method Blank	95.8	83.0
MB 160-639338/1-A	Method Blank	101	75.5

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 4, 2023

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
02	LGU	E003	Antimony, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.003	0.00100
02	LGU	E003	Arsenic, total	mg/L	03/31/21 - 11/29/23	11	9	CI around mean	0.00531	0.0600
02	LGU	E003	Barium, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.193	0.520
02	LGU	E003	Beryllium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.001	0.001
02	LGU	E003	Boron, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.305	2.45
02	LGU	E003	Cadmium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0005	0.001
02	LGU	E003	Chloride, total	mg/L	03/31/21 - 11/29/23	11	0	CB around linear reg	37	82.0
02	LGU	E003	Chromium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.005	0.0200
02	LGU	E003	Cobalt, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.001	0.00400
02	LGU	E003	Fluoride, total	mg/L	03/31/21 - 11/29/23	11	9	CB around linear reg	0.474	1.14
02	LGU	E003	Lead, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0005	0.00600
02	LGU	E003	Lithium, total	mg/L	03/31/21 - 11/29/23	11	46	CI around mean	0.00285	0.0300
02	LGU	E003	Mercury, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0002	0.0002
02	LGU	E003	Molybdenum, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.005	0.0200
02	LGU	E003	pH (field)	SU	03/31/21 - 11/29/23	11	0	CI around mean	7.4/7.8	6.8/7.8
02	LGU	E003	Radium 226 + Radium 228, total	pCi/L	03/31/21 - 11/29/23	10	0	CI around mean	0.424	1.90
02	LGU	E003	Selenium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0025	0.001
02	LGU	E003	Sulfate, total	mg/L	03/31/21 - 11/29/23	11	0	CB around linear reg	-12.5	227
02	LGU	E003	Thallium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.002	0.002
02	LGU	E003	Total Dissolved Solids	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	553	746
03R	LGU	E003	Antimony, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.003	0.00100
03R	LGU	E003	Arsenic, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	0.00459	0.0600
03R	LGU	E003	Barium, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	0.285	0.520
03R	LGU	E003	Beryllium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.001	0.001
03R	LGU	E003	Boron, total	mg/L	03/30/21 - 11/29/23	11	0	CI around median	19.1	2.45
03R	LGU	E003	Cadmium, total	mg/L	03/30/21 - 11/29/23	11	82	CI around median	0.001	0.001
03R	LGU	E003	Chloride, total	mg/L	03/30/21 - 11/29/23	11	2	CI around mean	26.2	82.0

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
03R	LGU	E003	Chromium, total	mg/L	03/30/21 - 11/29/23	11	82	CI around median	0.0015	0.0200
03R	LGU	E003	Cobalt, total	mg/L	03/30/21 - 11/29/23	11	82	CI around median	0.001	0.00400
03R	LGU	E003	Fluoride, total	mg/L	03/30/21 - 11/29/23	11	9	CI around mean	0.446	1.14
03R	LGU	E003	Lead, total	mg/L	03/30/21 - 11/29/23	11	64	CI around median	0.001	0.00600
03R	LGU	E003	Lithium, total	mg/L	03/30/21 - 11/29/23	11	91	CI around median	0.003	0.0300
03R	LGU	E003	Mercury, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0002	0.0002
03R	LGU	E003	Molybdenum, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	0.178	0.0200
03R	LGU	E003	pH (field)	SU	03/30/21 - 11/29/23	11	0	CI around mean	7.2/7.4	6.8/7.8
03R	LGU	E003	Radium 226 + Radium 228, total	pCi/L	04/21/21 - 11/29/23	9	0	CI around mean	0.871	1.90
03R	LGU	E003	Selenium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0025	0.001
03R	LGU	E003	Sulfate, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	484	227
03R	LGU	E003	Thallium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.002	0.002
03R	LGU	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	1,080	746
04	UA	E003	Antimony, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.003	0.00100
04	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/28/23	11	0	CI around geomean	0.0055	0.0600
04	UA	E003	Barium, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.226	0.520
04	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.001	0.001
04	UA	E003	Boron, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	8.61	2.45
04	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.001
04	UA	E003	Chloride, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	10.7	82.0
04	UA	E003	Chromium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.005	0.0200
04	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/28/23	11	91	Most recent sample	0.001	0.00400
04	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/28/23	11	9	CB around linear reg	0.292	1.14
04	UA	E003	Lead, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.00600
04	UA	E003	Lithium, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.0476	0.0300
04	UA	E003	Mercury, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0002	0.0002
04	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/28/23	11	0	CB around linear reg	0.0323	0.0200

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
04	UA	E003	pH (field)	SU	03/30/21 - 11/28/23	11	0	CI around mean	7.3/7.6	6.8/7.8
04	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/19/21 - 11/28/23	9	0	CI around mean	0.609	1.90
04	UA	E003	Selenium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0025	0.001
04	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	37.8	227
04	UA	E003	Thallium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.002	0.002
04	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	369	746
05	UA	E003	Antimony, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.003	0.00100
05	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.001	0.0600
05	UA	E003	Barium, total	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	0.0219	0.520
05	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.001	0.001
05	UA	E003	Boron, total	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	18.5	2.45
05	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0005	0.001
05	UA	E003	Chloride, total	mg/L	03/30/21 - 11/27/23	11	2	CI around median	7	82.0
05	UA	E003	Chromium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.005	0.0200
05	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/27/23	11	82	CI around median	0.001	0.00400
05	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/27/23	11	9	CI around mean	0.517	1.14
05	UA	E003	Lead, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0005	0.00600
05	UA	E003	Lithium, total	mg/L	03/30/21 - 11/27/23	11	0	CI around median	0.0886	0.0300
05	UA	E003	Mercury, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0002	0.0002
05	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/27/23	11	0	CB around linear reg	0.039	0.0200
05	UA	E003	pH (field)	SU	03/30/21 - 11/27/23	11	0	CI around mean	7.2/7.4	6.8/7.8
05	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/21/21 - 11/27/23	9	0	CI around mean	-0.0377	1.90
05	UA	E003	Selenium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0025	0.001
05	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/27/23	11	0	CB around linear reg	32.7	227
05	UA	E003	Thallium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.002	0.002
05	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	526	746
08R	UA	E003	Antimony, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.003	0.00100

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
08R	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/29/23	11	0	CB around linear reg	0.0233	0.0600
08R	UA	E003	Barium, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	0.0512	0.520
08R	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.001	0.001
08R	UA	E003	Boron, total	mg/L	03/30/21 - 11/29/23	11	0	CI around median	14.4	2.45
08R	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0005	0.001
08R	UA	E003	Chloride, total	mg/L	03/30/21 - 11/29/23	11	0	CI around median	4	82.0
08R	UA	E003	Chromium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.005	0.0200
08R	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.001	0.00400
08R	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/29/23	11	73	CI around median	0.1	1.14
08R	UA	E003	Lead, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0005	0.00600
08R	UA	E003	Lithium, total	mg/L	03/30/21 - 11/29/23	11	0	CI around median	0.13	0.0300
08R	UA	E003	Mercury, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0002	0.0002
08R	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/29/23	11	0	CI around mean	0.176	0.0200
08R	UA	E003	pH (field)	SU	03/30/21 - 11/29/23	11	0	CB around linear reg	7.0/9.2	6.8/7.8
08R	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/21/21 - 11/29/23	9	0	CI around mean	0.325	1.90
08R	UA	E003	Selenium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.0025	0.001
08R	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/29/23	11	0	CB around linear reg	457	227
08R	UA	E003	Thallium, total	mg/L	03/30/21 - 11/29/23	11	100	All ND - Last	0.002	0.002
08R	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/29/23	11	0	CB around linear reg	1,090	746
17	UA	E003	Antimony, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.003	0.00100
17	UA	E003	Arsenic, total	mg/L	03/31/21 - 11/28/23	8	12	CI around mean	0.00382	0.0600
17	UA	E003	Barium, total	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	0.0253	0.520
17	UA	E003	Beryllium, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.001	0.001
17	UA	E003	Boron, total	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	3.07	2.45
17	UA	E003	Cadmium, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.0005	0.001
17	UA	E003	Chloride, total	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	14	82.0
17	UA	E003	Chromium, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.005	0.0200

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17	UA	E003	Cobalt, total	mg/L	03/31/21 - 11/28/23	8	12	CI around mean	0.0012	0.00400
17	UA	E003	Fluoride, total	mg/L	03/31/21 - 11/28/23	8	12	CB around linear reg	0.175	1.14
17	UA	E003	Lead, total	mg/L	03/31/21 - 11/28/23	8	62	CI around median	0.0005	0.00600
17	UA	E003	Lithium, total	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	0.0189	0.0300
17	UA	E003	Mercury, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.0002	0.0002
17	UA	E003	Molybdenum, total	mg/L	03/31/21 - 11/28/23	8	38	CI around mean	0.00177	0.0200
17	UA	E003	pH (field)	SU	03/31/21 - 11/28/23	8	0	CI around mean	6.7/7.0	6.8/7.8
17	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/31/21 - 11/28/23	7	0	CI around mean	0.148	1.90
17	UA	E003	Selenium, total	mg/L	03/31/21 - 11/28/23	8	88	CI around median	0.001	0.001
17	UA	E003	Sulfate, total	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	890	227
17	UA	E003	Thallium, total	mg/L	03/31/21 - 11/28/23	8	100	All ND - Last	0.002	0.002
17	UA	E003	Total Dissolved Solids	mg/L	03/31/21 - 11/28/23	8	0	CI around mean	1,560	746
20	UA	E003	Antimony, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.003	0.00100
20	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/28/23	11	64	CI around median	0.001	0.0600
20	UA	E003	Barium, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.017	0.520
20	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.001	0.001
20	UA	E003	Boron, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.588	2.45
20	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.001
20	UA	E003	Chloride, total	mg/L	03/30/21 - 11/28/23	11	14	CI around median	4	82.0
20	UA	E003	Chromium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.005	0.0200
20	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/28/23	11	82	CI around median	0.001	0.00400
20	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.1	1.14
20	UA	E003	Lead, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.00600
20	UA	E003	Lithium, total	mg/L	03/30/21 - 11/28/23	11	0	CI around geomean	0.0197	0.0300
20	UA	E003	Mercury, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0002	0.0002
20	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/28/23	11	91	CI around median	0.0015	0.0200
20	UA	E003	pH (field)	SU	03/30/21 - 11/28/23	11	0	CI around mean	6.9/7.1	6.8/7.8

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20	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/19/21 - 11/28/23	9	0	CI around mean	0.388	1.90
20	UA	E003	Selenium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0025	0.001
20	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	71.5	227
20	UA	E003	Thallium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.002	0.002
20	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	395	746
34	LGU	E003	Antimony, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.003	0.00100
34	LGU	E003	Arsenic, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.0241	0.0600
34	LGU	E003	Barium, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	0.154	0.520
34	LGU	E003	Beryllium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.001	0.001
34	LGU	E003	Boron, total	mg/L	03/30/21 - 11/28/23	11	0	CB around linear reg	0.364	2.45
34	LGU	E003	Cadmium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.001
34	LGU	E003	Chloride, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	33	82.0
34	LGU	E003	Chromium, total	mg/L	03/30/21 - 11/28/23	11	36	CI around mean	0.00183	0.0200
34	LGU	E003	Cobalt, total	mg/L	03/30/21 - 11/28/23	11	46	CI around median	0.001	0.00400
34	LGU	E003	Fluoride, total	mg/L	03/30/21 - 11/28/23	11	9	CI around median	0.62	1.14
34	LGU	E003	Lead, total	mg/L	03/30/21 - 11/28/23	11	9	CI around mean	0.00141	0.00600
34	LGU	E003	Lithium, total	mg/L	03/30/21 - 11/28/23	11	36	CI around mean	0.0032	0.0300
34	LGU	E003	Mercury, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0002	0.0002
34	LGU	E003	Molybdenum, total	mg/L	03/30/21 - 11/28/23	11	91	CI around median	0.0015	0.0200
34	LGU	E003	pH (field)	SU	03/30/21 - 11/28/23	11	0	CI around mean	6.9/7.2	6.8/7.8
34	LGU	E003	Radium 226 + Radium 228, total	pCi/L	04/19/21 - 11/28/23	9	0	CI around mean	0.245	1.90
34	LGU	E003	Selenium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0025	0.001
34	LGU	E003	Sulfate, total	mg/L	03/30/21 - 11/28/23	11	88	CI around median	1	227
34	LGU	E003	Thallium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.002	0.002
34	LGU	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/28/23	11	0	CI around median	475	746
36	UA	E003	Antimony, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.003	0.00100
36	UA	E003	Arsenic, total	mg/L	03/31/21 - 11/28/23	11	9	CB around linear reg	0.00396	0.0600

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
36	UA	E003	Barium, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	0.106	0.520
36	UA	E003	Beryllium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.001	0.001
36	UA	E003	Boron, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	11.4	2.45
36	UA	E003	Cadmium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0005	0.001
36	UA	E003	Chloride, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	19.3	82.0
36	UA	E003	Chromium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.005	0.0200
36	UA	E003	Cobalt, total	mg/L	03/31/21 - 11/28/23	11	91	CI around median	0.001	0.00400
36	UA	E003	Fluoride, total	mg/L	03/31/21 - 11/28/23	11	9	CI around median	0.25	1.14
36	UA	E003	Lead, total	mg/L	03/31/21 - 11/28/23	11	91	CI around median	0.001	0.00600
36	UA	E003	Lithium, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	0.125	0.0300
36	UA	E003	Mercury, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0002	0.0002
36	UA	E003	Molybdenum, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	0.106	0.0200
36	UA	E003	pH (field)	SU	03/31/21 - 11/28/23	11	0	CI around mean	7.0/7.2	6.8/7.8
36	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/31/21 - 11/28/23	10	0	CB around linear reg	1.66	1.90
36	UA	E003	Selenium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0025	0.001
36	UA	E003	Sulfate, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	943	227
36	UA	E003	Thallium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.002	0.002
36	UA	E003	Total Dissolved Solids	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	1,640	746
37	LGU	E003	Antimony, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.003	0.00100
37	LGU	E003	Arsenic, total	mg/L	03/31/21 - 11/28/23	11	0	CI around median	0.0257	0.0600
37	LGU	E003	Barium, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	0.278	0.520
37	LGU	E003	Beryllium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.001	0.001
37	LGU	E003	Boron, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	1.23	2.45
37	LGU	E003	Cadmium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0005	0.001
37	LGU	E003	Chloride, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	41	82.0
37	LGU	E003	Chromium, total	mg/L	03/31/21 - 11/28/23	11	91	CI around median	0.0015	0.0200
37	LGU	E003	Cobalt, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.001	0.00400

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37	LGU	E003	Fluoride, total	mg/L	03/31/21 - 11/28/23	11	9	CI around mean	0.565	1.14
37	LGU	E003	Lead, total	mg/L	03/31/21 - 11/28/23	11	82	CI around median	0.0005	0.00600
37	LGU	E003	Lithium, total	mg/L	03/31/21 - 11/28/23	11	91	CI around median	0.003	0.0300
37	LGU	E003	Mercury, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0002	0.0002
37	LGU	E003	Molybdenum, total	mg/L	03/31/21 - 11/28/23	11	91	CI around median	0.0015	0.0200
37	LGU	E003	pH (field)	SU	03/31/21 - 11/28/23	11	0	CI around mean	6.8/7.1	6.8/7.8
37	LGU	E003	Radium 226 + Radium 228, total	pCi/L	03/31/21 - 11/28/23	10	0	CI around mean	0.791	1.90
37	LGU	E003	Selenium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.0025	0.001
37	LGU	E003	Sulfate, total	mg/L	03/31/21 - 11/28/23	11	0	CI around mean	146	227
37	LGU	E003	Thallium, total	mg/L	03/31/21 - 11/28/23	11	100	All ND - Last	0.002	0.002
37	LGU	E003	Total Dissolved Solids	mg/L	03/31/21 - 11/28/23	11	0	CB around linear reg	761	746
38	UA	E003	Antimony, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.003	0.00100
38	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/28/23	11	0	CB around linear reg	0.0256	0.0600
38	UA	E003	Barium, total	mg/L	03/30/21 - 11/28/23	11	0	CB around T-S line	-0.26	0.520
38	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.001	0.001
38	UA	E003	Boron, total	mg/L	03/30/21 - 11/28/23	11	0	CI around geomean	0.41	2.45
38	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.001
38	UA	E003	Chloride, total	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	17.6	82.0
38	UA	E003	Chromium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.005	0.0200
38	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.001	0.00400
38	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/28/23	11	9	CI around mean	0.343	1.14
38	UA	E003	Lead, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0005	0.00600
38	UA	E003	Lithium, total	mg/L	03/30/21 - 11/28/23	11	46	CI around geomean	0.00289	0.0300
38	UA	E003	Mercury, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0002	0.0002
38	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/28/23	11	27	CI around mean	0.00232	0.0200
38	UA	E003	pH (field)	SU	03/30/21 - 11/28/23	11	0	CI around mean	6.9/7.1	6.8/7.8
38	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/19/21 - 11/28/23	9	0	CI around mean	0.856	1.90

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38	UA	E003	Selenium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.0025	0.001
38	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/28/23	11	91	CI around median	1.2	227
38	UA	E003	Thallium, total	mg/L	03/30/21 - 11/28/23	11	100	All ND - Last	0.002	0.002
38	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/28/23	11	0	CI around mean	495	746
40	UA	E003	Antimony, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.003	0.00100
40	UA	E003	Arsenic, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.017	0.0600
40	UA	E003	Barium, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.03	0.520
40	UA	E003	Beryllium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.001	0.001
40	UA	E003	Boron, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	19.4	2.45
40	UA	E003	Cadmium, total	mg/L	03/31/21 - 11/29/23	11	91	CI around median	0.0005	0.001
40	UA	E003	Chloride, total	mg/L	03/31/21 - 11/29/23	11	0	CB around linear reg	6.07	82.0
40	UA	E003	Chromium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.005	0.0200
40	UA	E003	Cobalt, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.00516	0.00400
40	UA	E003	Fluoride, total	mg/L	03/31/21 - 11/29/23	11	82	CI around median	0.1	1.14
40	UA	E003	Lead, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0005	0.00600
40	UA	E003	Lithium, total	mg/L	03/31/21 - 11/29/23	11	0	CI around median	0.74	0.0300
40	UA	E003	Mercury, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0002	0.0002
40	UA	E003	Molybdenum, total	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	0.0587	0.0200
40	UA	E003	pH (field)	SU	03/31/21 - 11/29/23	10	0	CI around mean	6.4/6.6	6.8/7.8
40	UA	E003	Radium 226 + Radium 228, total	pCi/L	03/31/21 - 11/29/23	10	0	CI around mean	0.665	1.90
40	UA	E003	Selenium, total	mg/L	03/31/21 - 11/29/23	11	100	All ND - Last	0.0025	0.001
40	UA	E003	Sulfate, total	mg/L	03/31/21 - 11/29/23	11	0	CB around linear reg	2,860	227
40	UA	E003	Thallium, total	mg/L	03/31/21 - 11/29/23	11	82	CI around median	0.002	0.002
40	UA	E003	Total Dissolved Solids	mg/L	03/31/21 - 11/29/23	11	0	CI around mean	4,360	746
41	UA	E003	Antimony, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.003	0.00100
41	UA	E003	Arsenic, total	mg/L	03/30/21 - 11/27/23	11	0	CB around linear reg	0.00931	0.0600
41	UA	E003	Barium, total	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	0.23	0.520

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
845 QUARTERLY REPORT
VERMILION POWER PLANT
NORTH ASH POND AND OLD EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
41	UA	E003	Beryllium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.001	0.001
41	UA	E003	Boron, total	mg/L	03/30/21 - 11/27/23	11	0	CB around linear reg	2.75	2.45
41	UA	E003	Cadmium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0005	0.001
41	UA	E003	Chloride, total	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	53.2	82.0
41	UA	E003	Chromium, total	mg/L	03/30/21 - 11/27/23	11	91	CI around median	0.0015	0.0200
41	UA	E003	Cobalt, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.001	0.00400
41	UA	E003	Fluoride, total	mg/L	03/30/21 - 11/27/23	11	9	CI around median	0.41	1.14
41	UA	E003	Lead, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0005	0.00600
41	UA	E003	Lithium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.005	0.0300
41	UA	E003	Mercury, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0002	0.0002
41	UA	E003	Molybdenum, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.005	0.0200
41	UA	E003	pH (field)	SU	03/30/21 - 11/27/23	11	0	CI around mean	7.0/7.1	6.8/7.8
41	UA	E003	Radium 226 + Radium 228, total	pCi/L	04/20/21 - 11/27/23	9	0	CI around mean	1.07	1.90
41	UA	E003	Selenium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.0025	0.001
41	UA	E003	Sulfate, total	mg/L	03/30/21 - 11/27/23	11	82	CI around median	1	227
41	UA	E003	Thallium, total	mg/L	03/30/21 - 11/27/23	11	100	All ND - Last	0.002	0.002
41	UA	E003	Total Dissolved Solids	mg/L	03/30/21 - 11/27/23	11	0	CI around mean	596	746

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 4, 2023
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OAKWOOD, IL

Notes:
Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value
HSU = hydrostratigraphic unit:

LGU = Lower Groundwater Unit

UA = Uppermost Aquifer

mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Most recent sample = Result for the most recently collected sample used due to insufficient data

Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits of the background determination