



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

January 15, 2023

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.) Section (§) 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 3, 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.

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). 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,

A handwritten signature in blue ink that reads "Dianna Tickner".

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

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 3, 2023, North Ash Pond (NAP) and Old East Ash Pond (OEAP), Vermilion Power Plant, Oakwood, Illinois

**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**

January 15, 2023

Samples were collected on September 20-26, 2023 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on November 16, 2023.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 3, 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 3, 2023 sampling event. Monitoring well 07R was not sampled due to an obstruction above the screen interval and potential presence of organic material in the well that fouled the tubing.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan¹ provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 3, 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.

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

- Table 1 Field Parameters and Analytical Results - Quarter 3, 2023
- Table 2 Comparison of Statistical Results to GWPS - Quarter 3, 2023

FIGURES

- Figure 1 35 I.A.C. § 845 Groundwater Monitoring Well Network

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.*

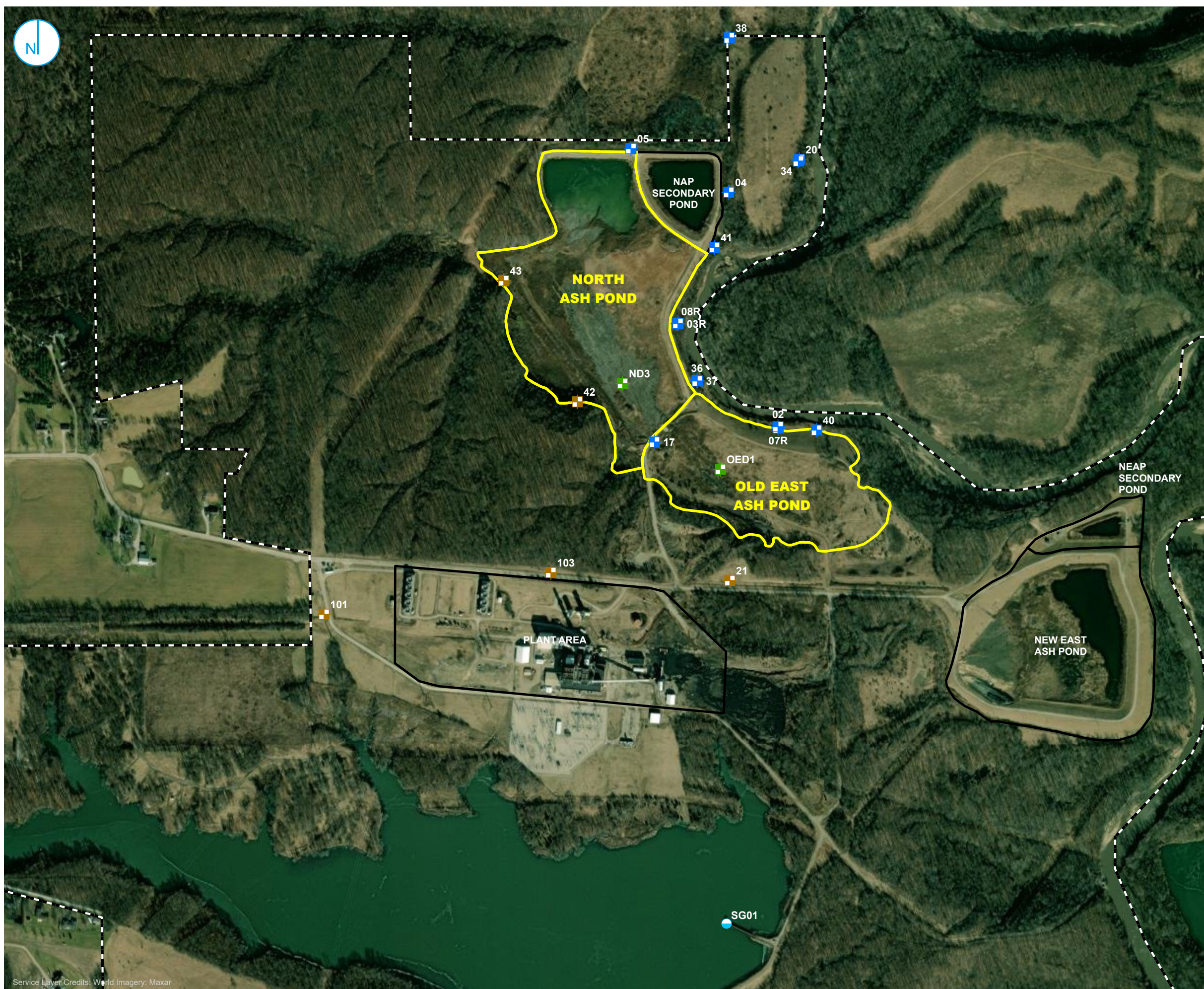
ATTACHMENTS

Attachment A Groundwater Elevation Data - Quarter 3, 2023

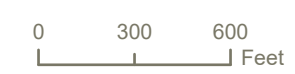
Attachment B Laboratory Reports and Field Data Sheets - Quarter 3, 2023

Attachment C Comparison of Statistical Results to Background - Quarter 3, 2023

FIGURES



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



35 I.A.C. § 845 MONITORING WELL LOCATION MAP

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

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 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	E002	09/20/2023	Antimony, total	0.0013 U	mg/L
21	Background	E002	09/20/2023	Arsenic, total	0.0500	mg/L
21	Background	E002	09/20/2023	Barium, total	0.110	mg/L
21	Background	E002	09/20/2023	Beryllium, total	0.00053 U	mg/L
21	Background	E002	09/20/2023	Boron, total	0.870	mg/L
21	Background	E002	09/20/2023	Cadmium, total	0.00017 U	mg/L
21	Background	E002	09/20/2023	Calcium, total	54.0	mg/L
21	Background	E002	09/20/2023	Chloride, total	1.60 J+	mg/L
21	Background	E002	09/20/2023	Chromium, total	0.0011 U	mg/L
21	Background	E002	09/20/2023	Cobalt, total	0.0004 U	mg/L
21	Background	E002	09/20/2023	Dissolved Oxygen	0.380	mg/L
21	Background	E002	09/20/2023	Fluoride, total	1.00	mg/L
21	Background	E002	09/20/2023	Lead, total	0.00019 U	mg/L
21	Background	E002	09/20/2023	Lithium, total	0.002 U	mg/L
21	Background	E002	09/20/2023	Mercury, total	0.000079 U	mg/L
21	Background	E002	09/20/2023	Molybdenum, total	0.0039 J	mg/L
21	Background	E002	09/20/2023	Oxidation Reduction Potential	-116	mV
21	Background	E002	09/20/2023	pH (field)	7.4	SU
21	Background	E002	09/20/2023	Selenium, total	0.00098 U	mg/L
21	Background	E002	09/20/2023	Specific Conductance @ 25C (field)	704	micromhos/cm
21	Background	E002	09/20/2023	Sulfate, total	3.00	mg/L
21	Background	E002	09/20/2023	Temperature	13.4	degrees C
21	Background	E002	09/20/2023	Thallium, total	0.00057 U	mg/L
21	Background	E002	09/20/2023	Total Dissolved Solids	330	mg/L
21	Background	E002	09/20/2023	Turbidity, field	7.94	NTU
42	Background	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
42	Background	E002	09/21/2023	Arsenic, total	0.0230	mg/L
42	Background	E002	09/21/2023	Barium, total	0.140	mg/L
42	Background	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L
42	Background	E002	09/21/2023	Boron, total	0.650	mg/L
42	Background	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
42	Background	E002	09/21/2023	Calcium, total	81.0	mg/L
42	Background	E002	09/21/2023	Chloride, total	16.0	mg/L
42	Background	E002	09/21/2023	Chromium, total	0.0011 U	mg/L
42	Background	E002	09/21/2023	Cobalt, total	0.0004 U	mg/L
42	Background	E002	09/21/2023	Dissolved Oxygen	0.730	mg/L
42	Background	E002	09/21/2023	Fluoride, total	0.54 J	mg/L
42	Background	E002	09/21/2023	Lead, total	0.00019 U	mg/L
42	Background	E002	09/21/2023	Lithium, total	0.0044 J	mg/L
42	Background	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
42	Background	E002	09/21/2023	Molybdenum, total	0.0025 U	mg/L
42	Background	E002	09/21/2023	Oxidation Reduction Potential	-124	mV
42	Background	E002	09/21/2023	pH (field)	7.4	SU
42	Background	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
42	Background	E002	09/21/2023	Specific Conductance @ 25C (field)	1,015	micromhos/cm
42	Background	E002	09/21/2023	Sulfate, total	52.0	mg/L

TABLE 1.
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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
42	Background	E002	09/21/2023	Temperature	11.7	degrees C
42	Background	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
42	Background	E002	09/21/2023	Total Dissolved Solids	570	mg/L
42	Background	E002	09/21/2023	Turbidity, field	5.72	NTU
43	Background	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
43	Background	E002	09/21/2023	Arsenic, total	0.00910	mg/L
43	Background	E002	09/21/2023	Barium, total	0.470	mg/L
43	Background	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L
43	Background	E002	09/21/2023	Boron, total	1.10	mg/L
43	Background	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
43	Background	E002	09/21/2023	Calcium, total	61.0	mg/L
43	Background	E002	09/21/2023	Chloride, total	71.0	mg/L
43	Background	E002	09/21/2023	Chromium, total	0.0011 U	mg/L
43	Background	E002	09/21/2023	Cobalt, total	0.0004 U	mg/L
43	Background	E002	09/21/2023	Dissolved Oxygen	0.300	mg/L
43	Background	E002	09/21/2023	Fluoride, total	0.52 J	mg/L
43	Background	E002	09/21/2023	Lead, total	0.0005 UJ	mg/L
43	Background	E002	09/21/2023	Lithium, total	0.00920	mg/L
43	Background	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
43	Background	E002	09/21/2023	Molybdenum, total	0.0025 U	mg/L
43	Background	E002	09/21/2023	Oxidation Reduction Potential	-128	mV
43	Background	E002	09/21/2023	pH (field)	7.4	SU
43	Background	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
43	Background	E002	09/21/2023	Specific Conductance @ 25C (field)	1,159	micromhos/cm
43	Background	E002	09/21/2023	Sulfate, total	1.90	mg/L
43	Background	E002	09/21/2023	Temperature	12.6	degrees C
43	Background	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
43	Background	E002	09/21/2023	Total Dissolved Solids	620	mg/L
43	Background	E002	09/21/2023	Turbidity, field	7.43	NTU
101	Background	E002	09/25/2023	Antimony, total	0.0013 U	mg/L
101	Background	E002	09/25/2023	Arsenic, total	0.0510	mg/L
101	Background	E002	09/25/2023	Barium, total	0.130	mg/L
101	Background	E002	09/25/2023	Beryllium, total	0.00053 U	mg/L
101	Background	E002	09/25/2023	Boron, total	2.10	mg/L
101	Background	E002	09/25/2023	Cadmium, total	0.00017 U	mg/L
101	Background	E002	09/25/2023	Chloride, total	10.0	mg/L
101	Background	E002	09/25/2023	Chromium, total	0.0024 J	mg/L
101	Background	E002	09/25/2023	Cobalt, total	0.00069 J	mg/L
101	Background	E002	09/25/2023	Dissolved Oxygen	0.330	mg/L
101	Background	E002	09/25/2023	Fluoride, total	0.82 J	mg/L
101	Background	E002	09/25/2023	Lead, total	0.000720 J+	mg/L
101	Background	E002	09/25/2023	Lithium, total	0.0041 J	mg/L
101	Background	E002	09/25/2023	Mercury, total	0.000079 U	mg/L
101	Background	E002	09/25/2023	Molybdenum, total	0.0025 U	mg/L
101	Background	E002	09/25/2023	Oxidation Reduction Potential	-140	mV
101	Background	E002	09/25/2023	pH (field)	7.3	SU

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 NORTH ASH POND AND OLD EAST ASH POND
 OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
101	Background	E002	09/25/2023	Selenium, total	0.00098 U	mg/L
101	Background	E002	09/25/2023	Specific Conductance @ 25C (field)	737	micromhos/cm
101	Background	E002	09/25/2023	Sulfate, total	7.50	mg/L
101	Background	E002	09/25/2023	Temperature	18.9	degrees C
101	Background	E002	09/25/2023	Thallium, total	0.00057 U	mg/L
101	Background	E002	09/25/2023	Total Dissolved Solids	490	mg/L
103	Background	E002	09/26/2023	Antimony, total	0.0013 U	mg/L
103	Background	E002	09/26/2023	Arsenic, total	0.00220 J+	mg/L
103	Background	E002	09/26/2023	Barium, total	0.0250	mg/L
103	Background	E002	09/26/2023	Beryllium, total	0.00053 U	mg/L
103	Background	E002	09/26/2023	Boron, total	0.400	mg/L
103	Background	E002	09/26/2023	Cadmium, total	0.00017 U	mg/L
103	Background	E002	09/26/2023	Chloride, total	8.00	mg/L
103	Background	E002	09/26/2023	Chromium, total	0.0011 U	mg/L
103	Background	E002	09/26/2023	Cobalt, total	0.00140	mg/L
103	Background	E002	09/26/2023	Dissolved Oxygen	4.75	mg/L
103	Background	E002	09/26/2023	Fluoride, total	0.54 J	mg/L
103	Background	E002	09/26/2023	Lead, total	0.0005 UJ	mg/L
103	Background	E002	09/26/2023	Lithium, total	0.0760	mg/L
103	Background	E002	09/26/2023	Mercury, total	0.000079 U	mg/L
103	Background	E002	09/26/2023	Molybdenum, total	0.00650	mg/L
103	Background	E002	09/26/2023	Oxidation Reduction Potential	85.1	mV
103	Background	E002	09/26/2023	pH (field)	7.0	SU
103	Background	E002	09/26/2023	Selenium, total	0.00098 U	mg/L
103	Background	E002	09/26/2023	Specific Conductance @ 25C (field)	2,328	micromhos/cm
103	Background	E002	09/26/2023	Sulfate, total	1,100	mg/L
103	Background	E002	09/26/2023	Temperature	18.0	degrees C
103	Background	E002	09/26/2023	Thallium, total	0.00057 U	mg/L
103	Background	E002	09/26/2023	Total Dissolved Solids	2,100	mg/L
103	Background	E002	09/26/2023	Turbidity, field	37.4	NTU
02	Compliance	E002	09/20/2023	Antimony, total	0.0013 U	mg/L
02	Compliance	E002	09/20/2023	Arsenic, total	0.00740	mg/L
02	Compliance	E002	09/20/2023	Barium, total	0.190	mg/L
02	Compliance	E002	09/20/2023	Beryllium, total	0.00053 U	mg/L
02	Compliance	E002	09/20/2023	Boron, total	0.300 J+	mg/L
02	Compliance	E002	09/20/2023	Cadmium, total	0.00017 U	mg/L
02	Compliance	E002	09/20/2023	Calcium, total	79.0	mg/L
02	Compliance	E002	09/20/2023	Chloride, total	48.0	mg/L
02	Compliance	E002	09/20/2023	Chromium, total	0.0011 U	mg/L
02	Compliance	E002	09/20/2023	Cobalt, total	0.0004 U	mg/L
02	Compliance	E002	09/20/2023	Dissolved Oxygen	0.0900	mg/L
02	Compliance	E002	09/20/2023	Fluoride, total	0.67 J	mg/L
02	Compliance	E002	09/20/2023	Lead, total	0.00019 U	mg/L
02	Compliance	E002	09/20/2023	Lithium, total	0.0036 J	mg/L
02	Compliance	E002	09/20/2023	Mercury, total	0.000079 U	mg/L
02	Compliance	E002	09/20/2023	Molybdenum, total	0.0025 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 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
02	Compliance	E002	09/20/2023	Oxidation Reduction Potential	-148	mV
02	Compliance	E002	09/20/2023	pH (field)	7.6	SU
02	Compliance	E002	09/20/2023	Selenium, total	0.00098 U	mg/L
02	Compliance	E002	09/20/2023	Specific Conductance @ 25C (field)	780	micromhos/cm
02	Compliance	E002	09/20/2023	Sulfate, total	30.0 J	mg/L
02	Compliance	E002	09/20/2023	Temperature	15.2	degrees C
02	Compliance	E002	09/20/2023	Thallium, total	0.00057 U	mg/L
02	Compliance	E002	09/20/2023	Total Dissolved Solids	570	mg/L
02	Compliance	E002	09/20/2023	Turbidity, field	7.24	NTU
03R	Compliance	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
03R	Compliance	E002	09/21/2023	Arsenic, total	0.00490	mg/L
03R	Compliance	E002	09/21/2023	Barium, total	0.290	mg/L
03R	Compliance	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L
03R	Compliance	E002	09/21/2023	Boron, total	26.0	mg/L
03R	Compliance	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
03R	Compliance	E002	09/21/2023	Calcium, total	140	mg/L
03R	Compliance	E002	09/21/2023	Chloride, total	24.0	mg/L
03R	Compliance	E002	09/21/2023	Chromium, total	0.018 J	mg/L
03R	Compliance	E002	09/21/2023	Cobalt, total	0.00052 J	mg/L
03R	Compliance	E002	09/21/2023	Dissolved Oxygen	0.150	mg/L
03R	Compliance	E002	09/21/2023	Fluoride, total	0.44 J	mg/L
03R	Compliance	E002	09/21/2023	Lead, total	0.000510 J+	mg/L
03R	Compliance	E002	09/21/2023	Lithium, total	0.0038 J	mg/L
03R	Compliance	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
03R	Compliance	E002	09/21/2023	Molybdenum, total	0.320	mg/L
03R	Compliance	E002	09/21/2023	Oxidation Reduction Potential	-110	mV
03R	Compliance	E002	09/21/2023	pH (field)	7.4	SU
03R	Compliance	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
03R	Compliance	E002	09/21/2023	Specific Conductance @ 25C (field)	1,613	micromhos/cm
03R	Compliance	E002	09/21/2023	Sulfate, total	540	mg/L
03R	Compliance	E002	09/21/2023	Temperature	13.1	degrees C
03R	Compliance	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
03R	Compliance	E002	09/21/2023	Total Dissolved Solids	1,200	mg/L
03R	Compliance	E002	09/21/2023	Turbidity, field	22.5	NTU
04	Compliance	E002	09/20/2023	Antimony, total	0.0013 U	mg/L
04	Compliance	E002	09/20/2023	Arsenic, total	0.00610	mg/L
04	Compliance	E002	09/20/2023	Barium, total	0.210	mg/L
04	Compliance	E002	09/20/2023	Beryllium, total	0.00053 U	mg/L
04	Compliance	E002	09/20/2023	Boron, total	10.0	mg/L
04	Compliance	E002	09/20/2023	Cadmium, total	0.00017 U	mg/L
04	Compliance	E002	09/20/2023	Calcium, total	60.0	mg/L
04	Compliance	E002	09/20/2023	Chloride, total	9.40	mg/L
04	Compliance	E002	09/20/2023	Chromium, total	0.0057 U	mg/L
04	Compliance	E002	09/20/2023	Cobalt, total	0.00059 J	mg/L
04	Compliance	E002	09/20/2023	Dissolved Oxygen	0.710	mg/L
04	Compliance	E002	09/20/2023	Fluoride, total	0.39 J	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
04	Compliance	E002	09/20/2023	Lead, total	0.00019 U	mg/L
04	Compliance	E002	09/20/2023	Lithium, total	0.0490	mg/L
04	Compliance	E002	09/20/2023	Mercury, total	0.000079 U	mg/L
04	Compliance	E002	09/20/2023	Molybdenum, total	0.0380	mg/L
04	Compliance	E002	09/20/2023	Oxidation Reduction Potential	-139	mV
04	Compliance	E002	09/20/2023	pH (field)	7.6	SU
04	Compliance	E002	09/20/2023	Selenium, total	0.00098 U	mg/L
04	Compliance	E002	09/20/2023	Specific Conductance @ 25C (field)	196	micromhos/cm
04	Compliance	E002	09/20/2023	Sulfate, total	21.0	mg/L
04	Compliance	E002	09/20/2023	Temperature	15.6	degrees C
04	Compliance	E002	09/20/2023	Thallium, total	0.00057 U	mg/L
04	Compliance	E002	09/20/2023	Total Dissolved Solids	330	mg/L
04	Compliance	E002	09/20/2023	Turbidity, field	0.980	NTU
05	Compliance	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
05	Compliance	E002	09/21/2023	Arsenic, total	0.001 UJ	mg/L
05	Compliance	E002	09/21/2023	Barium, total	0.0230	mg/L
05	Compliance	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L
05	Compliance	E002	09/21/2023	Boron, total	20.0	mg/L
05	Compliance	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
05	Compliance	E002	09/21/2023	Calcium, total	88.0	mg/L
05	Compliance	E002	09/21/2023	Chloride, total	7.20	mg/L
05	Compliance	E002	09/21/2023	Chromium, total	0.014 J	mg/L
05	Compliance	E002	09/21/2023	Cobalt, total	0.00140	mg/L
05	Compliance	E002	09/21/2023	Dissolved Oxygen	0.0100	mg/L
05	Compliance	E002	09/21/2023	Fluoride, total	0.68 J	mg/L
05	Compliance	E002	09/21/2023	Lead, total	0.0005 UJ	mg/L
05	Compliance	E002	09/21/2023	Lithium, total	0.0890	mg/L
05	Compliance	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
05	Compliance	E002	09/21/2023	Molybdenum, total	0.0400	mg/L
05	Compliance	E002	09/21/2023	Oxidation Reduction Potential	-15.1	mV
05	Compliance	E002	09/21/2023	pH (field)	7.5	SU
05	Compliance	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
05	Compliance	E002	09/21/2023	Specific Conductance @ 25C (field)	725	micromhos/cm
05	Compliance	E002	09/21/2023	Sulfate, total	240	mg/L
05	Compliance	E002	09/21/2023	Temperature	14.9	degrees C
05	Compliance	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
05	Compliance	E002	09/21/2023	Total Dissolved Solids	610	mg/L
05	Compliance	E002	09/21/2023	Turbidity, field	19.1	NTU
08R	Compliance	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
08R	Compliance	E002	09/21/2023	Arsenic, total	0.0370	mg/L
08R	Compliance	E002	09/21/2023	Barium, total	0.0520	mg/L
08R	Compliance	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L
08R	Compliance	E002	09/21/2023	Boron, total	36.0	mg/L
08R	Compliance	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
08R	Compliance	E002	09/21/2023	Calcium, total	270	mg/L
08R	Compliance	E002	09/21/2023	Chloride, total	6.10	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 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
08R	Compliance	E002	09/21/2023	Chromium, total	0.011 U	mg/L
08R	Compliance	E002	09/21/2023	Cobalt, total	0.00049 J	mg/L
08R	Compliance	E002	09/21/2023	Dissolved Oxygen	0.350	mg/L
08R	Compliance	E002	09/21/2023	Fluoride, total	0.19 U	mg/L
08R	Compliance	E002	09/21/2023	Lead, total	0.0005 UJ	mg/L
08R	Compliance	E002	09/21/2023	Lithium, total	0.370	mg/L
08R	Compliance	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
08R	Compliance	E002	09/21/2023	Molybdenum, total	0.270	mg/L
08R	Compliance	E002	09/21/2023	Oxidation Reduction Potential	-118	mV
08R	Compliance	E002	09/21/2023	pH (field)	8.0	SU
08R	Compliance	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
08R	Compliance	E002	09/21/2023	Specific Conductance @ 25C (field)	1,686	micromhos/cm
08R	Compliance	E002	09/21/2023	Sulfate, total	830	mg/L
08R	Compliance	E002	09/21/2023	Temperature	15.0	degrees C
08R	Compliance	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
08R	Compliance	E002	09/21/2023	Total Dissolved Solids	1,500	mg/L
08R	Compliance	E002	09/21/2023	Turbidity, field	35.5	NTU
17	Compliance	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
17	Compliance	E002	09/21/2023	Arsenic, total	0.00380	mg/L
17	Compliance	E002	09/21/2023	Barium, total	0.0290	mg/L
17	Compliance	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L
17	Compliance	E002	09/21/2023	Boron, total	5.00	mg/L
17	Compliance	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
17	Compliance	E002	09/21/2023	Calcium, total	270	mg/L
17	Compliance	E002	09/21/2023	Chloride, total	33.0	mg/L
17	Compliance	E002	09/21/2023	Chromium, total	0.0011 U	mg/L
17	Compliance	E002	09/21/2023	Cobalt, total	0.00095 J	mg/L
17	Compliance	E002	09/21/2023	Dissolved Oxygen	1.57	mg/L
17	Compliance	E002	09/21/2023	Fluoride, total	0.28 J	mg/L
17	Compliance	E002	09/21/2023	Lead, total	0.00019 U	mg/L
17	Compliance	E002	09/21/2023	Lithium, total	0.0170	mg/L
17	Compliance	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
17	Compliance	E002	09/21/2023	Molybdenum, total	0.0035 J	mg/L
17	Compliance	E002	09/21/2023	Oxidation Reduction Potential	-70.5	mV
17	Compliance	E002	09/21/2023	pH (field)	7.1	SU
17	Compliance	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
17	Compliance	E002	09/21/2023	Specific Conductance @ 25C (field)	2,171	micromhos/cm
17	Compliance	E002	09/21/2023	Sulfate, total	990	mg/L
17	Compliance	E002	09/21/2023	Temperature	14.8	degrees C
17	Compliance	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
17	Compliance	E002	09/21/2023	Total Dissolved Solids	1,900	mg/L
17	Compliance	E002	09/21/2023	Turbidity, field	8.34	NTU
20	Compliance	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
20	Compliance	E002	09/21/2023	Arsenic, total	0.00160 J+	mg/L
20	Compliance	E002	09/21/2023	Barium, total	0.0210	mg/L
20	Compliance	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 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
20	Compliance	E002	09/21/2023	Boron, total	1.60	mg/L
20	Compliance	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
20	Compliance	E002	09/21/2023	Calcium, total	91.0	mg/L
20	Compliance	E002	09/21/2023	Chloride, total	4.30	mg/L
20	Compliance	E002	09/21/2023	Chromium, total	0.0011 U	mg/L
20	Compliance	E002	09/21/2023	Cobalt, total	0.00089 J	mg/L
20	Compliance	E002	09/21/2023	Dissolved Oxygen	0.0300	mg/L
20	Compliance	E002	09/21/2023	Fluoride, total	0.23 J	mg/L
20	Compliance	E002	09/21/2023	Lead, total	0.00019 U	mg/L
20	Compliance	E002	09/21/2023	Lithium, total	0.0260	mg/L
20	Compliance	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
20	Compliance	E002	09/21/2023	Molybdenum, total	0.0025 U	mg/L
20	Compliance	E002	09/21/2023	Oxidation Reduction Potential	-17.3	mV
20	Compliance	E002	09/21/2023	pH (field)	7.0	SU
20	Compliance	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
20	Compliance	E002	09/21/2023	Specific Conductance @ 25C (field)	730	micromhos/cm
20	Compliance	E002	09/21/2023	Sulfate, total	87.0	mg/L
20	Compliance	E002	09/21/2023	Temperature	14.1	degrees C
20	Compliance	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
20	Compliance	E002	09/21/2023	Total Dissolved Solids	440	mg/L
20	Compliance	E002	09/21/2023	Turbidity, field	6.86	NTU
34	Compliance	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
34	Compliance	E002	09/21/2023	Arsenic, total	0.0240	mg/L
34	Compliance	E002	09/21/2023	Barium, total	0.150	mg/L
34	Compliance	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L
34	Compliance	E002	09/21/2023	Boron, total	0.480	mg/L
34	Compliance	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
34	Compliance	E002	09/21/2023	Calcium, total	61.0	mg/L
34	Compliance	E002	09/21/2023	Chloride, total	33.0	mg/L
34	Compliance	E002	09/21/2023	Chromium, total	0.0016 J	mg/L
34	Compliance	E002	09/21/2023	Cobalt, total	0.0004 U	mg/L
34	Compliance	E002	09/21/2023	Dissolved Oxygen	0	mg/L
34	Compliance	E002	09/21/2023	Fluoride, total	0.65 J	mg/L
34	Compliance	E002	09/21/2023	Lead, total	0.000670 J+	mg/L
34	Compliance	E002	09/21/2023	Lithium, total	0.0025 J	mg/L
34	Compliance	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
34	Compliance	E002	09/21/2023	Molybdenum, total	0.0025 U	mg/L
34	Compliance	E002	09/21/2023	Oxidation Reduction Potential	-137	mV
34	Compliance	E002	09/21/2023	pH (field)	7.0	SU
34	Compliance	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
34	Compliance	E002	09/21/2023	Specific Conductance @ 25C (field)	859	micromhos/cm
34	Compliance	E002	09/21/2023	Sulfate, total	0.21 U	mg/L
34	Compliance	E002	09/21/2023	Temperature	12.6	degrees C
34	Compliance	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
34	Compliance	E002	09/21/2023	Total Dissolved Solids	480	mg/L
34	Compliance	E002	09/21/2023	Turbidity, field	45.1	NTU

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 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
36	Compliance	E002	09/20/2023	Antimony, total	0.0013 U	mg/L
36	Compliance	E002	09/20/2023	Arsenic, total	0.00380	mg/L
36	Compliance	E002	09/20/2023	Barium, total	0.0880	mg/L
36	Compliance	E002	09/20/2023	Beryllium, total	0.00053 U	mg/L
36	Compliance	E002	09/20/2023	Boron, total	15.0	mg/L
36	Compliance	E002	09/20/2023	Cadmium, total	0.00017 U	mg/L
36	Compliance	E002	09/20/2023	Calcium, total	310	mg/L
36	Compliance	E002	09/20/2023	Chloride, total	17.0	mg/L
36	Compliance	E002	09/20/2023	Chromium, total	0.011 U	mg/L
36	Compliance	E002	09/20/2023	Cobalt, total	0.00072 J	mg/L
36	Compliance	E002	09/20/2023	Dissolved Oxygen	0.0200	mg/L
36	Compliance	E002	09/20/2023	Fluoride, total	0.31 J	mg/L
36	Compliance	E002	09/20/2023	Lead, total	0.00019 U	mg/L
36	Compliance	E002	09/20/2023	Lithium, total	0.220	mg/L
36	Compliance	E002	09/20/2023	Mercury, total	0.000079 U	mg/L
36	Compliance	E002	09/20/2023	Molybdenum, total	0.180	mg/L
36	Compliance	E002	09/20/2023	Oxidation Reduction Potential	-110	mV
36	Compliance	E002	09/20/2023	pH (field)	7.1	SU
36	Compliance	E002	09/20/2023	Selenium, total	0.00098 U	mg/L
36	Compliance	E002	09/20/2023	Specific Conductance @ 25C (field)	1,977	micromhos/cm
36	Compliance	E002	09/20/2023	Sulfate, total	1,000	mg/L
36	Compliance	E002	09/20/2023	Temperature	14.7	degrees C
36	Compliance	E002	09/20/2023	Thallium, total	0.00057 U	mg/L
36	Compliance	E002	09/20/2023	Total Dissolved Solids	1,700	mg/L
36	Compliance	E002	09/20/2023	Turbidity, field	3.49	NTU
37	Compliance	E002	09/20/2023	Antimony, total	0.0013 U	mg/L
37	Compliance	E002	09/20/2023	Arsenic, total	0.0340	mg/L
37	Compliance	E002	09/20/2023	Barium, total	0.310	mg/L
37	Compliance	E002	09/20/2023	Beryllium, total	0.00053 U	mg/L
37	Compliance	E002	09/20/2023	Boron, total	1.70	mg/L
37	Compliance	E002	09/20/2023	Cadmium, total	0.00017 U	mg/L
37	Compliance	E002	09/20/2023	Calcium, total	110	mg/L
37	Compliance	E002	09/20/2023	Chloride, total	43.0	mg/L
37	Compliance	E002	09/20/2023	Chromium, total	0.0011 J	mg/L
37	Compliance	E002	09/20/2023	Cobalt, total	0.0004 U	mg/L
37	Compliance	E002	09/20/2023	Dissolved Oxygen	0.340	mg/L
37	Compliance	E002	09/20/2023	Fluoride, total	0.54 J	mg/L
37	Compliance	E002	09/20/2023	Lead, total	0.0005 UJ	mg/L
37	Compliance	E002	09/20/2023	Lithium, total	0.0025 J	mg/L
37	Compliance	E002	09/20/2023	Mercury, total	0.000079 U	mg/L
37	Compliance	E002	09/20/2023	Molybdenum, total	0.0025 U	mg/L
37	Compliance	E002	09/20/2023	Oxidation Reduction Potential	-120	mV
37	Compliance	E002	09/20/2023	pH (field)	6.9	SU
37	Compliance	E002	09/20/2023	Selenium, total	0.00098 U	mg/L
37	Compliance	E002	09/20/2023	Specific Conductance @ 25C (field)	1,320	micromhos/cm
37	Compliance	E002	09/20/2023	Sulfate, total	310	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 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
37	Compliance	E002	09/20/2023	Temperature	14.9	degrees C
37	Compliance	E002	09/20/2023	Thallium, total	0.00057 U	mg/L
37	Compliance	E002	09/20/2023	Total Dissolved Solids	900	mg/L
37	Compliance	E002	09/20/2023	Turbidity, field	11.2	NTU
38	Compliance	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
38	Compliance	E002	09/21/2023	Arsenic, total	0.0280	mg/L
38	Compliance	E002	09/21/2023	Barium, total	0.190	mg/L
38	Compliance	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L
38	Compliance	E002	09/21/2023	Boron, total	0.420	mg/L
38	Compliance	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
38	Compliance	E002	09/21/2023	Calcium, total	64.0	mg/L
38	Compliance	E002	09/21/2023	Chloride, total	17.0	mg/L
38	Compliance	E002	09/21/2023	Chromium, total	0.0011 U	mg/L
38	Compliance	E002	09/21/2023	Cobalt, total	0.00041 J	mg/L
38	Compliance	E002	09/21/2023	Dissolved Oxygen	0.0300	mg/L
38	Compliance	E002	09/21/2023	Fluoride, total	0.46 J	mg/L
38	Compliance	E002	09/21/2023	Lead, total	0.0005 UJ	mg/L
38	Compliance	E002	09/21/2023	Lithium, total	0.0027 J	mg/L
38	Compliance	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
38	Compliance	E002	09/21/2023	Molybdenum, total	0.0025 U	mg/L
38	Compliance	E002	09/21/2023	Oxidation Reduction Potential	-122	mV
38	Compliance	E002	09/21/2023	pH (field)	7.0	SU
38	Compliance	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
38	Compliance	E002	09/21/2023	Specific Conductance @ 25C (field)	1,068	micromhos/cm
38	Compliance	E002	09/21/2023	Sulfate, total	1.20	mg/L
38	Compliance	E002	09/21/2023	Temperature	12.5	degrees C
38	Compliance	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
38	Compliance	E002	09/21/2023	Total Dissolved Solids	560	mg/L
38	Compliance	E002	09/21/2023	Turbidity, field	9.88	NTU
40	Compliance	E002	09/21/2023	Antimony, total	0.0013 U	mg/L
40	Compliance	E002	09/21/2023	Arsenic, total	0.0180	mg/L
40	Compliance	E002	09/21/2023	Barium, total	0.0290	mg/L
40	Compliance	E002	09/21/2023	Beryllium, total	0.00053 U	mg/L
40	Compliance	E002	09/21/2023	Boron, total	23.0	mg/L
40	Compliance	E002	09/21/2023	Cadmium, total	0.00017 U	mg/L
40	Compliance	E002	09/21/2023	Calcium, total	490	mg/L
40	Compliance	E002	09/21/2023	Chloride, total	8.50	mg/L
40	Compliance	E002	09/21/2023	Chromium, total	0.0011 U	mg/L
40	Compliance	E002	09/21/2023	Cobalt, total	0.00600	mg/L
40	Compliance	E002	09/21/2023	Fluoride, total	0.19 U	mg/L
40	Compliance	E002	09/21/2023	Lead, total	0.00019 U	mg/L
40	Compliance	E002	09/21/2023	Lithium, total	0.760	mg/L
40	Compliance	E002	09/21/2023	Mercury, total	0.000079 U	mg/L
40	Compliance	E002	09/21/2023	Molybdenum, total	0.0550	mg/L
40	Compliance	E002	09/21/2023	Selenium, total	0.00098 U	mg/L
40	Compliance	E002	09/21/2023	Sulfate, total	3,200	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 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
40	Compliance	E002	09/21/2023	Thallium, total	0.00057 U	mg/L
40	Compliance	E002	09/21/2023	Total Dissolved Solids	5,000	mg/L
40	Compliance	E002	09/21/2023	Turbidity, field	2.30	NTU
41	Compliance	E002	09/20/2023	Antimony, total	0.0013 U	mg/L
41	Compliance	E002	09/20/2023	Arsenic, total	0.0110	mg/L
41	Compliance	E002	09/20/2023	Barium, total	0.220	mg/L
41	Compliance	E002	09/20/2023	Beryllium, total	0.00053 U	mg/L
41	Compliance	E002	09/20/2023	Boron, total	3.00	mg/L
41	Compliance	E002	09/20/2023	Cadmium, total	0.00017 U	mg/L
41	Compliance	E002	09/20/2023	Calcium, total	77.0	mg/L
41	Compliance	E002	09/20/2023	Chloride, total	53.0	mg/L
41	Compliance	E002	09/20/2023	Chromium, total	0.0011 U	mg/L
41	Compliance	E002	09/20/2023	Cobalt, total	0.0004 U	mg/L
41	Compliance	E002	09/20/2023	Dissolved Oxygen	1.03	mg/L
41	Compliance	E002	09/20/2023	Fluoride, total	0.46 J	mg/L
41	Compliance	E002	09/20/2023	Lead, total	0.0005 UJ	mg/L
41	Compliance	E002	09/20/2023	Lithium, total	0.002 U	mg/L
41	Compliance	E002	09/20/2023	Mercury, total	0.000079 U	mg/L
41	Compliance	E002	09/20/2023	Molybdenum, total	0.0025 U	mg/L
41	Compliance	E002	09/20/2023	Oxidation Reduction Potential	-105	mV
41	Compliance	E002	09/20/2023	pH (field)	7.1	SU
41	Compliance	E002	09/20/2023	Selenium, total	0.00098 U	mg/L
41	Compliance	E002	09/20/2023	Specific Conductance @ 25C (field)	1,171	micromhos/cm
41	Compliance	E002	09/20/2023	Sulfate, total	0.21 U	mg/L
41	Compliance	E002	09/20/2023	Temperature	14.1	degrees C
41	Compliance	E002	09/20/2023	Thallium, total	0.00057 U	mg/L
41	Compliance	E002	09/20/2023	Total Dissolved Solids	650	mg/L
41	Compliance	E002	09/20/2023	Turbidity, field	15.9	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 3, 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	E002	Antimony, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
02	LGU	E002	Arsenic, total	mg/L	03/31/21 - 09/20/23	10	10	CI around mean	0.0052	0.0600	Background	No Exceedance
02	LGU	E002	Barium, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.192	2.0	Standard	No Exceedance
02	LGU	E002	Beryllium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
02	LGU	E002	Boron, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.304	2.45	Background	No Exceedance
02	LGU	E002	Cadmium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
02	LGU	E002	Chloride, total	mg/L	03/31/21 - 09/20/23	10	0	CB around linear reg	30.6	200	Standard	No Exceedance
02	LGU	E002	Chromium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.005	0.1	Standard	No Exceedance
02	LGU	E002	Cobalt, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.006	Standard	No Exceedance
02	LGU	E002	Fluoride, total	mg/L	03/31/21 - 09/20/23	10	10	CI around mean	0.481	4.0	Standard	No Exceedance
02	LGU	E002	Lead, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
02	LGU	E002	Lithium, total	mg/L	03/31/21 - 09/20/23	10	40	CI around mean	0.00278	0.04	Standard	No Exceedance
02	LGU	E002	Mercury, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
02	LGU	E002	Molybdenum, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.005	0.1	Standard	No Exceedance
02	LGU	E002	pH (field)	SU	03/31/21 - 09/20/23	10	0	CI around mean	7.3/7.7	6.5/9.0	Standard/Standard	No Exceedance
02	LGU	E002	Selenium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
02	LGU	E002	Sulfate, total	mg/L	03/31/21 - 09/20/23	10	0	CB around linear reg	-17.7	400	Standard	No Exceedance
02	LGU	E002	Thallium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
02	LGU	E002	Total Dissolved Solids	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	547	1,200	Standard	No Exceedance
03R	LGU	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
03R	LGU	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	0	CI around geomean	0.00456	0.0600	Background	No Exceedance
03R	LGU	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.282	2.0	Standard	No Exceedance
03R	LGU	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
03R	LGU	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around median	19.1	2.45	Background	Exceedance
03R	LGU	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.001	0.005	Standard	No Exceedance
03R	LGU	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	2	CI around mean	26.3	200	Standard	No Exceedance
03R	LGU	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	80	CI around median	0.0015	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.001	0.006	Standard	No Exceedance
03R	LGU	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	10	CI around mean	0.45	4.0	Standard	No Exceedance
03R	LGU	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	70	CI around median	0.001	0.0075	Standard	No Exceedance
03R	LGU	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.003	0.04	Standard	No Exceedance
03R	LGU	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
03R	LGU	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.169	0.1	Standard	Exceedance
03R	LGU	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CI around mean	7.2/7.4	6.5/9.0	Standard/Standard	No Exceedance
03R	LGU	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
03R	LGU	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	487	400	Standard	Exceedance
03R	LGU	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
03R	LGU	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	1,080	1,200	Standard	No Exceedance
04	UA	E002	Antimony, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
04	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/20/23	10	0	CI around median	0.0053	0.0600	Background	No Exceedance
04	UA	E002	Barium, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	0.23	2.0	Standard	No Exceedance
04	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
04	UA	E002	Boron, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	8.46	2.45	Background	Exceedance
04	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
04	UA	E002	Chloride, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	11.1	200	Standard	No Exceedance
04	UA	E002	Chromium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.025	0.1	Standard	No Exceedance
04	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/20/23	10	90	Most recent sample	0.001	0.006	Standard	No Exceedance
04	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/20/23	10	10	CB around linear reg	0.326	4.0	Standard	No Exceedance
04	UA	E002	Lead, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
04	UA	E002	Lithium, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	0.0478	0.04	Standard	Exceedance
04	UA	E002	Mercury, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
04	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/20/23	10	0	CB around linear reg	0.0294	0.1	Standard	No Exceedance
04	UA	E002	pH (field)	SU	03/30/21 - 09/20/23	10	0	CI around mean	7.3/7.5	6.5/9.0	Standard/Standard	No Exceedance
04	UA	E002	Selenium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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	E002	Sulfate, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	48.2	400	Standard	No Exceedance
04	UA	E002	Thallium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
04	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/20/23	10	0	CI around median	388	1,200	Standard	No Exceedance
05	UA	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
05	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.0600	Background	No Exceedance
05	UA	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.0216	2.0	Standard	No Exceedance
05	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
05	UA	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	18.3	2.45	Background	Exceedance
05	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
05	UA	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	2	CI around median	7.2	200	Standard	No Exceedance
05	UA	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.05	0.1	Standard	No Exceedance
05	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.001	0.006	Standard	No Exceedance
05	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	10	CI around mean	0.508	4.0	Standard	No Exceedance
05	UA	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
05	UA	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around median	0.0886	0.04	Standard	Exceedance
05	UA	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
05	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	0	CB around linear reg	0.0382	0.1	Standard	No Exceedance
05	UA	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CI around mean	7.2/7.4	6.5/9.0	Standard/Standard	No Exceedance
05	UA	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
05	UA	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	221	400	Standard	No Exceedance
05	UA	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
05	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	521	1,200	Standard	No Exceedance
08R	UA	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
08R	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	0	CB around linear reg	0.0274	0.0600	Background	No Exceedance
08R	UA	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.052	2.0	Standard	No Exceedance
08R	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
08R	UA	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around median	14.4	2.45	Background	Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
08R	UA	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	0	CI around median	4	200	Standard	No Exceedance
08R	UA	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.05	0.1	Standard	No Exceedance
08R	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.006	Standard	No Exceedance
08R	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	70	CI around median	0.1	4.0	Standard	No Exceedance
08R	UA	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
08R	UA	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around median	0.13	0.04	Standard	Exceedance
08R	UA	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
08R	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.161	0.1	Standard	Exceedance
08R	UA	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CB around linear reg	6.6/9.5	6.5/9.0	Standard/Standard	No Exceedance
08R	UA	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
08R	UA	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	0	CB around linear reg	329	400	Standard	No Exceedance
08R	UA	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
08R	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	1,000	1,200	Standard	No Exceedance
17	UA	E002	Antimony, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.003	0.006	Standard	No Exceedance
17	UA	E002	Arsenic, total	mg/L	03/31/21 - 09/21/23	7	14	CI around mean	0.00371	0.0600	Background	No Exceedance
17	UA	E002	Barium, total	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	0.025	2.0	Standard	No Exceedance
17	UA	E002	Beryllium, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.001	0.004	Standard	No Exceedance
17	UA	E002	Boron, total	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	2.52	2.45	Background	Exceedance
17	UA	E002	Cadmium, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
17	UA	E002	Chloride, total	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	11.7	200	Standard	No Exceedance
17	UA	E002	Chromium, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.005	0.1	Standard	No Exceedance
17	UA	E002	Cobalt, total	mg/L	03/31/21 - 09/21/23	7	14	CI around mean	0.000858	0.006	Standard	No Exceedance
17	UA	E002	Fluoride, total	mg/L	03/31/21 - 09/21/23	7	14	CI around geomean	0.121	4.0	Standard	No Exceedance
17	UA	E002	Lead, total	mg/L	03/31/21 - 09/21/23	7	71	CI around median	0.0005	0.0075	Standard	No Exceedance
17	UA	E002	Lithium, total	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	0.0171	0.04	Standard	No Exceedance
17	UA	E002	Mercury, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.0002	0.002	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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	E002	Molybdenum, total	mg/L	03/31/21 - 09/21/23	7	43	CI around mean	0.00128	0.1	Standard	No Exceedance
17	UA	E002	pH (field)	SU	03/31/21 - 09/21/23	7	0	CI around mean	6.7/7.0	6.5/9.0	Standard/Standard	No Exceedance
17	UA	E002	Selenium, total	mg/L	03/31/21 - 09/21/23	7	86	CI around median	0.001	0.05	Standard	No Exceedance
17	UA	E002	Sulfate, total	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	866	400	Standard	Exceedance
17	UA	E002	Thallium, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.002	0.002	Standard	No Exceedance
17	UA	E002	Total Dissolved Solids	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	1,480	1,200	Standard	Exceedance
20	UA	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
20	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	70	CI around median	0.001	0.0600	Background	No Exceedance
20	UA	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.0165	2.0	Standard	No Exceedance
20	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
20	UA	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.534	2.45	Background	No Exceedance
20	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
20	UA	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	14	CI around median	4	200	Standard	No Exceedance
20	UA	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.005	0.1	Standard	No Exceedance
20	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.001	0.006	Standard	No Exceedance
20	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	1	4.0	Standard	No Exceedance
20	UA	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
20	UA	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around geomean	0.0192	0.04	Standard	No Exceedance
20	UA	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
20	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.0015	0.1	Standard	No Exceedance
20	UA	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CI around mean	6.9/7.0	6.5/9.0	Standard/Standard	No Exceedance
20	UA	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
20	UA	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	69.6	400	Standard	No Exceedance
20	UA	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
20	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	387	1,200	Standard	No Exceedance
34	LGU	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
34	LGU	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.0238	0.0600	Background	No Exceedance

TABLE 2.
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 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
34	LGU	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.151	2.0	Standard	No Exceedance
34	LGU	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
34	LGU	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.465	2.45	Background	No Exceedance
34	LGU	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
34	LGU	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	32.9	200	Standard	No Exceedance
34	LGU	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	30	CI around mean	0.00177	0.1	Standard	No Exceedance
34	LGU	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	50	CI around median	0.001	0.006	Standard	No Exceedance
34	LGU	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	10	CI around median	0.64	4.0	Standard	No Exceedance
34	LGU	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	10	CI around mean	0.00126	0.0075	Standard	No Exceedance
34	LGU	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	40	CI around mean	0.00303	0.04	Standard	No Exceedance
34	LGU	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
34	LGU	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.0015	0.1	Standard	No Exceedance
34	LGU	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CI around mean	6.9/7.1	6.5/9.0	Standard/Standard	No Exceedance
34	LGU	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
34	LGU	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	87	CI around median	10	400	Standard	No Exceedance
34	LGU	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
34	LGU	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around median	475	1,200	Standard	No Exceedance
36	UA	E002	Antimony, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
36	UA	E002	Arsenic, total	mg/L	03/31/21 - 09/20/23	10	10	CB around linear reg	0.00319	0.0600	Background	No Exceedance
36	UA	E002	Barium, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.102	2.0	Standard	No Exceedance
36	UA	E002	Beryllium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
36	UA	E002	Boron, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	11.5	2.45	Background	Exceedance
36	UA	E002	Cadmium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
36	UA	E002	Chloride, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	19	200	Standard	No Exceedance
36	UA	E002	Chromium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.05	0.1	Standard	No Exceedance
36	UA	E002	Cobalt, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.006	Standard	No Exceedance
36	UA	E002	Fluoride, total	mg/L	03/31/21 - 09/20/23	10	10	CB around T-S line	0.26	4.0	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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	E002	Lead, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
36	UA	E002	Lithium, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.125	0.04	Standard	Exceedance
36	UA	E002	Mercury, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
36	UA	E002	Molybdenum, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.104	0.1	Standard	Exceedance
36	UA	E002	pH (field)	SU	03/31/21 - 09/20/23	10	0	CI around mean	7.0/7.2	6.5/9.0	Standard/Standard	No Exceedance
36	UA	E002	Selenium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
36	UA	E002	Sulfate, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	944	400	Standard	Exceedance
36	UA	E002	Thallium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
36	UA	E002	Total Dissolved Solids	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	1,620	1,200	Standard	Exceedance
37	LGU	E002	Antimony, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
37	LGU	E002	Arsenic, total	mg/L	03/31/21 - 09/20/23	10	0	CI around median	0.0257	0.0600	Background	No Exceedance
37	LGU	E002	Barium, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.275	2.0	Standard	No Exceedance
37	LGU	E002	Beryllium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
37	LGU	E002	Boron, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	1.2	2.45	Background	No Exceedance
37	LGU	E002	Cadmium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
37	LGU	E002	Chloride, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	42	200	Standard	No Exceedance
37	LGU	E002	Chromium, total	mg/L	03/31/21 - 09/20/23	10	90	CI around median	0.0015	0.1	Standard	No Exceedance
37	LGU	E002	Cobalt, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.006	Standard	No Exceedance
37	LGU	E002	Fluoride, total	mg/L	03/31/21 - 09/20/23	10	10	CI around median	0.58	4.0	Standard	No Exceedance
37	LGU	E002	Lead, total	mg/L	03/31/21 - 09/20/23	10	80	CI around median	0.001	0.0075	Standard	No Exceedance
37	LGU	E002	Lithium, total	mg/L	03/31/21 - 09/20/23	10	90	CI around median	0.003	0.04	Standard	No Exceedance
37	LGU	E002	Mercury, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
37	LGU	E002	Molybdenum, total	mg/L	03/31/21 - 09/20/23	10	90	CI around median	0.0015	0.1	Standard	No Exceedance
37	LGU	E002	pH (field)	SU	03/31/21 - 09/20/23	10	0	CI around mean	6.8/7.1	6.5/9.0	Standard/Standard	No Exceedance
37	LGU	E002	Selenium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
37	LGU	E002	Sulfate, total	mg/L	03/31/21 - 09/20/23	10	0	CB around linear reg	248	400	Standard	No Exceedance
37	LGU	E002	Thallium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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
37	LGU	E002	Total Dissolved Solids	mg/L	03/31/21 - 09/20/23	10	0	CB around linear reg	690	1,200	Standard	No Exceedance
38	UA	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
38	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	0	CB around linear reg	0.0227	0.0600	Background	No Exceedance
38	UA	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CB around T-S line	-0.367	2.0	Standard	No Exceedance
38	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
38	UA	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.405	2.45	Background	No Exceedance
38	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
38	UA	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	17.7	200	Standard	No Exceedance
38	UA	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.005	0.1	Standard	No Exceedance
38	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.006	Standard	No Exceedance
38	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	10	CI around mean	0.341	4.0	Standard	No Exceedance
38	UA	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
38	UA	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	40	CB around linear reg	-0.0112	0.04	Standard	No Exceedance
38	UA	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
38	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	20	CI around mean	0.00226	0.1	Standard	No Exceedance
38	UA	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CI around mean	6.9/7.1	6.5/9.0	Standard/Standard	No Exceedance
38	UA	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
38	UA	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	10	400	Standard	No Exceedance
38	UA	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
38	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	490	1,200	Standard	No Exceedance
40	UA	E002	Antimony, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
40	UA	E002	Arsenic, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	0.017	0.0600	Background	No Exceedance
40	UA	E002	Barium, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	0.0297	2.0	Standard	No Exceedance
40	UA	E002	Beryllium, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
40	UA	E002	Boron, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	19.1	2.45	Background	Exceedance
40	UA	E002	Cadmium, total	mg/L	03/31/21 - 09/21/23	10	90	CI around median	0.001	0.005	Standard	No Exceedance
40	UA	E002	Chloride, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	11.9	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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
40	UA	E002	Chromium, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.005	0.1	Standard	No Exceedance
40	UA	E002	Cobalt, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	0.00521	0.006	Standard	No Exceedance
40	UA	E002	Fluoride, total	mg/L	03/31/21 - 09/21/23	10	80	CI around median	0.1	4.0	Standard	No Exceedance
40	UA	E002	Lead, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
40	UA	E002	Lithium, total	mg/L	03/31/21 - 09/21/23	10	0	CI around median	0.74	0.04	Standard	Exceedance
40	UA	E002	Mercury, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
40	UA	E002	Molybdenum, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	0.0616	0.1	Standard	No Exceedance
40	UA	E002	Selenium, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
40	UA	E002	Sulfate, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	2,800	400	Standard	Exceedance
40	UA	E002	Thallium, total	mg/L	03/31/21 - 09/21/23	10	80	CI around median	0.002	0.002	Standard	No Exceedance
40	UA	E002	Total Dissolved Solids	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	4,350	1,200	Standard	Exceedance
41	UA	E002	Antimony, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
41	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/20/23	10	0	CB around linear reg	0.0078	0.0600	Background	No Exceedance
41	UA	E002	Barium, total	mg/L	03/30/21 - 09/20/23	10	0	CB around linear reg	0.199	2.0	Standard	No Exceedance
41	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
41	UA	E002	Boron, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	2.59	2.45	Background	Exceedance
41	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
41	UA	E002	Chloride, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	54.3	200	Standard	No Exceedance
41	UA	E002	Chromium, total	mg/L	03/30/21 - 09/20/23	10	90	CI around median	0.0015	0.1	Standard	No Exceedance
41	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.001	0.006	Standard	No Exceedance
41	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/20/23	10	10	CI around median	0.41	4.0	Standard	No Exceedance
41	UA	E002	Lead, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
41	UA	E002	Lithium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.005	0.04	Standard	No Exceedance
41	UA	E002	Mercury, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
41	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.005	0.1	Standard	No Exceedance
41	UA	E002	pH (field)	SU	03/30/21 - 09/20/23	10	0	CI around mean	7.0/7.1	6.5/9.0	Standard/Standard	No Exceedance
41	UA	E002	Selenium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0025	0.05	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 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
41	UA	E002	Sulfate, total	mg/L	03/30/21 - 09/20/23	10	80	CI around median	10	400	Standard	No Exceedance
41	UA	E002	Thallium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.002	0.002	Standard	No Exceedance
41	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	592	1,200	Standard	No Exceedance

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)

ATTACHMENTS

**ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 3, 2023**

**ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 3, 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	09/18/2023	19.47	574.40
03R	Compliance	09/18/2023	8.97	580.89
04	Compliance	09/18/2023	8.91	581.98
05	Compliance	09/18/2023	9.60	586.05
07R	Compliance	09/18/2023	15.94	578.56
08R	Compliance	09/18/2023	14.43	575.43
17	Compliance	09/18/2023	39.91	583.28
20	Compliance	09/18/2023	15.71	576.56
21	Background	09/18/2023	91.83	580.88
34	Compliance	09/18/2023	15.23	577.22
36	Compliance	09/18/2023	14.95	575.01
37	Compliance	09/18/2023	8.91	580.80
38	Compliance	09/18/2023	9.11	582.58
40	Compliance	09/18/2023	14.63	577.64
41	Compliance	09/18/2023	7.08	580.09
42	Background	09/18/2023	26.78	581.62
43	Background	09/18/2023	16.67	591.17
101	Background	09/18/2023	108.59	598.08
103	Background	09/18/2023	138.27	582.11
ND3	Water Level	09/18/2023	21.62	592.93
OED1	Water Level	09/18/2023	42.50	587.91
SG01	Water Level	09/18/2023	18.30	671.02

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 3, 2023**

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
10188 E 2150 North Rd
Danville, Illinois 61834

Generated 11/16/23 11:50:43

JOB DESCRIPTION

VER-23Q3
VER_845_910-911

JOB NUMBER

500-239823-5

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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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	16
Sample Summary	17
Client Sample Results	18
Definitions	42
QC Association	43
QC Sample Results	52
Chronicle	64
Certification Summary	74
Chain of Custody	75
Receipt Checklists	97
Field Data Sheets	98



Case Narrative

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-5

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-239823-5

Receipt

The samples were received on 9/20/2023 11:18 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 17 coolers at receipt time were 0.4° C, 0.8° C, 1.3° C, 1.5° C, 1.6° C, 1.6° C, 1.8° C, 2.2° C, 2.4° C, 2.4° C, 2.5° C, 2.6° C, 2.7° C, 3.3° C, 4.6° C, 5.1° C and 5.3° C.

Receipt Exceptions

Method Field Sampling: For the following sample, values were not received for the following field parameters: Field pH, Field Temperature, Oxidation Reduction Potential, Oxygen, Dissolved and Specific Conductance: VER_040 (500-239823-22).

Method Field Sampling: Turbidity values not received for last two readings, including the collection time. Affected sample: VER_101& (500-239823-30).

Metals

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

General Chemistry

Methods 300.0: The method blank for analytical batch 500-735148 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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



Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_002

Lab Sample ID: 500-239823-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0036	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0074		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.19		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.30	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	79		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chloride	48		2.0	0.23	mg/L	2		300.0	Total/NA
Fluoride	0.67	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	30		1.0	0.21	mg/L	1		300.0	Total/NA
Total Dissolved Solids	570		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	19.50				ft	1		Field Sampling	Total/NA
Field pH	7.58				SU	1		Field Sampling	Total/NA
Field Temperature	15.25				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-147.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.09				mg/L	1		Field Sampling	Total/NA
Specific Conductance	780.39				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.24				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_002DUP

Lab Sample ID: 500-239823-8

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	0.0077		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.19		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.29	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	79		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00028	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	49		2.0	0.23	mg/L	2		300.0	Total/NA
Fluoride	0.67	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	21		1.0	0.21	mg/L	1		300.0	Total/NA
Total Dissolved Solids	540		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	19.50				ft	1		Field Sampling	Total/NA
Field pH	7.58				SU	1		Field Sampling	Total/NA
Field Temperature	15.25				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-147.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.09				mg/L	1		Field Sampling	Total/NA
Specific Conductance	780.39				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.24				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_004

Lab Sample ID: 500-239823-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.049		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_004 (Continued)

Lab Sample ID: 500-239823-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0061		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.21		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	10	B	0.25	0.064	mg/L	5		6020B	Total Recoverable
Calcium	60		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00059	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Molybdenum	0.038		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	9.4		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.39	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	21		1.0	0.21	mg/L	1		300.0	Total/NA
Total Dissolved Solids	330		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	8.94				ft	1		Field Sampling	Total/NA
Field pH	7.57				SU	1		Field Sampling	Total/NA
Field Temperature	15.65				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-138.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.71				mg/L	1		Field Sampling	Total/NA
Specific Conductance	195.91				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.98				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_021

Lab Sample ID: 500-239823-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.050		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.11		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.87	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	54		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0039	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	1.6		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	1.0		1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	3.0		1.0	0.21	mg/L	1		300.0	Total/NA
Total Dissolved Solids	330		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	91.46				ft	1		Field Sampling	Total/NA
Field pH	7.42				SU	1		Field Sampling	Total/NA
Field Temperature	13.43				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-116.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.38				mg/L	1		Field Sampling	Total/NA
Specific Conductance	704.13				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.94				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_036

Lab Sample ID: 500-239823-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.22		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Euromins Chicago

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_036 (Continued)

Lab Sample ID: 500-239823-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0038		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.088		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	15	B	0.50	0.13	mg/L	10		6020B	Total Recoverable
Calcium	310		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00072	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Molybdenum	0.18		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	17		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.31	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	1000		100	21	mg/L	100		300.0	Total/NA
Total Dissolved Solids	1700		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	14.95				ft	1		Field Sampling	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA
Field Temperature	14.67				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-110.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.02				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1976.80				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.49				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_037

Lab Sample ID: 500-239823-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0025	J	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	0.31		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.7	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	110		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0011	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Lead	0.00043	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	43		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.54	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	310		20	4.1	mg/L	20		300.0	Total/NA
Total Dissolved Solids	900		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	8.96				ft	1		Field Sampling	Total/NA
Field pH	6.87				SU	1		Field Sampling	Total/NA
Field Temperature	14.89				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-119.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.34				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1320.20				umhos/cm	1		Field Sampling	Total/NA
Turbidity	11.2				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_041

Lab Sample ID: 500-239823-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.011		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.22		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	3.0	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	77		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00021	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	53	B	2.0	0.23	mg/L	2		300.0	Total/NA
Fluoride	0.46	J	1.0	0.19	mg/L	1		300.0	Total/NA
Total Dissolved Solids	650		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	7.12				ft	1		Field Sampling	Total/NA
Field pH	7.11				SU	1		Field Sampling	Total/NA
Field Temperature	14.11				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-105.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.03				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1171.20				umhos/cm	1		Field Sampling	Total/NA
Turbidity	15.9				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_003R

Lab Sample ID: 500-239823-14

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	0.0049		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.29		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	26	B	0.50	0.13	mg/L	10		6020B	Total Recoverable
Calcium	140		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.018	J	0.050	0.011	mg/L	10		6020B	Total Recoverable
Cobalt	0.00052	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00051		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Molybdenum	0.32		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	24		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.44	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	540		50	10	mg/L	50		300.0	Total/NA
Total Dissolved Solids	1200		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	9.04				ft	1		Field Sampling	Total/NA
Field pH	7.43				SU	1		Field Sampling	Total/NA
Field Temperature	13.11				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-110.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.15				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1613.20				umhos/cm	1		Field Sampling	Total/NA
Turbidity	22.5				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_005

Lab Sample ID: 500-239823-15

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	0.00059	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.023		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	20	B	0.50	0.13	mg/L	10		6020B	Total Recoverable
Calcium	88		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.014	J	0.050	0.011	mg/L	10		6020B	Total Recoverable
Cobalt	0.0014		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00039	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Molybdenum	0.040		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	7.2		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.68	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	240		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	610		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	9.68				ft	1		Field Sampling	Total/NA
Field pH	7.51				SU	1		Field Sampling	Total/NA
Field Temperature	14.91				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-15.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1		Field Sampling	Total/NA
Specific Conductance	724.87				umhos/cm	1		Field Sampling	Total/NA
Turbidity	19.1				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_008R

Lab Sample ID: 500-239823-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.37		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.037		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.052		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	36	B	0.50	0.13	mg/L	10		6020B	Total Recoverable
Calcium	270		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00049	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00026	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Molybdenum	0.27		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	6.1		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	830		50	10	mg/L	50		300.0	Total/NA
Total Dissolved Solids	1500		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	14.4				ft	1		Field Sampling	Total/NA
Field pH	8.03				SU	1		Field Sampling	Total/NA
Field Temperature	15.02				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-118.3				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Euromins Chicago

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_008R (Continued)

Lab Sample ID: 500-239823-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.35				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1686				umhos/cm	1		Field Sampling	Total/NA
Turbidity	35.48				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_017

Lab Sample ID: 500-239823-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.017		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0038		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.029		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	5.0	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	270		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00095	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0035	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	33		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.28	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	990		100	21	mg/L	100		300.0	Total/NA
Total Dissolved Solids	1900		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	39.91				ft	1		Field Sampling	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA
Field Temperature	14.85				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-70.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.57				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2171				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.34				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_020

Lab Sample ID: 500-239823-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.026		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0016		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.021		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.6	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	91		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00089	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Chloride	4.3		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.23	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	87		5.0	1.0	mg/L	5		300.0	Total/NA
Total Dissolved Solids	440		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	15.62				ft	1		Field Sampling	Total/NA
Field pH	6.98				SU	1		Field Sampling	Total/NA
Field Temperature	14.07				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_020 (Continued)

Lab Sample ID: 500-239823-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxidation Reduction Potential	-17.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.03				mg/L	1		Field Sampling	Total/NA
Specific Conductance	729.57				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.86				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_034

Lab Sample ID: 500-239823-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0025	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.024		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.15		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.48	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	61		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0016	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Lead	0.00067		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	33		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.65	J	1.0	0.19	mg/L	1		300.0	Total/NA
Total Dissolved Solids	480		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	15.39				ft	1		Field Sampling	Total/NA
Field pH	6.99				SU	1		Field Sampling	Total/NA
Field Temperature	12.62				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-136.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0				mg/L	1		Field Sampling	Total/NA
Specific Conductance	859.19				umhos/cm	1		Field Sampling	Total/NA
Turbidity	45.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_038

Lab Sample ID: 500-239823-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0027	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.028		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.19		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.42	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	64		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00041	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
Chloride	17		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.46	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	1.2		1.0	0.21	mg/L	1		300.0	Total/NA
Total Dissolved Solids	560		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	9.11				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_038 (Continued)

Lab Sample ID: 500-239823-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.02				SU	1		Field Sampling	Total/NA
Field Temperature	12.51				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-121.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.03				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1067.60				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.88				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_040

Lab Sample ID: 500-239823-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.76		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.018		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.029		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	23	B	0.50	0.13	mg/L	10		6020B	Total Recoverable
Calcium	490		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0060		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Molybdenum	0.055		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	8.5		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	3200		200	41	mg/L	200		300.0	Total/NA
Total Dissolved Solids	5000		25	11	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	14.70				ft	1		Field Sampling	Total/NA
Turbidity	2.30				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_042

Lab Sample ID: 500-239823-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0044	J	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	0.14		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.65	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	81		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chloride	16		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.54	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	52		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	570		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	26.88				ft	1		Field Sampling	Total/NA
Field pH	7.36				SU	1		Field Sampling	Total/NA
Field Temperature	11.72				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-124				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.73				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1015.20				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.72				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_043

Lab Sample ID: 500-239823-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0092		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	0.47		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.1	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	61		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00027	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	71	B	5.0	0.58	mg/L	5		300.0	Total/NA
Fluoride	0.52	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	1.9		1.0	0.21	mg/L	1		300.0	Total/NA
Total Dissolved Solids	620		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	16.81				ft	1		Field Sampling	Total/NA
Field pH	7.37				SU	1		Field Sampling	Total/NA
Field Temperature	12.59				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-128.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.3				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1159.30				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.43				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_EB-01

Lab Sample ID: 500-239823-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.013	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	0.096	J	0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00029	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	0.21	J	1.0	0.12	mg/L	1		300.0	Total/NA

Client Sample ID: VER_EB-02

Lab Sample ID: 500-239823-26

No Detections.

Client Sample ID: VER_FB/EB-1

Lab Sample ID: 500-239823-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00031	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Boron	0.022	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	0.046	J	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chloride	0.21	J	1.0	0.12	mg/L	1		300.0	Total/NA

Client Sample ID: VER_101&

Lab Sample ID: 500-239823-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0041	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.051		0.0010	0.00023	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_101& (Continued)

Lab Sample ID: 500-239823-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.13		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	2.1	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Chromium	0.0024	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.00069	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00072		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	10		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.82	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	7.5		1.0	0.21	mg/L	1		300.0	Total/NA
Total Dissolved Solids	490		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	108.55				ft	1		Field Sampling	Total/NA
Field pH	7.3				SU	1		Field Sampling	Total/NA
Field Temperature	18.93				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-140.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.33				mg/L	1		Field Sampling	Total/NA
Specific Conductance	736.61				umhos/cm	1		Field Sampling	Total/NA

Client Sample ID: VER_103&

Lab Sample ID: 500-239823-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.076		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0022		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.025		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.40	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cobalt	0.0014		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00034	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0065		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	8.0		1.0	0.12	mg/L	1		300.0	Total/NA
Fluoride	0.54	J	1.0	0.19	mg/L	1		300.0	Total/NA
Sulfate	1100		200	41	mg/L	200		300.0	Total/NA
Total Dissolved Solids	2100		10	4.3	mg/L	1		SM 2540C	Total/NA
Depth to Water (ft from MP)	138.00				ft	1		Field Sampling	Total/NA
Field pH	7.03				SU	1		Field Sampling	Total/NA
Field Temperature	18.03				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	85.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.75				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2328.00				umhos/cm	1		Field Sampling	Total/NA
Turbidity	37.4				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_EB-1

Lab Sample ID: 500-239823-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	0.054	J	0.20	0.044	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Euromins Chicago

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_EB-1 (Continued)

Lab Sample ID: 500-239823-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00020	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	0.17	J	1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	3.4		1.0	0.21	mg/L	1		300.0	Total/NA

Client Sample ID: VER_007R

Lab Sample ID: 500-239823-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	15.94				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.



Method Summary

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 2540C	Solids, Total Dissolved (TDS)	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-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-239823-7	VER_002	Water	09/20/23 14:11	09/21/23 11:13
500-239823-8	VER_002DUP	Water	09/20/23 14:20	09/21/23 11:13
500-239823-9	VER_004	Water	09/20/23 14:50	09/21/23 11:13
500-239823-10	VER_021	Water	09/20/23 10:20	09/21/23 11:13
500-239823-11	VER_036	Water	09/20/23 10:47	09/21/23 11:13
500-239823-12	VER_037	Water	09/20/23 12:31	09/21/23 11:13
500-239823-13	VER_041	Water	09/20/23 12:35	09/21/23 11:13
500-239823-14	VER_003R	Water	09/21/23 08:50	09/22/23 11:09
500-239823-15	VER_005	Water	09/21/23 10:51	09/22/23 11:09
500-239823-16	VER_008R	Water	09/21/23 09:30	09/22/23 11:09
500-239823-18	VER_017	Water	09/21/23 08:51	09/22/23 11:09
500-239823-19	VER_020	Water	09/21/23 13:07	09/22/23 11:09
500-239823-20	VER_034	Water	09/21/23 14:46	09/22/23 11:09
500-239823-21	VER_038	Water	09/21/23 15:45	09/22/23 11:09
500-239823-22	VER_040	Water	09/21/23 14:30	09/22/23 11:09
500-239823-23	VER_042	Water	09/21/23 13:35	09/22/23 11:09
500-239823-24	VER_043	Water	09/21/23 14:30	09/22/23 11:09
500-239823-25	VER_EB-01	Water	09/21/23 08:40	09/22/23 11:09
500-239823-26	VER_EB-02	Water	09/22/23 07:30	09/22/23 14:10
500-239823-29	VER_FB/EB-1	Water	09/25/23 18:00	09/26/23 11:13
500-239823-30	VER_101&	Water	09/25/23 16:12	09/26/23 11:13
500-239823-33	VER_103&	Water	09/26/23 10:43	09/27/23 11:31
500-239823-35	VER_EB-1	Water	09/26/23 17:00	09/27/23 11:31
500-239823-36	VER_007R	Water	09/18/23 13:17	09/27/23 11:31



Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_002

Lab Sample ID: 500-239823-7

Date Collected: 09/20/23 14:11

Matrix: Water

Date Received: 09/21/23 11:13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0036	J	0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 12:38	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		09/27/23 09:34	10/10/23 21:50	1
Arsenic	0.0074		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 21:50	1
Barium	0.19		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 21:50	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 21:50	1
Boron	0.30	B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 15:37	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 21:50	1
Calcium	79		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 21:50	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 12:04	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 21:50	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 21:50	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 21:50	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 21:50	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 21:50	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		09/27/23 10:55	09/28/23 07:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	48		2.0	0.23	mg/L			09/29/23 02:27	2
Fluoride (EPA 300.0)	0.67	J	1.0	0.19	mg/L			10/01/23 17:45	1
Sulfate (EPA 300.0)	30		1.0	0.21	mg/L			10/01/23 17:45	1
Total Dissolved Solids (SM 2540C)	570		10	4.3	mg/L			09/21/23 21:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	19.50				ft			09/20/23 14:11	1
Field pH	7.58				SU			09/20/23 14:11	1
Field Temperature	15.25				Degrees C			09/20/23 14:11	1
Oxidation Reduction Potential	-147.5				millivolts			09/20/23 14:11	1
Oxygen, Dissolved	0.09				mg/L			09/20/23 14:11	1
Specific Conductance	780.39				umhos/cm			09/20/23 14:11	1
Turbidity	7.24				NTU			09/20/23 14:11	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_002DUP

Lab Sample ID: 500-239823-8

Date Collected: 09/20/23 14:20

Matrix: Water

Date Received: 09/21/23 11:13

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		09/25/23 09:01	09/28/23 12:42	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		09/27/23 09:34	10/10/23 21:59	1
Arsenic	0.0077		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 21:59	1
Barium	0.19		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 21:59	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 21:59	1
Boron	0.29	B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 15:41	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 21:59	1
Calcium	79		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 21:59	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 12:08	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 21:59	1
Lead	0.00028	J	0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 21:59	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 21:59	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 21:59	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 21:59	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		09/27/23 10:55	09/28/23 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	49		2.0	0.23	mg/L			09/29/23 03:27	2
Fluoride (EPA 300.0)	0.67	J	1.0	0.19	mg/L			10/01/23 18:00	1
Sulfate (EPA 300.0)	21		1.0	0.21	mg/L			10/01/23 18:00	1
Total Dissolved Solids (SM 2540C)	540		10	4.3	mg/L			09/21/23 21:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	19.50				ft			09/20/23 14:20	1
Field pH	7.58				SU			09/20/23 14:20	1
Field Temperature	15.25				Degrees C			09/20/23 14:20	1
Oxidation Reduction Potential	-147.5				millivolts			09/20/23 14:20	1
Oxygen, Dissolved	0.09				mg/L			09/20/23 14:20	1
Specific Conductance	780.39				umhos/cm			09/20/23 14:20	1
Turbidity	7.24				NTU			09/20/23 14:20	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_004

Lab Sample ID: 500-239823-9

Date Collected: 09/20/23 14:50

Matrix: Water

Date Received: 09/21/23 11:13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.049		0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 12:47	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		09/27/23 09:34	10/10/23 22:03	1
Arsenic	0.0061		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 22:03	1
Barium	0.21		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 22:03	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 22:03	1
Boron	10	B	0.25	0.064	mg/L		09/27/23 09:34	10/11/23 15:45	5
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 22:03	1
Calcium	60		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 22:03	1
Chromium	<0.025		0.025	0.0057	mg/L		09/27/23 09:34	10/11/23 12:16	5
Cobalt	0.00059	J	0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 22:03	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 22:03	1
Molybdenum	0.038		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 22:03	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 22:03	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 22:03	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		09/27/23 10:55	09/28/23 08:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	9.4		1.0	0.12	mg/L			09/29/23 03:43	1
Fluoride (EPA 300.0)	0.39	J	1.0	0.19	mg/L			09/29/23 03:43	1
Sulfate (EPA 300.0)	21		1.0	0.21	mg/L			09/29/23 03:43	1
Total Dissolved Solids (SM 2540C)	330		10	4.3	mg/L			09/21/23 21:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	8.94				ft			09/20/23 14:50	1
Field pH	7.57				SU			09/20/23 14:50	1
Field Temperature	15.65				Degrees C			09/20/23 14:50	1
Oxidation Reduction Potential	-138.7				millivolts			09/20/23 14:50	1
Oxygen, Dissolved	0.71				mg/L			09/20/23 14:50	1
Specific Conductance	195.91				umhos/cm			09/20/23 14:50	1
Turbidity	0.98				NTU			09/20/23 14:50	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_021

Lab Sample ID: 500-239823-10

Date Collected: 09/20/23 10:20

Matrix: Water

Date Received: 09/21/23 11:13

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		09/25/23 09:01	09/28/23 13:15	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		09/27/23 09:34	10/10/23 22:25	1
Arsenic	0.050		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 22:25	1
Barium	0.11		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 22:25	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 22:25	1
Boron	0.87	B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 16:14	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 22:25	1
Calcium	54		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 22:25	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 12:54	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 22:25	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 22:25	1
Molybdenum	0.0039	J	0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 22:25	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 22:25	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 22:25	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		09/27/23 10:55	09/28/23 08:10	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			10/02/23 17:25	1
Fluoride (EPA 300.0)	1.0		1.0	0.19	mg/L			10/02/23 17:25	1
Sulfate (EPA 300.0)	3.0		1.0	0.21	mg/L			10/02/23 17:25	1
Total Dissolved Solids (SM 2540C)	330		10	4.3	mg/L			09/21/23 21:39	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	91.46				ft			09/20/23 10:20	1
Field pH	7.42				SU			09/20/23 10:20	1
Field Temperature	13.43				Degrees C			09/20/23 10:20	1
Oxidation Reduction Potential	-116.2				millivolts			09/20/23 10:20	1
Oxygen, Dissolved	0.38				mg/L			09/20/23 10:20	1
Specific Conductance	704.13				umhos/cm			09/20/23 10:20	1
Turbidity	7.94				NTU			09/20/23 10:20	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_036

Lab Sample ID: 500-239823-11

Date Collected: 09/20/23 10:47

Matrix: Water

Date Received: 09/21/23 11:13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.22		0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 13:20	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		09/27/23 09:34	10/10/23 22:29	1
Arsenic	0.0038		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 22:29	1
Barium	0.088		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 22:29	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 22:29	1
Boron	15	B	0.50	0.13	mg/L		09/27/23 09:34	10/11/23 16:18	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 22:29	1
Calcium	310		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 22:29	1
Chromium	<0.050		0.050	0.011	mg/L		09/27/23 09:34	10/11/23 12:58	10
Cobalt	0.00072	J	0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 22:29	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 22:29	1
Molybdenum	0.18		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 22:29	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 22:29	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 22:29	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		09/27/23 10:55	09/28/23 08:16	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			10/02/23 17:41	1
Fluoride (EPA 300.0)	0.31	J	1.0	0.19	mg/L			10/02/23 17:41	1
Sulfate (EPA 300.0)	1000		100	21	mg/L			10/02/23 17:57	100
Total Dissolved Solids (SM 2540C)	1700		10	4.3	mg/L			09/21/23 21:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	14.95				ft			09/20/23 10:47	1
Field pH	7.06				SU			09/20/23 10:47	1
Field Temperature	14.67				Degrees C			09/20/23 10:47	1
Oxidation Reduction Potential	-110.3				millivolts			09/20/23 10:47	1
Oxygen, Dissolved	0.02				mg/L			09/20/23 10:47	1
Specific Conductance	1976.80				umhos/cm			09/20/23 10:47	1
Turbidity	3.49				NTU			09/20/23 10:47	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_037
Date Collected: 09/20/23 12:31
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-12
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	0.0025	J	0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 13:24	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		09/27/23 09:34	10/10/23 22:34	1
Arsenic	0.034		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 22:34	1
Barium	0.31		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 22:34	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 22:34	1
Boron	1.7	B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 16:32	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 22:34	1
Calcium	110		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 22:34	1
Chromium	0.0011	J	0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 13:01	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 22:34	1
Lead	0.00043	J	0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 22:34	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 22:34	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 22:34	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 22:34	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		09/27/23 10:55	09/28/23 08:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	43		1.0	0.12	mg/L			10/02/23 18:12	1
Fluoride (EPA 300.0)	0.54	J	1.0	0.19	mg/L			10/02/23 18:12	1
Sulfate (EPA 300.0)	310		20	4.1	mg/L			10/02/23 18:59	20
Total Dissolved Solids (SM 2540C)	900		10	4.3	mg/L			09/21/23 21:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	8.96				ft			09/20/23 12:31	1
Field pH	6.87				SU			09/20/23 12:31	1
Field Temperature	14.89				Degrees C			09/20/23 12:31	1
Oxidation Reduction Potential	-119.6				millivolts			09/20/23 12:31	1
Oxygen, Dissolved	0.34				mg/L			09/20/23 12:31	1
Specific Conductance	1320.20				umhos/cm			09/20/23 12:31	1
Turbidity	11.2				NTU			09/20/23 12:31	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_041

Lab Sample ID: 500-239823-13

Date Collected: 09/20/23 12:35

Matrix: Water

Date Received: 09/21/23 11:13

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		09/25/23 09:01	09/28/23 13:28	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		09/27/23 09:34	10/10/23 22:38	1
Arsenic	0.011		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 22:38	1
Barium	0.22		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 22:38	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 22:38	1
Boron	3.0 B		0.050	0.013	mg/L		09/27/23 09:34	10/11/23 16:36	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 22:38	1
Calcium	77		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 22:38	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 13:05	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 22:38	1
Lead	0.00021 J		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 22:38	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 22:38	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 22:38	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 22:38	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		09/27/23 10:55	09/28/23 08:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	53 B		2.0	0.23	mg/L			10/04/23 06:31	2
Fluoride (EPA 300.0)	0.46 J		1.0	0.19	mg/L			10/02/23 19:15	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			10/02/23 19:15	1
Total Dissolved Solids (SM 2540C)	650		10	4.3	mg/L			09/21/23 21:47	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	7.12				ft			09/20/23 12:35	1
Field pH	7.11				SU			09/20/23 12:35	1
Field Temperature	14.11				Degrees C			09/20/23 12:35	1
Oxidation Reduction Potential	-105.1				millivolts			09/20/23 12:35	1
Oxygen, Dissolved	1.03				mg/L			09/20/23 12:35	1
Specific Conductance	1171.20				umhos/cm			09/20/23 12:35	1
Turbidity	15.9				NTU			09/20/23 12:35	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_003R

Lab Sample ID: 500-239823-14

Date Collected: 09/21/23 08:50

Matrix: Water

Date Received: 09/22/23 11:09

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		09/25/23 09:01	09/28/23 13:32	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		09/27/23 09:34	10/10/23 22:51	1
Arsenic	0.0049		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 22:51	1
Barium	0.29		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 22:51	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 22:51	1
Boron	26	B	0.50	0.13	mg/L		09/27/23 09:34	10/11/23 16:40	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 22:51	1
Calcium	140		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 22:51	1
Chromium	0.018	J	0.050	0.011	mg/L		09/27/23 09:34	10/11/23 13:09	10
Cobalt	0.00052	J	0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 22:51	1
Lead	0.00051		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 22:51	1
Molybdenum	0.32		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 22:51	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 22:51	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 22:51	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		09/27/23 10:55	09/28/23 08:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	24		1.0	0.12	mg/L			10/02/23 19:30	1
Fluoride (EPA 300.0)	0.44	J	1.0	0.19	mg/L			10/02/23 19:30	1
Sulfate (EPA 300.0)	540		50	10	mg/L			10/02/23 19:46	50
Total Dissolved Solids (SM 2540C)	1200		10	4.3	mg/L			09/25/23 20:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	9.04				ft			09/21/23 08:50	1
Field pH	7.43				SU			09/21/23 08:50	1
Field Temperature	13.11				Degrees C			09/21/23 08:50	1
Oxidation Reduction Potential	-110.2				millivolts			09/21/23 08:50	1
Oxygen, Dissolved	0.15				mg/L			09/21/23 08:50	1
Specific Conductance	1613.20				umhos/cm			09/21/23 08:50	1
Turbidity	22.5				NTU			09/21/23 08:50	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_005

Lab Sample ID: 500-239823-15

Date Collected: 09/21/23 10:51

Matrix: Water

Date Received: 09/22/23 11:09

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		09/25/23 09:01	09/28/23 13:37	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		09/27/23 09:34	10/10/23 22:55	1
Arsenic	0.00059	J	0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 22:55	1
Barium	0.023		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 22:55	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 22:55	1
Boron	20	B	0.50	0.13	mg/L		09/27/23 09:34	10/11/23 16:45	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 22:55	1
Calcium	88		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 22:55	1
Chromium	0.014	J	0.050	0.011	mg/L		09/27/23 09:34	10/11/23 13:13	10
Cobalt	0.0014		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 22:55	1
Lead	0.00039	J	0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 22:55	1
Molybdenum	0.040		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 22:55	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 22:55	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 22:55	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		09/27/23 10:55	09/28/23 08:25	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			10/02/23 20:02	1
Fluoride (EPA 300.0)	0.68	J	1.0	0.19	mg/L			10/02/23 20:02	1
Sulfate (EPA 300.0)	240		10	2.1	mg/L			10/02/23 20:17	10
Total Dissolved Solids (SM 2540C)	610		10	4.3	mg/L			09/25/23 20:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	9.68				ft			09/21/23 10:51	1
Field pH	7.51				SU			09/21/23 10:51	1
Field Temperature	14.91				Degrees C			09/21/23 10:51	1
Oxidation Reduction Potential	-15.1				millivolts			09/21/23 10:51	1
Oxygen, Dissolved	0.01				mg/L			09/21/23 10:51	1
Specific Conductance	724.87				umhos/cm			09/21/23 10:51	1
Turbidity	19.1				NTU			09/21/23 10:51	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_008R

Lab Sample ID: 500-239823-16

Date Collected: 09/21/23 09:30

Matrix: Water

Date Received: 09/22/23 11:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.37		0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 13:41	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		09/27/23 09:34	10/10/23 23:00	1
Arsenic	0.037		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:00	1
Barium	0.052		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:00	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:00	1
Boron	36	B	0.50	0.13	mg/L		09/27/23 09:34	10/11/23 16:51	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:00	1
Calcium	270		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:00	1
Chromium	<0.050		0.050	0.011	mg/L		09/27/23 09:34	10/11/23 13:20	10
Cobalt	0.00049	J	0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:00	1
Lead	0.00026	J	0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:00	1
Molybdenum	0.27		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:00	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:00	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 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		09/27/23 10:55	09/28/23 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	6.1		1.0	0.12	mg/L			10/02/23 20:33	1
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			10/02/23 20:33	1
Sulfate (EPA 300.0)	830		50	10	mg/L			10/02/23 20:48	50
Total Dissolved Solids (SM 2540C)	1500		10	4.3	mg/L			09/25/23 21:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	14.4				ft			09/21/23 09:30	1
Field pH	8.03				SU			09/21/23 09:30	1
Field Temperature	15.02				Degrees C			09/21/23 09:30	1
Oxidation Reduction Potential	-118.3				millivolts			09/21/23 09:30	1
Oxygen, Dissolved	0.35				mg/L			09/21/23 09:30	1
Specific Conductance	1686				umhos/cm			09/21/23 09:30	1
Turbidity	35.48				NTU			09/21/23 09:30	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_017

Lab Sample ID: 500-239823-18

Date Collected: 09/21/23 08:51

Matrix: Water

Date Received: 09/22/23 11:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.017		0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 13:58	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		09/27/23 09:34	10/10/23 23:08	1
Arsenic	0.0038		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:08	1
Barium	0.029		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:08	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:08	1
Boron	5.0	B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 17:00	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:08	1
Calcium	270		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:08	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 21:08	1
Cobalt	0.00095	J	0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:08	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:08	1
Molybdenum	0.0035	J	0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:08	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:08	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 23:08	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		09/27/23 10:55	09/28/23 08:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	33		1.0	0.12	mg/L			10/02/23 22:07	1
Fluoride (EPA 300.0)	0.28	J	1.0	0.19	mg/L			10/02/23 22:07	1
Sulfate (EPA 300.0)	990		100	21	mg/L			10/02/23 22:22	100
Total Dissolved Solids (SM 2540C)	1900		10	4.3	mg/L			09/25/23 21:18	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	39.91				ft			09/21/23 08:51	1
Field pH	7.06				SU			09/21/23 08:51	1
Field Temperature	14.85				Degrees C			09/21/23 08:51	1
Oxidation Reduction Potential	-70.5				millivolts			09/21/23 08:51	1
Oxygen, Dissolved	1.57				mg/L			09/21/23 08:51	1
Specific Conductance	2171				umhos/cm			09/21/23 08:51	1
Turbidity	8.34				NTU			09/21/23 08:51	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_020
Date Collected: 09/21/23 13:07
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-19
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	0.026		0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 14:02	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		09/27/23 09:34	10/10/23 23:13	1
Arsenic	0.0016		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:13	1
Barium	0.021		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:13	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:13	1
Boron	1.6	B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 17:04	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:13	1
Calcium	91		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:13	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 21:12	1
Cobalt	0.00089	J	0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:13	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:13	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:13	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:13	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 23:13	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		09/27/23 10:55	09/28/23 08:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	4.3		1.0	0.12	mg/L			10/02/23 22:38	1
Fluoride (EPA 300.0)	0.23	J	1.0	0.19	mg/L			10/02/23 22:38	1
Sulfate (EPA 300.0)	87		5.0	1.0	mg/L			10/02/23 22:53	5
Total Dissolved Solids (SM 2540C)	440		10	4.3	mg/L			09/25/23 21:20	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			09/21/23 13:07	1
Field pH	6.98				SU			09/21/23 13:07	1
Field Temperature	14.07				Degrees C			09/21/23 13:07	1
Oxidation Reduction Potential	-17.3				millivolts			09/21/23 13:07	1
Oxygen, Dissolved	0.03				mg/L			09/21/23 13:07	1
Specific Conductance	729.57				umhos/cm			09/21/23 13:07	1
Turbidity	6.86				NTU			09/21/23 13:07	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_034

Lab Sample ID: 500-239823-20

Date Collected: 09/21/23 14:46

Matrix: Water

Date Received: 09/22/23 11:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0025	J	0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 14:06	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		09/27/23 09:34	10/10/23 23:17	1
Arsenic	0.024		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:17	1
Barium	0.15		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:17	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:17	1
Boron	0.48	B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 17:29	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:17	1
Calcium	61		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:17	1
Chromium	0.0016	J	0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 21:15	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:17	1
Lead	0.00067		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:17	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:17	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:17	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 23:17	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		09/27/23 10:55	09/28/23 08:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	33		1.0	0.12	mg/L			10/02/23 23:09	1
Fluoride (EPA 300.0)	0.65	J	1.0	0.19	mg/L			10/02/23 23:09	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			10/02/23 23:09	1
Total Dissolved Solids (SM 2540C)	480		10	4.3	mg/L			09/25/23 21:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	15.39				ft			09/21/23 14:46	1
Field pH	6.99				SU			09/21/23 14:46	1
Field Temperature	12.62				Degrees C			09/21/23 14:46	1
Oxidation Reduction Potential	-136.6				millivolts			09/21/23 14:46	1
Oxygen, Dissolved	0				mg/L			09/21/23 14:46	1
Specific Conductance	859.19				umhos/cm			09/21/23 14:46	1
Turbidity	45.12				NTU			09/21/23 14:46	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_038

Lab Sample ID: 500-239823-21

Date Collected: 09/21/23 15:45

Matrix: Water

Date Received: 09/22/23 11:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0027	J	0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 14:10	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		09/27/23 09:34	10/10/23 23:21	1
Arsenic	0.028		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:21	1
Barium	0.19		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:21	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:21	1
Boron	0.42	B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 17:33	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:21	1
Calcium	64		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:21	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 21:19	1
Cobalt	0.00041	J	0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:21	1
Lead	0.00024	J	0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:21	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:21	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:21	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 23:21	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		09/27/23 10:55	09/28/23 08:42	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			10/02/23 23:25	1
Fluoride (EPA 300.0)	0.46	J	1.0	0.19	mg/L			10/02/23 23:25	1
Sulfate (EPA 300.0)	1.2		1.0	0.21	mg/L			10/02/23 23:25	1
Total Dissolved Solids (SM 2540C)	560		10	4.3	mg/L			09/25/23 21:26	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	9.11				ft			09/21/23 15:45	1
Field pH	7.02				SU			09/21/23 15:45	1
Field Temperature	12.51				Degrees C			09/21/23 15:45	1
Oxidation Reduction Potential	-121.7				millivolts			09/21/23 15:45	1
Oxygen, Dissolved	0.03				mg/L			09/21/23 15:45	1
Specific Conductance	1067.60				umhos/cm			09/21/23 15:45	1
Turbidity	9.88				NTU			09/21/23 15:45	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_040

Lab Sample ID: 500-239823-22

Date Collected: 09/21/23 14:30

Matrix: Water

Date Received: 09/22/23 11:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.76		0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 14:15	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		09/27/23 09:34	10/10/23 23:26	1
Arsenic	0.018		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:26	1
Barium	0.029		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:26	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:26	1
Boron	23	B	0.50	0.13	mg/L		09/27/23 09:34	10/11/23 17:42	10
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:26	1
Calcium	490		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:26	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 21:22	1
Cobalt	0.0060		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:26	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:26	1
Molybdenum	0.055		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:26	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:26	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 23:26	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		09/27/23 10:55	09/28/23 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	8.5		1.0	0.12	mg/L			10/03/23 00:12	1
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			10/03/23 00:12	1
Sulfate (EPA 300.0)	3200		200	41	mg/L			10/03/23 00:27	200
Total Dissolved Solids (SM 2540C)	5000		25	11	mg/L			09/27/23 23:43	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	14.70				ft			09/21/23 14:30	1
Turbidity	2.30				NTU			09/21/23 14:30	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_042

Lab Sample ID: 500-239823-23

Date Collected: 09/21/23 13:35

Matrix: Water

Date Received: 09/22/23 11:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0044	J	0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 14:19	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		09/27/23 09:34	10/10/23 23:30	1
Arsenic	0.023		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:30	1
Barium	0.14		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:30	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:30	1
Boron	0.65	B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 17:46	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:30	1
Calcium	81		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:30	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 21:26	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:30	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:30	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:30	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:30	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 23:30	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		09/27/23 10:55	09/28/23 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	16		1.0	0.12	mg/L			10/03/23 01:14	1
Fluoride (EPA 300.0)	0.54	J	1.0	0.19	mg/L			10/03/23 01:14	1
Sulfate (EPA 300.0)	52		10	2.1	mg/L			10/03/23 01:30	10
Total Dissolved Solids (SM 2540C)	570		10	4.3	mg/L			09/25/23 21:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	26.88				ft			09/21/23 13:35	1
Field pH	7.36				SU			09/21/23 13:35	1
Field Temperature	11.72				Degrees C			09/21/23 13:35	1
Oxidation Reduction Potential	-124				millivolts			09/21/23 13:35	1
Oxygen, Dissolved	0.73				mg/L			09/21/23 13:35	1
Specific Conductance	1015.20				umhos/cm			09/21/23 13:35	1
Turbidity	5.72				NTU			09/21/23 13:35	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_043

Lab Sample ID: 500-239823-24

Date Collected: 09/21/23 14:30

Matrix: Water

Date Received: 09/22/23 11:09

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0092		0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 14:23	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		09/27/23 09:34	10/10/23 23:43	1
Arsenic	0.0091		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:43	1
Barium	0.47		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:43	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:43	1
Boron	1.1	B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 17:50	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:43	1
Calcium	61		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:43	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 21:29	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:43	1
Lead	0.00027	J	0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:43	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:43	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:43	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 23:43	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		09/27/23 10:55	09/28/23 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	71	B	5.0	0.58	mg/L			10/04/23 07:16	5
Fluoride (EPA 300.0)	0.52	J	1.0	0.19	mg/L			10/03/23 01:45	1
Sulfate (EPA 300.0)	1.9		1.0	0.21	mg/L			10/03/23 01:45	1
Total Dissolved Solids (SM 2540C)	620		10	4.3	mg/L			09/25/23 21:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	16.81				ft			09/21/23 14:30	1
Field pH	7.37				SU			09/21/23 14:30	1
Field Temperature	12.59				Degrees C			09/21/23 14:30	1
Oxidation Reduction Potential	-128.5				millivolts			09/21/23 14:30	1
Oxygen, Dissolved	0.3				mg/L			09/21/23 14:30	1
Specific Conductance	1159.30				umhos/cm			09/21/23 14:30	1
Turbidity	7.43				NTU			09/21/23 14:30	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_EB-01

Lab Sample ID: 500-239823-25

Date Collected: 09/21/23 08:40

Matrix: Water

Date Received: 09/22/23 11:09

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		09/25/23 09:01	09/28/23 14:28	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		09/27/23 09:34	10/10/23 23:47	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:47	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:47	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:47	1
Boron	0.013	J B	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 17:54	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:47	1
Calcium	0.096	J	0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:47	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 21:33	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:47	1
Lead	0.00029	J	0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:47	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:47	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:47	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 23:47	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		09/27/23 10:55	09/28/23 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	0.21	J	1.0	0.12	mg/L			10/03/23 02:01	1
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			10/03/23 02:01	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			10/03/23 02:01	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			09/25/23 21:36	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_EB-02

Lab Sample ID: 500-239823-26

Date Collected: 09/22/23 07:30

Matrix: Water

Date Received: 09/22/23 14:10

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		09/25/23 09:01	09/28/23 14:32	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		09/27/23 09:34	10/10/23 23:52	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 23:52	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 23:52	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 23:52	1
Boron	<0.050	^+	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 18:13	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 23:52	1
Calcium	<0.20		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 23:52	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 21:36	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 23:52	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 23:52	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 23:52	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 23:52	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 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		09/27/23 10:55	09/28/23 08:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	<1.0		1.0	0.12	mg/L			10/03/23 02:17	1
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			10/03/23 02:17	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			10/03/23 02:17	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			09/25/23 21:39	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_FB/EB-1

Lab Sample ID: 500-239823-29

Date Collected: 09/25/23 18:00

Matrix: Water

Date Received: 09/26/23 11:13

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		09/27/23 09:25	10/11/23 16:48	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		09/28/23 08:31	10/12/23 01:03	1
Arsenic	0.00031	J	0.0010	0.00023	mg/L		09/28/23 08:31	10/12/23 01:03	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/28/23 08:31	10/12/23 01:03	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/28/23 08:31	10/12/23 01:03	1
Boron	0.022	J B	0.050	0.013	mg/L		09/28/23 08:31	10/12/23 01:03	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/28/23 08:31	10/12/23 01:03	1
Calcium	0.046	J	0.20	0.044	mg/L		09/28/23 08:31	10/12/23 01:03	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/28/23 08:31	10/12/23 01:03	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/28/23 08:31	10/12/23 01:03	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/28/23 08:31	10/12/23 01:03	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/28/23 08:31	10/12/23 01:03	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/28/23 08:31	10/12/23 01:03	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/28/23 08:31	10/12/23 01:03	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		09/28/23 10:25	09/29/23 08:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	0.21	J	1.0	0.12	mg/L			10/03/23 03:35	1
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			10/03/23 03:35	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			10/03/23 03:35	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			09/26/23 22:36	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_101&

Lab Sample ID: 500-239823-30

Date Collected: 09/25/23 16:12

Matrix: Water

Date Received: 09/26/23 11:13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0041	J	0.0050	0.0020	mg/L		09/27/23 09:25	10/11/23 17:08	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		09/28/23 08:31	10/12/23 01:11	1
Arsenic	0.051		0.0010	0.00023	mg/L		09/28/23 08:31	10/12/23 01:11	1
Barium	0.13		0.0025	0.00073	mg/L		09/28/23 08:31	10/12/23 01:11	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/28/23 08:31	10/12/23 01:11	1
Boron	2.1	B	0.050	0.013	mg/L		09/28/23 08:31	10/12/23 01:11	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/28/23 08:31	10/12/23 01:11	1
Chromium	0.0024	J	0.0050	0.0011	mg/L		09/28/23 08:31	10/12/23 01:11	1
Cobalt	0.00069	J	0.0010	0.00040	mg/L		09/28/23 08:31	10/12/23 01:11	1
Lead	0.00072		0.00050	0.00019	mg/L		09/28/23 08:31	10/12/23 01:11	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/28/23 08:31	10/12/23 01:11	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/28/23 08:31	10/12/23 01:11	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/28/23 08:31	10/12/23 01:11	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		09/28/23 10:25	09/29/23 08:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	10		1.0	0.12	mg/L			10/03/23 04:22	1
Fluoride (EPA 300.0)	0.82	J	1.0	0.19	mg/L			10/03/23 04:22	1
Sulfate (EPA 300.0)	7.5		1.0	0.21	mg/L			10/03/23 04:22	1
Total Dissolved Solids (SM 2540C)	490		10	4.3	mg/L			09/26/23 22:38	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	108.55				ft			09/25/23 16:12	1
Field pH	7.3				SU			09/25/23 16:12	1
Field Temperature	18.93				Degrees C			09/25/23 16:12	1
Oxidation Reduction Potential	-140.5				millivolts			09/25/23 16:12	1
Oxygen, Dissolved	0.33				mg/L			09/25/23 16:12	1
Specific Conductance	736.61				umhos/cm			09/25/23 16:12	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_103&

Lab Sample ID: 500-239823-33

Date Collected: 09/26/23 10:43

Matrix: Water

Date Received: 09/27/23 11:31

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.076		0.0050	0.0020	mg/L		09/28/23 08:37	10/02/23 16:28	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		09/28/23 08:31	10/12/23 01:19	1
Arsenic	0.0022		0.0010	0.00023	mg/L		09/28/23 08:31	10/12/23 01:19	1
Barium	0.025		0.0025	0.00073	mg/L		09/28/23 08:31	10/12/23 01:19	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/28/23 08:31	10/12/23 01:19	1
Boron	0.40	B	0.050	0.013	mg/L		09/28/23 08:31	10/12/23 01:19	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/28/23 08:31	10/12/23 01:19	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/28/23 08:31	10/12/23 01:19	1
Cobalt	0.0014		0.0010	0.00040	mg/L		09/28/23 08:31	10/12/23 01:19	1
Lead	0.00034	J	0.00050	0.00019	mg/L		09/28/23 08:31	10/12/23 01:19	1
Molybdenum	0.0065		0.0050	0.0025	mg/L		09/28/23 08:31	10/12/23 01:19	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/28/23 08:31	10/12/23 01:19	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/28/23 08:31	10/12/23 01:19	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		09/28/23 10:25	09/29/23 09:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	8.0		1.0	0.12	mg/L			10/05/23 17:56	1
Fluoride (EPA 300.0)	0.54	J	1.0	0.19	mg/L			10/05/23 17:56	1
Sulfate (EPA 300.0)	1100		200	41	mg/L			10/05/23 18:11	200
Total Dissolved Solids (SM 2540C)	2100		10	4.3	mg/L			09/29/23 03:04	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	138.00				ft			09/26/23 10:43	1
Field pH	7.03				SU			09/26/23 10:43	1
Field Temperature	18.03				Degrees C			09/26/23 10:43	1
Oxidation Reduction Potential	85.1				millivolts			09/26/23 10:43	1
Oxygen, Dissolved	4.75				mg/L			09/26/23 10:43	1
Specific Conductance	2328.00				umhos/cm			09/26/23 10:43	1
Turbidity	37.4				NTU			09/26/23 10:43	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_EB-1

Lab Sample ID: 500-239823-35

Date Collected: 09/26/23 17:00

Matrix: Water

Date Received: 09/27/23 11:31

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		09/28/23 08:37	10/02/23 16:45	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		09/28/23 08:31	10/12/23 01:43	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/28/23 08:31	10/12/23 01:43	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/28/23 08:31	10/12/23 01:43	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/28/23 08:31	10/12/23 01:43	1
Boron	<0.050		0.050	0.013	mg/L		09/28/23 08:31	10/18/23 17:57	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/28/23 08:31	10/12/23 01:43	1
Calcium	0.054	J	0.20	0.044	mg/L		09/28/23 08:31	10/12/23 01:43	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/28/23 08:31	10/12/23 01:43	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/28/23 08:31	10/12/23 01:43	1
Lead	0.00020	J	0.00050	0.00019	mg/L		09/28/23 08:31	10/12/23 01:43	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/28/23 08:31	10/12/23 01:43	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/28/23 08:31	10/12/23 01:43	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/28/23 08:31	10/12/23 01:43	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		09/28/23 10:25	09/29/23 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	0.17	J	1.0	0.12	mg/L			10/05/23 18:57	1
Fluoride (EPA 300.0)	<1.0		1.0	0.19	mg/L			10/05/23 18:57	1
Sulfate (EPA 300.0)	3.4		1.0	0.21	mg/L			10/05/23 18:57	1
Total Dissolved Solids (SM 2540C)	<10		10	4.3	mg/L			09/29/23 03:09	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Client Sample ID: VER_007R
Date Collected: 09/18/23 13:17
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-36
Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	15.94				ft			09/18/23 13:17	1

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

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
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
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.

Glossary

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

QC Association Summary

Metals

Prep Batch: 733782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total Recoverable	Water	200.7	
500-239823-8	VER_002DUP	Total Recoverable	Water	200.7	
500-239823-9	VER_004	Total Recoverable	Water	200.7	
500-239823-10	VER_021	Total Recoverable	Water	200.7	
500-239823-11	VER_036	Total Recoverable	Water	200.7	
500-239823-12	VER_037	Total Recoverable	Water	200.7	
500-239823-13	VER_041	Total Recoverable	Water	200.7	
500-239823-14	VER_003R	Total Recoverable	Water	200.7	
500-239823-15	VER_005	Total Recoverable	Water	200.7	
500-239823-16	VER_008R	Total Recoverable	Water	200.7	
500-239823-18	VER_017	Total Recoverable	Water	200.7	
500-239823-19	VER_020	Total Recoverable	Water	200.7	
500-239823-20	VER_034	Total Recoverable	Water	200.7	
500-239823-21	VER_038	Total Recoverable	Water	200.7	
500-239823-22	VER_040	Total Recoverable	Water	200.7	
500-239823-23	VER_042	Total Recoverable	Water	200.7	
500-239823-24	VER_043	Total Recoverable	Water	200.7	
500-239823-25	VER_EB-01	Total Recoverable	Water	200.7	
500-239823-26	VER_EB-02	Total Recoverable	Water	200.7	
MB 500-733782/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-733782/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-239823-9 MS	VER_004_MS	Total Recoverable	Water	200.7	
500-239823-9 MSD	VER_004_MSD	Total Recoverable	Water	200.7	
500-239823-26 MS	VER_EB-02	Total Recoverable	Water	200.7	
500-239823-9 DU	VER_004	Total Recoverable	Water	200.7	
500-239823-26 DU	VER_EB-02	Total Recoverable	Water	200.7	

Prep Batch: 734230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total Recoverable	Water	200.7	
500-239823-30	VER_101&	Total Recoverable	Water	200.7	
MB 500-734230/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-734230/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-239823-29 MS	VER_FB/EB-1	Total Recoverable	Water	200.7	
500-239823-29 DU	VER_FB/EB-1	Total Recoverable	Water	200.7	

Prep Batch: 734233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total Recoverable	Water	3005A	
500-239823-8	VER_002DUP	Total Recoverable	Water	3005A	
500-239823-9	VER_004	Total Recoverable	Water	3005A	
500-239823-10	VER_021	Total Recoverable	Water	3005A	
500-239823-11	VER_036	Total Recoverable	Water	3005A	
500-239823-12	VER_037	Total Recoverable	Water	3005A	
500-239823-13	VER_041	Total Recoverable	Water	3005A	
500-239823-14	VER_003R	Total Recoverable	Water	3005A	
500-239823-15	VER_005	Total Recoverable	Water	3005A	
500-239823-16	VER_008R	Total Recoverable	Water	3005A	
500-239823-18	VER_017	Total Recoverable	Water	3005A	
500-239823-19	VER_020	Total Recoverable	Water	3005A	
500-239823-20	VER_034	Total Recoverable	Water	3005A	

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Metals (Continued)

Prep Batch: 734233 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-21	VER_038	Total Recoverable	Water	3005A	
500-239823-22	VER_040	Total Recoverable	Water	3005A	
500-239823-23	VER_042	Total Recoverable	Water	3005A	
500-239823-24	VER_043	Total Recoverable	Water	3005A	
500-239823-25	VER_EB-01	Total Recoverable	Water	3005A	
500-239823-26	VER_EB-02	Total Recoverable	Water	3005A	
MB 500-734233/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-734233/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-239823-9 MS	VER_004_MS	Total Recoverable	Water	3005A	
500-239823-9 MSD	VER_004_MSD	Total Recoverable	Water	3005A	
500-239823-9 DU	VER_004	Total Recoverable	Water	3005A	

Prep Batch: 734254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total/NA	Water	7470A	
500-239823-8	VER_002DUP	Total/NA	Water	7470A	
500-239823-9	VER_004	Total/NA	Water	7470A	
500-239823-10	VER_021	Total/NA	Water	7470A	
500-239823-11	VER_036	Total/NA	Water	7470A	
500-239823-12	VER_037	Total/NA	Water	7470A	
500-239823-13	VER_041	Total/NA	Water	7470A	
500-239823-14	VER_003R	Total/NA	Water	7470A	
500-239823-15	VER_005	Total/NA	Water	7470A	
500-239823-16	VER_008R	Total/NA	Water	7470A	
500-239823-18	VER_017	Total/NA	Water	7470A	
500-239823-19	VER_020	Total/NA	Water	7470A	
500-239823-20	VER_034	Total/NA	Water	7470A	
500-239823-21	VER_038	Total/NA	Water	7470A	
500-239823-22	VER_040	Total/NA	Water	7470A	
500-239823-23	VER_042	Total/NA	Water	7470A	
500-239823-24	VER_043	Total/NA	Water	7470A	
500-239823-25	VER_EB-01	Total/NA	Water	7470A	
500-239823-26	VER_EB-02	Total/NA	Water	7470A	
MB 500-734254/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-734254/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-239823-9 MS	VER_004_MS	Total/NA	Water	7470A	
500-239823-9 MSD	VER_004_MSD	Total/NA	Water	7470A	
500-239823-9 DU	VER_004	Total/NA	Water	7470A	

Prep Batch: 734405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total Recoverable	Water	3005A	
500-239823-30	VER_101&	Total Recoverable	Water	3005A	
500-239823-33	VER_103&	Total Recoverable	Water	3005A	
500-239823-35	VER_EB-1	Total Recoverable	Water	3005A	
MB 500-734405/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-734405/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 734408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-33	VER_103&	Total Recoverable	Water	200.7	

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Metals (Continued)

Prep Batch: 734408 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-35	VER_EB-1	Total Recoverable	Water	200.7	
MB 500-734408/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-734408/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 734443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total/NA	Water	7470A	734254
500-239823-8	VER_002DUP	Total/NA	Water	7470A	734254
500-239823-9	VER_004	Total/NA	Water	7470A	734254
500-239823-10	VER_021	Total/NA	Water	7470A	734254
500-239823-11	VER_036	Total/NA	Water	7470A	734254
500-239823-12	VER_037	Total/NA	Water	7470A	734254
500-239823-13	VER_041	Total/NA	Water	7470A	734254
500-239823-14	VER_003R	Total/NA	Water	7470A	734254
500-239823-15	VER_005	Total/NA	Water	7470A	734254
500-239823-16	VER_008R	Total/NA	Water	7470A	734254
500-239823-18	VER_017	Total/NA	Water	7470A	734254
500-239823-19	VER_020	Total/NA	Water	7470A	734254
500-239823-20	VER_034	Total/NA	Water	7470A	734254
500-239823-21	VER_038	Total/NA	Water	7470A	734254
500-239823-22	VER_040	Total/NA	Water	7470A	734254
500-239823-23	VER_042	Total/NA	Water	7470A	734254
500-239823-24	VER_043	Total/NA	Water	7470A	734254
500-239823-25	VER_EB-01	Total/NA	Water	7470A	734254
500-239823-26	VER_EB-02	Total/NA	Water	7470A	734254
MB 500-734254/12-A	Method Blank	Total/NA	Water	7470A	734254
LCS 500-734254/13-A	Lab Control Sample	Total/NA	Water	7470A	734254
500-239823-9 MS	VER_004_MS	Total/NA	Water	7470A	734254
500-239823-9 MSD	VER_004_MSD	Total/NA	Water	7470A	734254
500-239823-9 DU	VER_004	Total/NA	Water	7470A	734254

Prep Batch: 734449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total/NA	Water	7470A	
500-239823-30	VER_101&	Total/NA	Water	7470A	
500-239823-33	VER_103&	Total/NA	Water	7470A	
500-239823-35	VER_EB-1	Total/NA	Water	7470A	
MB 500-734449/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-734449/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-239823-30 MS	VER_101&	Total/NA	Water	7470A	
500-239823-30 MSD	VER_101&	Total/NA	Water	7470A	
500-239823-30 DU	VER_101&	Total/NA	Water	7470A	

Analysis Batch: 734631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-8	VER_002DUP	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-9	VER_004	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-10	VER_021	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-11	VER_036	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-12	VER_037	Total Recoverable	Water	200.7 Rev 4.4	733782

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Metals (Continued)

Analysis Batch: 734631 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-13	VER_041	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-14	VER_003R	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-15	VER_005	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-16	VER_008R	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-18	VER_017	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-19	VER_020	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-20	VER_034	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-21	VER_038	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-22	VER_040	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-23	VER_042	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-24	VER_043	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-25	VER_EB-01	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-26	VER_EB-02	Total Recoverable	Water	200.7 Rev 4.4	733782
MB 500-733782/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	733782
LCS 500-733782/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-9 MS	VER_004_MS	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-9 MSD	VER_004_MSD	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-26 MS	VER_EB-02	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-9 DU	VER_004	Total Recoverable	Water	200.7 Rev 4.4	733782
500-239823-26 DU	VER_EB-02	Total Recoverable	Water	200.7 Rev 4.4	733782

Analysis Batch: 734668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total/NA	Water	7470A	734449
500-239823-30	VER_101&	Total/NA	Water	7470A	734449
500-239823-33	VER_103&	Total/NA	Water	7470A	734449
500-239823-35	VER_EB-1	Total/NA	Water	7470A	734449
MB 500-734449/12-A	Method Blank	Total/NA	Water	7470A	734449
LCS 500-734449/13-A	Lab Control Sample	Total/NA	Water	7470A	734449
500-239823-30 MS	VER_101&	Total/NA	Water	7470A	734449
500-239823-30 MSD	VER_101&	Total/NA	Water	7470A	734449
500-239823-30 DU	VER_101&	Total/NA	Water	7470A	734449

Analysis Batch: 735077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-33	VER_103&	Total Recoverable	Water	200.7 Rev 4.4	734408
500-239823-35	VER_EB-1	Total Recoverable	Water	200.7 Rev 4.4	734408
MB 500-734408/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	734408
LCS 500-734408/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	734408

Analysis Batch: 736355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total Recoverable	Water	6020B	734233
500-239823-8	VER_002DUP	Total Recoverable	Water	6020B	734233
500-239823-9	VER_004	Total Recoverable	Water	6020B	734233
500-239823-10	VER_021	Total Recoverable	Water	6020B	734233
500-239823-11	VER_036	Total Recoverable	Water	6020B	734233
500-239823-12	VER_037	Total Recoverable	Water	6020B	734233
500-239823-13	VER_041	Total Recoverable	Water	6020B	734233
500-239823-14	VER_003R	Total Recoverable	Water	6020B	734233
500-239823-15	VER_005	Total Recoverable	Water	6020B	734233

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Metals (Continued)

Analysis Batch: 736355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-16	VER_008R	Total Recoverable	Water	6020B	734233
500-239823-18	VER_017	Total Recoverable	Water	6020B	734233
500-239823-19	VER_020	Total Recoverable	Water	6020B	734233
500-239823-20	VER_034	Total Recoverable	Water	6020B	734233
500-239823-21	VER_038	Total Recoverable	Water	6020B	734233
500-239823-22	VER_040	Total Recoverable	Water	6020B	734233
500-239823-23	VER_042	Total Recoverable	Water	6020B	734233
500-239823-24	VER_043	Total Recoverable	Water	6020B	734233
500-239823-25	VER_EB-01	Total Recoverable	Water	6020B	734233
500-239823-26	VER_EB-02	Total Recoverable	Water	6020B	734233
MB 500-734233/1-A	Method Blank	Total Recoverable	Water	6020B	734233
LCS 500-734233/2-A	Lab Control Sample	Total Recoverable	Water	6020B	734233
500-239823-9 MS	VER_004_MS	Total Recoverable	Water	6020B	734233
500-239823-9 MSD	VER_004_MSD	Total Recoverable	Water	6020B	734233
500-239823-9 DU	VER_004	Total Recoverable	Water	6020B	734233

Analysis Batch: 736513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total Recoverable	Water	6020B	734233
500-239823-8	VER_002DUP	Total Recoverable	Water	6020B	734233
500-239823-9	VER_004	Total Recoverable	Water	6020B	734233
500-239823-10	VER_021	Total Recoverable	Water	6020B	734233
500-239823-11	VER_036	Total Recoverable	Water	6020B	734233
500-239823-12	VER_037	Total Recoverable	Water	6020B	734233
500-239823-13	VER_041	Total Recoverable	Water	6020B	734233
500-239823-14	VER_003R	Total Recoverable	Water	6020B	734233
500-239823-15	VER_005	Total Recoverable	Water	6020B	734233
500-239823-16	VER_008R	Total Recoverable	Water	6020B	734233
MB 500-734233/1-A	Method Blank	Total Recoverable	Water	6020B	734233
LCS 500-734233/2-A	Lab Control Sample	Total Recoverable	Water	6020B	734233
500-239823-9 MS	VER_004_MS	Total Recoverable	Water	6020B	734233
500-239823-9 MSD	VER_004_MSD	Total Recoverable	Water	6020B	734233
500-239823-9 DU	VER_004	Total Recoverable	Water	6020B	734233

Analysis Batch: 736570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total Recoverable	Water	6020B	734233
500-239823-8	VER_002DUP	Total Recoverable	Water	6020B	734233
500-239823-9	VER_004	Total Recoverable	Water	6020B	734233
500-239823-10	VER_021	Total Recoverable	Water	6020B	734233
500-239823-11	VER_036	Total Recoverable	Water	6020B	734233
500-239823-12	VER_037	Total Recoverable	Water	6020B	734233
500-239823-13	VER_041	Total Recoverable	Water	6020B	734233
500-239823-14	VER_003R	Total Recoverable	Water	6020B	734233
500-239823-15	VER_005	Total Recoverable	Water	6020B	734233
500-239823-16	VER_008R	Total Recoverable	Water	6020B	734233
500-239823-18	VER_017	Total Recoverable	Water	6020B	734233
500-239823-19	VER_020	Total Recoverable	Water	6020B	734233
500-239823-20	VER_034	Total Recoverable	Water	6020B	734233
500-239823-21	VER_038	Total Recoverable	Water	6020B	734233
500-239823-22	VER_040	Total Recoverable	Water	6020B	734233

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Metals (Continued)

Analysis Batch: 736570 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-23	VER_042	Total Recoverable	Water	6020B	734233
500-239823-24	VER_043	Total Recoverable	Water	6020B	734233
500-239823-25	VER_EB-01	Total Recoverable	Water	6020B	734233
500-239823-26	VER_EB-02	Total Recoverable	Water	6020B	734233
MB 500-734233/1-A	Method Blank	Total Recoverable	Water	6020B	734233
LCS 500-734233/2-A	Lab Control Sample	Total Recoverable	Water	6020B	734233
500-239823-9 MS	VER_004_MS	Total Recoverable	Water	6020B	734233
500-239823-9 MSD	VER_004_MSD	Total Recoverable	Water	6020B	734233
500-239823-9 DU	VER_004	Total Recoverable	Water	6020B	734233

Analysis Batch: 736629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total Recoverable	Water	6020B	734405
500-239823-30	VER_101&	Total Recoverable	Water	6020B	734405
500-239823-33	VER_103&	Total Recoverable	Water	6020B	734405
500-239823-35	VER_EB-1	Total Recoverable	Water	6020B	734405
MB 500-734405/1-A	Method Blank	Total Recoverable	Water	6020B	734405
LCS 500-734405/2-A	Lab Control Sample	Total Recoverable	Water	6020B	734405

Analysis Batch: 736638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-18	VER_017	Total Recoverable	Water	6020B	734233
500-239823-19	VER_020	Total Recoverable	Water	6020B	734233
500-239823-20	VER_034	Total Recoverable	Water	6020B	734233
500-239823-21	VER_038	Total Recoverable	Water	6020B	734233
500-239823-22	VER_040	Total Recoverable	Water	6020B	734233
500-239823-23	VER_042	Total Recoverable	Water	6020B	734233
500-239823-24	VER_043	Total Recoverable	Water	6020B	734233
500-239823-25	VER_EB-01	Total Recoverable	Water	6020B	734233
500-239823-26	VER_EB-02	Total Recoverable	Water	6020B	734233

Analysis Batch: 736686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total Recoverable	Water	200.7 Rev 4.4	734230
500-239823-30	VER_101&	Total Recoverable	Water	200.7 Rev 4.4	734230
MB 500-734230/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	734230
LCS 500-734230/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	734230
500-239823-29 MS	VER_FB/EB-1	Total Recoverable	Water	200.7 Rev 4.4	734230
500-239823-29 DU	VER_FB/EB-1	Total Recoverable	Water	200.7 Rev 4.4	734230

Analysis Batch: 737762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-35	VER_EB-1	Total Recoverable	Water	6020B	734405

General Chemistry

Analysis Batch: 733484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total/NA	Water	SM 2540C	
500-239823-8	VER_002DUP	Total/NA	Water	SM 2540C	
500-239823-9	VER_004	Total/NA	Water	SM 2540C	

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

General Chemistry (Continued)

Analysis Batch: 733484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-10	VER_021	Total/NA	Water	SM 2540C	
500-239823-11	VER_036	Total/NA	Water	SM 2540C	
500-239823-12	VER_037	Total/NA	Water	SM 2540C	
500-239823-13	VER_041	Total/NA	Water	SM 2540C	
MB 500-733484/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-733484/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-239823-9 MS	VER_004_MS	Total/NA	Water	SM 2540C	
500-239823-9 MSD	VER_004_MSD	Total/NA	Water	SM 2540C	
500-239823-8 DU	VER_002DUP	Total/NA	Water	SM 2540C	

Analysis Batch: 733938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-14	VER_003R	Total/NA	Water	SM 2540C	
500-239823-15	VER_005	Total/NA	Water	SM 2540C	
MB 500-733938/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-733938/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 733939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-16	VER_008R	Total/NA	Water	SM 2540C	
500-239823-18	VER_017	Total/NA	Water	SM 2540C	
500-239823-19	VER_020	Total/NA	Water	SM 2540C	
500-239823-20	VER_034	Total/NA	Water	SM 2540C	
500-239823-21	VER_038	Total/NA	Water	SM 2540C	
500-239823-23	VER_042	Total/NA	Water	SM 2540C	
500-239823-24	VER_043	Total/NA	Water	SM 2540C	
500-239823-25	VER_EB-01	Total/NA	Water	SM 2540C	
500-239823-26	VER_EB-02	Total/NA	Water	SM 2540C	
MB 500-733939/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-733939/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 734131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total/NA	Water	SM 2540C	
500-239823-30	VER_101&	Total/NA	Water	SM 2540C	
MB 500-734131/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-734131/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 734349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-22	VER_040	Total/NA	Water	SM 2540C	
MB 500-734349/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-734349/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-239823-22 MS	VER_040	Total/NA	Water	SM 2540C	
500-239823-22 DU	VER_040	Total/NA	Water	SM 2540C	

Analysis Batch: 734440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total/NA	Water	300.0	
500-239823-8	VER_002DUP	Total/NA	Water	300.0	
500-239823-9	VER_004	Total/NA	Water	300.0	

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

General Chemistry (Continued)

Analysis Batch: 734440 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-734440/44	Method Blank	Total/NA	Water	300.0	
LCS 500-734440/45	Lab Control Sample	Total/NA	Water	300.0	
500-239823-9 MS	VER_004_MS	Total/NA	Water	300.0	
500-239823-9 MSD	VER_004_MSD	Total/NA	Water	300.0	

Analysis Batch: 734546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-33	VER_103&	Total/NA	Water	SM 2540C	
500-239823-35	VER_EB-1	Total/NA	Water	SM 2540C	
MB 500-734546/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-734546/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 734790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total/NA	Water	300.0	
500-239823-8	VER_002DUP	Total/NA	Water	300.0	
MB 500-734790/3	Method Blank	Total/NA	Water	300.0	
LCS 500-734790/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 734951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-10	VER_021	Total/NA	Water	300.0	
500-239823-11	VER_036	Total/NA	Water	300.0	
500-239823-11	VER_036	Total/NA	Water	300.0	
500-239823-12	VER_037	Total/NA	Water	300.0	
500-239823-12	VER_037	Total/NA	Water	300.0	
500-239823-13	VER_041	Total/NA	Water	300.0	
500-239823-14	VER_003R	Total/NA	Water	300.0	
500-239823-14	VER_003R	Total/NA	Water	300.0	
500-239823-15	VER_005	Total/NA	Water	300.0	
500-239823-15	VER_005	Total/NA	Water	300.0	
500-239823-16	VER_008R	Total/NA	Water	300.0	
500-239823-16	VER_008R	Total/NA	Water	300.0	
500-239823-18	VER_017	Total/NA	Water	300.0	
500-239823-18	VER_017	Total/NA	Water	300.0	
500-239823-19	VER_020	Total/NA	Water	300.0	
500-239823-19	VER_020	Total/NA	Water	300.0	
500-239823-20	VER_034	Total/NA	Water	300.0	
500-239823-21	VER_038	Total/NA	Water	300.0	
500-239823-22	VER_040	Total/NA	Water	300.0	
500-239823-22	VER_040	Total/NA	Water	300.0	
500-239823-23	VER_042	Total/NA	Water	300.0	
500-239823-23	VER_042	Total/NA	Water	300.0	
500-239823-24	VER_043	Total/NA	Water	300.0	
500-239823-25	VER_EB-01	Total/NA	Water	300.0	
500-239823-26	VER_EB-02	Total/NA	Water	300.0	
500-239823-29	VER_FB/EB-1	Total/NA	Water	300.0	
500-239823-30	VER_101&	Total/NA	Water	300.0	
MB 500-734951/3	Method Blank	Total/NA	Water	300.0	
MB 500-734951/45	Method Blank	Total/NA	Water	300.0	
LCS 500-734951/4	Lab Control Sample	Total/NA	Water	300.0	

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

General Chemistry (Continued)

Analysis Batch: 734951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-734951/46	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 735148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-13	VER_041	Total/NA	Water	300.0	
500-239823-24	VER_043	Total/NA	Water	300.0	
MB 500-735148/11	Method Blank	Total/NA	Water	300.0	
MB 500-735148/42	Method Blank	Total/NA	Water	300.0	
LCS 500-735148/12	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-735148/43	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 735574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-33	VER_103&	Total/NA	Water	300.0	
500-239823-33	VER_103&	Total/NA	Water	300.0	
500-239823-35	VER_EB-1	Total/NA	Water	300.0	
MB 500-735574/3	Method Blank	Total/NA	Water	300.0	
LCS 500-735574/4	Lab Control Sample	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 737033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total/NA	Water	Field Sampling	
500-239823-8	VER_002DUP	Total/NA	Water	Field Sampling	
500-239823-9	VER_004	Total/NA	Water	Field Sampling	
500-239823-10	VER_021	Total/NA	Water	Field Sampling	
500-239823-11	VER_036	Total/NA	Water	Field Sampling	
500-239823-12	VER_037	Total/NA	Water	Field Sampling	
500-239823-13	VER_041	Total/NA	Water	Field Sampling	
500-239823-14	VER_003R	Total/NA	Water	Field Sampling	
500-239823-15	VER_005	Total/NA	Water	Field Sampling	
500-239823-16	VER_008R	Total/NA	Water	Field Sampling	
500-239823-18	VER_017	Total/NA	Water	Field Sampling	
500-239823-19	VER_020	Total/NA	Water	Field Sampling	
500-239823-20	VER_034	Total/NA	Water	Field Sampling	
500-239823-21	VER_038	Total/NA	Water	Field Sampling	
500-239823-22	VER_040	Total/NA	Water	Field Sampling	
500-239823-23	VER_042	Total/NA	Water	Field Sampling	
500-239823-24	VER_043	Total/NA	Water	Field Sampling	
500-239823-30	VER_101&	Total/NA	Water	Field Sampling	
500-239823-33	VER_103&	Total/NA	Water	Field Sampling	
500-239823-36	VER_007R	Total/NA	Water	Field Sampling	

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-733782/1-A
Matrix: Water
Analysis Batch: 734631

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 733782

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/25/23 09:01	09/28/23 12:30	1

Lab Sample ID: LCS 500-733782/2-A
Matrix: Water
Analysis Batch: 734631

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 733782

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: 500-239823-9 MS
Matrix: Water
Analysis Batch: 734631

Client Sample ID: VER_004_MS
Prep Type: Total Recoverable
Prep Batch: 733782

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.049		0.250	0.305		mg/L		102	70 - 130

Lab Sample ID: 500-239823-9 MSD
Matrix: Water
Analysis Batch: 734631

Client Sample ID: VER_004_MSD
Prep Type: Total Recoverable
Prep Batch: 733782

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.049		0.250	0.325		mg/L		111	70 - 130	7	20

Lab Sample ID: 500-239823-26 MS
Matrix: Water
Analysis Batch: 734631

Client Sample ID: VER_EB-02
Prep Type: Total Recoverable
Prep Batch: 733782

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	<0.0050		0.250	0.248		mg/L		99	70 - 130

Lab Sample ID: 500-239823-9 DU
Matrix: Water
Analysis Batch: 734631

Client Sample ID: VER_004
Prep Type: Total Recoverable
Prep Batch: 733782

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.049		0.0487		mg/L		0	20

Lab Sample ID: 500-239823-26 DU
Matrix: Water
Analysis Batch: 734631

Client Sample ID: VER_EB-02
Prep Type: Total Recoverable
Prep Batch: 733782

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	<0.0050		<0.0050		mg/L		NC	20

Lab Sample ID: MB 500-734230/1-A
Matrix: Water
Analysis Batch: 736686

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734230

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/27/23 09:25	10/11/23 16:31	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCS 500-734230/2-A
 Matrix: Water
 Analysis Batch: 736686

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 734230

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.272		mg/L		109	85 - 115

Lab Sample ID: 500-239823-29 MS
 Matrix: Water
 Analysis Batch: 736686

Client Sample ID: VER_FB/EB-1
 Prep Type: Total Recoverable
 Prep Batch: 734230

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	<0.0050		0.250	0.272		mg/L		109	70 - 130

Lab Sample ID: 500-239823-29 DU
 Matrix: Water
 Analysis Batch: 736686

Client Sample ID: VER_FB/EB-1
 Prep Type: Total Recoverable
 Prep Batch: 734230

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	<0.0050		<0.0050		mg/L		NC	20

Lab Sample ID: MB 500-734408/1-A
 Matrix: Water
 Analysis Batch: 735077

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 734408

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		09/28/23 08:37	10/02/23 15:51	1

Lab Sample ID: LCS 500-734408/2-A
 Matrix: Water
 Analysis Batch: 735077

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 734408

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.286		mg/L		114	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-734233/1-A
 Matrix: Water
 Analysis Batch: 736355

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 734233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		09/27/23 09:34	10/10/23 21:41	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/27/23 09:34	10/10/23 21:41	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/27/23 09:34	10/10/23 21:41	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/27/23 09:34	10/10/23 21:41	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/27/23 09:34	10/10/23 21:41	1
Calcium	<0.20		0.20	0.044	mg/L		09/27/23 09:34	10/10/23 21:41	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/27/23 09:34	10/10/23 21:41	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/27/23 09:34	10/10/23 21:41	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/27/23 09:34	10/10/23 21:41	1
Selenium	<0.0025		0.0025	0.00098	mg/L		09/27/23 09:34	10/10/23 21:41	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/27/23 09:34	10/10/23 21:41	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

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

Lab Sample ID: MB 500-734233/1-A
 Matrix: Water
 Analysis Batch: 736513

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 734233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.0050		0.0050	0.0011	mg/L		09/27/23 09:34	10/11/23 11:45	1

Lab Sample ID: MB 500-734233/1-A
 Matrix: Water
 Analysis Batch: 736570

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 734233

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0323	J	0.050	0.013	mg/L		09/27/23 09:34	10/11/23 15:29	1

Lab Sample ID: LCS 500-734233/2-A
 Matrix: Water
 Analysis Batch: 736355

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 734233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.508		mg/L		102	80 - 120
Arsenic	0.100	0.0935		mg/L		94	80 - 120
Barium	0.500	0.521		mg/L		104	80 - 120
Beryllium	0.0500	0.0473		mg/L		95	80 - 120
Cadmium	0.0500	0.0515		mg/L		103	80 - 120
Calcium	10.0	8.43		mg/L		84	80 - 120
Cobalt	0.500	0.512		mg/L		102	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Molybdenum	1.00	0.953		mg/L		95	80 - 120
Selenium	0.100	0.0939		mg/L		94	80 - 120
Thallium	0.100	0.118		mg/L		118	80 - 120

Lab Sample ID: LCS 500-734233/2-A
 Matrix: Water
 Analysis Batch: 736513

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 734233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	0.200	0.208		mg/L		104	80 - 120

Lab Sample ID: LCS 500-734233/2-A
 Matrix: Water
 Analysis Batch: 736570

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 734233

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.996		mg/L		100	80 - 120

Lab Sample ID: 500-239823-9 MS
 Matrix: Water
 Analysis Batch: 736355

Client Sample ID: VER_004_MS
 Prep Type: Total Recoverable
 Prep Batch: 734233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.499		mg/L		100	75 - 125
Arsenic	0.0061		0.100	0.0985		mg/L		92	75 - 125
Barium	0.21		0.500	0.720		mg/L		103	75 - 125
Beryllium	<0.0010		0.0500	0.0444		mg/L		89	75 - 125
Cadmium	<0.00050		0.0500	0.0490		mg/L		98	75 - 125

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

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

Lab Sample ID: 500-239823-9 MS
Matrix: Water
Analysis Batch: 736355

Client Sample ID: VER_004_MS
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	
Calcium	60		10.0	65.0	4	mg/L		51	75 - 125	
Cobalt	0.00059	J	0.500	0.467		mg/L		93	75 - 125	
Lead	<0.00050		0.100	0.103		mg/L		103	75 - 125	
Molybdenum	0.038		1.00	0.990		mg/L		95	75 - 125	
Selenium	<0.0025		0.100	0.0917		mg/L		92	75 - 125	
Thallium	<0.0020		0.100	0.116		mg/L		116	75 - 125	

Lab Sample ID: 500-239823-9 MS
Matrix: Water
Analysis Batch: 736513

Client Sample ID: VER_004_MS
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	
Chromium	<0.025		0.200	0.200		mg/L		100	75 - 125	

Lab Sample ID: 500-239823-9 MS
Matrix: Water
Analysis Batch: 736570

Client Sample ID: VER_004_MS
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	
Boron	10	B	1.00	10.7	4	mg/L		60	75 - 125	

Lab Sample ID: 500-239823-9 MSD
Matrix: Water
Analysis Batch: 736355

Client Sample ID: VER_004_MSD
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	
				Result	Qualifier				Limits		RPD	Limit
Antimony	<0.0030		0.500	0.509		mg/L		102	75 - 125		2	20
Arsenic	0.0061		0.100	0.100		mg/L		94	75 - 125		2	20
Barium	0.21		0.500	0.733		mg/L		105	75 - 125		2	20
Beryllium	<0.0010		0.0500	0.0452		mg/L		90	75 - 125		2	20
Cadmium	<0.00050		0.0500	0.0496		mg/L		99	75 - 125		1	20
Calcium	60		10.0	65.8	4	mg/L		58	75 - 125		1	20
Cobalt	0.00059	J	0.500	0.472		mg/L		94	75 - 125		1	20
Lead	<0.00050		0.100	0.103		mg/L		103	75 - 125		1	20
Molybdenum	0.038		1.00	1.00		mg/L		96	75 - 125		1	20
Selenium	<0.0025		0.100	0.0941		mg/L		94	75 - 125		3	20
Thallium	<0.0020		0.100	0.116		mg/L		116	75 - 125		1	20

Lab Sample ID: 500-239823-9 MSD
Matrix: Water
Analysis Batch: 736513

Client Sample ID: VER_004_MSD
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	
				Result	Qualifier				Limits		RPD	Limit
Chromium	<0.025		0.200	0.201		mg/L		101	75 - 125		1	20

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

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

Lab Sample ID: 500-239823-9 MSD
Matrix: Water
Analysis Batch: 736570

Client Sample ID: VER_004_MSD
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
Boron	10	B	1.00	10.7	4	mg/L		63	75 - 125	0	20

Lab Sample ID: 500-239823-9 DU
Matrix: Water
Analysis Batch: 736355

Client Sample ID: VER_004
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier		Result				Qualifier
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.0061		0.00588		mg/L		3	20
Barium	0.21		0.202		mg/L		2	20
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	60		59.3		mg/L		1	20
Cobalt	0.00059	J	0.000574	J	mg/L		2	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Molybdenum	0.038		0.0375		mg/L		2	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-239823-9 DU
Matrix: Water
Analysis Batch: 736513

Client Sample ID: VER_004
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier		Result				Qualifier
Chromium	<0.025		<0.025		mg/L		NC	20

Lab Sample ID: 500-239823-9 DU
Matrix: Water
Analysis Batch: 736570

Client Sample ID: VER_004
Prep Type: Total Recoverable
Prep Batch: 734233

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD
	Result	Qualifier		Result				Qualifier
Boron	10	B	9.68		mg/L		4	20

Lab Sample ID: MB 500-734405/1-A
Matrix: Water
Analysis Batch: 736629

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 734405

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier		Result					
Antimony	<0.0030		0.0030	0.0013	mg/L		09/28/23 08:31	10/11/23 23:52	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		09/28/23 08:31	10/11/23 23:52	1
Barium	<0.0025		0.0025	0.00073	mg/L		09/28/23 08:31	10/11/23 23:52	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		09/28/23 08:31	10/11/23 23:52	1
Boron	0.0386	J	0.050	0.013	mg/L		09/28/23 08:31	10/11/23 23:52	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		09/28/23 08:31	10/11/23 23:52	1
Calcium	<0.20		0.20	0.044	mg/L		09/28/23 08:31	10/11/23 23:52	1
Chromium	<0.0050		0.0050	0.0011	mg/L		09/28/23 08:31	10/11/23 23:52	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		09/28/23 08:31	10/11/23 23:52	1
Lead	<0.00050		0.00050	0.00019	mg/L		09/28/23 08:31	10/11/23 23:52	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		09/28/23 08:31	10/11/23 23:52	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

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

Lab Sample ID: MB 500-734405/1-A
 Matrix: Water
 Analysis Batch: 736629

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 734405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0025		0.0025	0.00098	mg/L		09/28/23 08:31	10/11/23 23:52	1
Thallium	<0.0020		0.0020	0.00057	mg/L		09/28/23 08:31	10/11/23 23:52	1

Lab Sample ID: LCS 500-734405/2-A
 Matrix: Water
 Analysis Batch: 736629

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 734405

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.515		mg/L		103	80 - 120
Arsenic	0.100	0.0983		mg/L		98	80 - 120
Barium	0.500	0.542		mg/L		108	80 - 120
Beryllium	0.0500	0.0561		mg/L		112	80 - 120
Boron	1.00	1.07		mg/L		107	80 - 120
Cadmium	0.0500	0.0531		mg/L		106	80 - 120
Calcium	10.0	8.93		mg/L		89	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Cobalt	0.500	0.526		mg/L		105	80 - 120
Lead	0.100	0.111		mg/L		111	80 - 120
Molybdenum	1.00	0.976		mg/L		98	80 - 120
Selenium	0.100	0.0998		mg/L		100	80 - 120
Thallium	0.100	0.113		mg/L		113	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-734254/12-A
 Matrix: Water
 Analysis Batch: 734443

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 734254

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/27/23 10:55	09/28/23 07:53	1

Lab Sample ID: LCS 500-734254/13-A
 Matrix: Water
 Analysis Batch: 734443

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 734254

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00202		mg/L		101	80 - 120

Lab Sample ID: 500-239823-9 MS
 Matrix: Water
 Analysis Batch: 734443

Client Sample ID: VER_004_MS
 Prep Type: Total/NA
 Prep Batch: 734254

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000945		mg/L		95	75 - 125

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

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

Lab Sample ID: 500-239823-9 MSD
Matrix: Water
Analysis Batch: 734443

Client Sample ID: VER_004_MSD
Prep Type: Total/NA
Prep Batch: 734254

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	7	20

Lab Sample ID: 500-239823-9 DU
Matrix: Water
Analysis Batch: 734443

Client Sample ID: VER_004
Prep Type: Total/NA
Prep Batch: 734254

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 500-734449/12-A
Matrix: Water
Analysis Batch: 734668

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 734449

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		09/28/23 10:25	09/29/23 08:17	1

Lab Sample ID: LCS 500-734449/13-A
Matrix: Water
Analysis Batch: 734668

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 734449

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00189		mg/L		94	80 - 120

Lab Sample ID: 500-239823-30 MS
Matrix: Water
Analysis Batch: 734668

Client Sample ID: VER_101&
Prep Type: Total/NA
Prep Batch: 734449

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.00100	0.000998		mg/L		100	75 - 125

Lab Sample ID: 500-239823-30 MSD
Matrix: Water
Analysis Batch: 734668

Client Sample ID: VER_101&
Prep Type: Total/NA
Prep Batch: 734449

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	1	20

Lab Sample ID: 500-239823-30 DU
Matrix: Water
Analysis Batch: 734668

Client Sample ID: VER_101&
Prep Type: Total/NA
Prep Batch: 734449

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

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-734440/44
Matrix: Water
Analysis Batch: 734440

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			09/28/23 22:24	1
Fluoride	<1.0		1.0	0.19	mg/L			09/28/23 22:24	1
Sulfate	<1.0		1.0	0.21	mg/L			09/28/23 22:24	1

Lab Sample ID: LCS 500-734440/45
Matrix: Water
Analysis Batch: 734440

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	19.0		mg/L		95	90 - 110
Fluoride	20.0	18.2		mg/L		91	90 - 110
Sulfate	20.0	20.7		mg/L		104	90 - 110

Lab Sample ID: 500-239823-9 MS
Matrix: Water
Analysis Batch: 734440

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
Chloride	9.4		10.0	18.7		mg/L		93	80 - 120
Fluoride	0.39	J	10.0	8.70		mg/L		83	80 - 120
Sulfate	21		10.0	31.2		mg/L		98	80 - 120

Lab Sample ID: 500-239823-9 MSD
Matrix: Water
Analysis Batch: 734440

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
Chloride	9.4		10.0	18.6		mg/L		92	80 - 120	1	20
Fluoride	0.39	J	10.0	8.67		mg/L		83	80 - 120	0	20
Sulfate	21		10.0	30.9		mg/L		96	80 - 120	1	20

Lab Sample ID: MB 500-734790/3
Matrix: Water
Analysis Batch: 734790

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<1.0		1.0	0.19	mg/L			10/01/23 14:21	1
Sulfate	<1.0		1.0	0.21	mg/L			10/01/23 14:21	1

Lab Sample ID: LCS 500-734790/4
Matrix: Water
Analysis Batch: 734790

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	20.0	18.7		mg/L		94	90 - 110
Sulfate	20.0	21.0		mg/L		105	90 - 110

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-734951/3
 Matrix: Water
 Analysis Batch: 734951

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			10/02/23 12:44	1
Fluoride	<1.0		1.0	0.19	mg/L			10/02/23 12:44	1
Sulfate	<1.0		1.0	0.21	mg/L			10/02/23 12:44	1

Lab Sample ID: MB 500-734951/45
 Matrix: Water
 Analysis Batch: 734951

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			10/02/23 23:40	1
Fluoride	<1.0		1.0	0.19	mg/L			10/02/23 23:40	1
Sulfate	<1.0		1.0	0.21	mg/L			10/02/23 23:40	1

Lab Sample ID: LCS 500-734951/4
 Matrix: Water
 Analysis Batch: 734951

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	18.8		mg/L		94	90 - 110
Fluoride	20.0	18.6		mg/L		93	90 - 110
Sulfate	20.0	20.9		mg/L		105	90 - 110

Lab Sample ID: LCS 500-734951/46
 Matrix: Water
 Analysis Batch: 734951

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	19.0		mg/L		95	90 - 110
Fluoride	20.0	18.8		mg/L		94	90 - 110
Sulfate	20.0	21.1		mg/L		105	90 - 110

Lab Sample ID: MB 500-735148/11
 Matrix: Water
 Analysis Batch: 735148

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.140	J	1.0	0.12	mg/L			10/03/23 16:06	1

Lab Sample ID: MB 500-735148/42
 Matrix: Water
 Analysis Batch: 735148

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.126	J	1.0	0.12	mg/L			10/03/23 23:56	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-735148/12
 Matrix: Water
 Analysis Batch: 735148

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	19.0		mg/L		95	90 - 110

Lab Sample ID: LCS 500-735148/43
 Matrix: Water
 Analysis Batch: 735148

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	19.2		mg/L		96	90 - 110

Lab Sample ID: MB 500-735574/3
 Matrix: Water
 Analysis Batch: 735574

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			10/05/23 14:09	1
Fluoride	<1.0		1.0	0.19	mg/L			10/05/23 14:09	1
Sulfate	<1.0		1.0	0.21	mg/L			10/05/23 14:09	1

Lab Sample ID: LCS 500-735574/4
 Matrix: Water
 Analysis Batch: 735574

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	19.3		mg/L		96	90 - 110
Fluoride	20.0	19.3		mg/L		97	90 - 110
Sulfate	20.0	20.1		mg/L		101	90 - 110

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

Lab Sample ID: MB 500-733484/1
 Matrix: Water
 Analysis Batch: 733484

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			09/21/23 21:18	1

Lab Sample ID: LCS 500-733484/2
 Matrix: Water
 Analysis Batch: 733484

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	238		mg/L		95	80 - 120

Lab Sample ID: 500-239823-9 MS
 Matrix: Water
 Analysis Batch: 733484

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	330		250	580		mg/L		99	75 - 125

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

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

Lab Sample ID: 500-239823-9 MSD
Matrix: Water
Analysis Batch: 733484

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	330		250	566		mg/L		94	75 - 125	2	20

Lab Sample ID: 500-239823-8 DU
Matrix: Water
Analysis Batch: 733484

Client Sample ID: VER_002DUP
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	540		560		mg/L		3	5

Lab Sample ID: MB 500-733938/1
Matrix: Water
Analysis Batch: 733938

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			09/25/23 19:31	1

Lab Sample ID: LCS 500-733938/2
Matrix: Water
Analysis Batch: 733938

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 500-733939/1
Matrix: Water
Analysis Batch: 733939

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			09/25/23 21:08	1

Lab Sample ID: LCS 500-733939/2
Matrix: Water
Analysis Batch: 733939

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	264		mg/L		106	80 - 120

Lab Sample ID: MB 500-734131/1
Matrix: Water
Analysis Batch: 734131

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			09/26/23 22:26	1

Lab Sample ID: LCS 500-734131/2
Matrix: Water
Analysis Batch: 734131

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	272		mg/L		109	80 - 120

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-5
 SDG: VER_845_910-911

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

Lab Sample ID: MB 500-734349/1
 Matrix: Water
 Analysis Batch: 734349

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			09/27/23 23:38	1

Lab Sample ID: LCS 500-734349/2
 Matrix: Water
 Analysis Batch: 734349

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	256		mg/L		102	80 - 120

Lab Sample ID: 500-239823-22 MS
 Matrix: Water
 Analysis Batch: 734349

Client Sample ID: VER_040
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5000		625	5810	4	mg/L		127	75 - 125

Lab Sample ID: 500-239823-22 DU
 Matrix: Water
 Analysis Batch: 734349

Client Sample ID: VER_040
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	5000			4970		mg/L		1	5

Lab Sample ID: MB 500-734546/1
 Matrix: Water
 Analysis Batch: 734546

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			09/29/23 02:31	1

Lab Sample ID: LCS 500-734546/2
 Matrix: Water
 Analysis Batch: 734546

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	238		mg/L		95	80 - 120

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Client Sample ID: VER_002

Date Collected: 09/20/23 14:11

Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 12:38
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 21:50
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736513	BJH	EET CHI	10/11/23 12:04
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 15:37
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 07:57
Total/NA	Analysis	300.0		2	734440	NMB	EET CHI	09/29/23 02:27
Total/NA	Analysis	300.0		1	734790	EH	EET CHI	10/01/23 17:45
Total/NA	Analysis	SM 2540C		1	733484	CLB	EET CHI	09/21/23 21:23
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/20/23 14:11

Client Sample ID: VER_002DUP

Date Collected: 09/20/23 14:20

Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 12:42
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 21:59
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736513	BJH	EET CHI	10/11/23 12:08
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 15:41
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 07:59
Total/NA	Analysis	300.0		2	734440	NMB	EET CHI	09/29/23 03:27
Total/NA	Analysis	300.0		1	734790	EH	EET CHI	10/01/23 18:00
Total/NA	Analysis	SM 2540C		1	733484	CLB	EET CHI	09/21/23 21:25
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/20/23 14:20

Client Sample ID: VER_004

Date Collected: 09/20/23 14:50

Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 12:47
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 22:03

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_004
Date Collected: 09/20/23 14:50
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		5	736513	BJH	EET CHI	10/11/23 12:16
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		5	736570	BJH	EET CHI	10/11/23 15:45
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:02
Total/NA	Analysis	300.0		1	734440	NMB	EET CHI	09/29/23 03:43
Total/NA	Analysis	SM 2540C		1	733484	CLB	EET CHI	09/21/23 21:31
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/20/23 14:50

Client Sample ID: VER_021
Date Collected: 09/20/23 10:20
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 13:15
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 22:25
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736513	BJH	EET CHI	10/11/23 12:54
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 16:14
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:10
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 17:25
Total/NA	Analysis	SM 2540C		1	733484	CLB	EET CHI	09/21/23 21:39
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/20/23 10:20

Client Sample ID: VER_036
Date Collected: 09/20/23 10:47
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 13:20
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 22:29
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		10	736513	BJH	EET CHI	10/11/23 12:58
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		10	736570	BJH	EET CHI	10/11/23 16:18
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:16

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_036

Lab Sample ID: 500-239823-11

Date Collected: 09/20/23 10:47

Matrix: Water

Date Received: 09/21/23 11:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 17:41
Total/NA	Analysis	300.0		100	734951	W1T	EET CHI	10/02/23 17:57
Total/NA	Analysis	SM 2540C		1	733484	CLB	EET CHI	09/21/23 21:41
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/20/23 10:47

Client Sample ID: VER_037

Lab Sample ID: 500-239823-12

Date Collected: 09/20/23 12:31

Matrix: Water

Date Received: 09/21/23 11:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 13:24
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 22:34
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736513	BJH	EET CHI	10/11/23 13:01
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 16:32
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:18
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 18:12
Total/NA	Analysis	300.0		20	734951	W1T	EET CHI	10/02/23 18:59
Total/NA	Analysis	SM 2540C		1	733484	CLB	EET CHI	09/21/23 21:44
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/20/23 12:31

Client Sample ID: VER_041

Lab Sample ID: 500-239823-13

Date Collected: 09/20/23 12:35

Matrix: Water

Date Received: 09/21/23 11:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 13:28
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 22:38
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736513	BJH	EET CHI	10/11/23 13:05
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 16:36
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:21
Total/NA	Analysis	300.0		2	735148	EH	EET CHI	10/04/23 06:31
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 19:15
Total/NA	Analysis	SM 2540C		1	733484	CLB	EET CHI	09/21/23 21:47
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/20/23 12:35

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_003R
Date Collected: 09/21/23 08:50
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 13:32
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 22:51
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		10	736513	BJH	EET CHI	10/11/23 13:09
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		10	736570	BJH	EET CHI	10/11/23 16:40
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:23
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 19:30
Total/NA	Analysis	300.0		50	734951	W1T	EET CHI	10/02/23 19:46
Total/NA	Analysis	SM 2540C		1	733938	CLB	EET CHI	09/25/23 20:27
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 08:50

Client Sample ID: VER_005
Date Collected: 09/21/23 10:51
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 13:37
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 22:55
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		10	736513	BJH	EET CHI	10/11/23 13:13
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		10	736570	BJH	EET CHI	10/11/23 16:45
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:25
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 20:02
Total/NA	Analysis	300.0		10	734951	W1T	EET CHI	10/02/23 20:17
Total/NA	Analysis	SM 2540C		1	733938	CLB	EET CHI	09/25/23 20:30
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 10:51

Client Sample ID: VER_008R
Date Collected: 09/21/23 09:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 13:41
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:00

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Client Sample ID: VER_008R

Date Collected: 09/21/23 09:30

Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		10	736513	BJH	EET CHI	10/11/23 13:20
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		10	736570	BJH	EET CHI	10/11/23 16:51
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:27
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 20:33
Total/NA	Analysis	300.0		50	734951	W1T	EET CHI	10/02/23 20:48
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:13
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 09:30

Client Sample ID: VER_017

Date Collected: 09/21/23 08:51

Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 13:58
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:08
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 17:00
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736638	BJH	EET CHI	10/11/23 21:08
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:31
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 22:07
Total/NA	Analysis	300.0		100	734951	W1T	EET CHI	10/02/23 22:22
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:18
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 08:51

Client Sample ID: VER_020

Date Collected: 09/21/23 13:07

Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 14:02
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:13
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 17:04
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736638	BJH	EET CHI	10/11/23 21:12

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Lab Chronicle

Client Sample ID: VER_020
Date Collected: 09/21/23 13:07
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:33
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 22:38
Total/NA	Analysis	300.0		5	734951	W1T	EET CHI	10/02/23 22:53
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:20
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 13:07

Client Sample ID: VER_034
Date Collected: 09/21/23 14:46
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 14:06
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:17
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 17:29
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736638	BJH	EET CHI	10/11/23 21:15
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:35
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 23:09
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:23
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 14:46

Client Sample ID: VER_038
Date Collected: 09/21/23 15:45
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 14:10
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:21
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 17:33
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736638	BJH	EET CHI	10/11/23 21:19
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:42
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/02/23 23:25
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:26
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 15:45

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_040
Date Collected: 09/21/23 14:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 14:15
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:26
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		10	736570	BJH	EET CHI	10/11/23 17:42
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736638	BJH	EET CHI	10/11/23 21:22
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:44
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/03/23 00:12
Total/NA	Analysis	300.0		200	734951	W1T	EET CHI	10/03/23 00:27
Total/NA	Analysis	SM 2540C		1	734349	CLB	EET CHI	09/27/23 23:43
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 14:30

Client Sample ID: VER_042
Date Collected: 09/21/23 13:35
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 14:19
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:30
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 17:46
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736638	BJH	EET CHI	10/11/23 21:26
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:46
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/03/23 01:14
Total/NA	Analysis	300.0		10	734951	W1T	EET CHI	10/03/23 01:30
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:31
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 13:35

Client Sample ID: VER_043
Date Collected: 09/21/23 14:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 14:23
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:43

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_043
Date Collected: 09/21/23 14:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 17:50
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736638	BJH	EET CHI	10/11/23 21:29
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:48
Total/NA	Analysis	300.0		5	735148	EH	EET CHI	10/04/23 07:16
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/03/23 01:45
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:33
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/21/23 14:30

Client Sample ID: VER_EB-01
Date Collected: 09/21/23 08:40
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 14:28
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:47
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 17:54
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736638	BJH	EET CHI	10/11/23 21:33
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:50
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/03/23 02:01
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:36

Client Sample ID: VER_EB-02
Date Collected: 09/22/23 07:30
Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			733782	BDE	EET CHI	09/25/23 09:01 - 09/25/23 09:31 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	734631	RN	EET CHI	09/28/23 14:32
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736355	BJH	EET CHI	10/10/23 23:52
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736570	BJH	EET CHI	10/11/23 18:13
Total Recoverable	Prep	3005A			734233	BDE	EET CHI	09/27/23 09:34 - 09/27/23 10:04 ¹
Total Recoverable	Analysis	6020B		1	736638	BJH	EET CHI	10/11/23 21:36
Total/NA	Prep	7470A			734254	MJG	EET CHI	09/27/23 10:55 - 09/27/23 12:55 ¹
Total/NA	Analysis	7470A		1	734443	MJG	EET CHI	09/28/23 08:52

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_EB-02

Date Collected: 09/22/23 07:30

Date Received: 09/22/23 14:10

Lab Sample ID: 500-239823-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/03/23 02:17
Total/NA	Analysis	SM 2540C		1	733939	CLB	EET CHI	09/25/23 21:39

Client Sample ID: VER_FB/EB-1

Date Collected: 09/25/23 18:00

Date Received: 09/26/23 11:13

Lab Sample ID: 500-239823-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			734230	BDE	EET CHI	09/27/23 09:25 - 09/27/23 09:55 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	736686	RN	EET CHI	10/11/23 16:48
Total Recoverable	Prep	3005A			734405	BDE	EET CHI	09/28/23 08:31 - 09/28/23 09:01 ¹
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/12/23 01:03
Total/NA	Prep	7470A			734449	MJG	EET CHI	09/28/23 10:25 - 09/28/23 12:25 ¹
Total/NA	Analysis	7470A		1	734668	MJG	EET CHI	09/29/23 08:25
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/03/23 03:35
Total/NA	Analysis	SM 2540C		1	734131	CLB	EET CHI	09/26/23 22:36

Client Sample ID: VER_101&

Date Collected: 09/25/23 16:12

Date Received: 09/26/23 11:13

Lab Sample ID: 500-239823-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			734230	BDE	EET CHI	09/27/23 09:25 - 09/27/23 09:55 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	736686	RN	EET CHI	10/11/23 17:08
Total Recoverable	Prep	3005A			734405	BDE	EET CHI	09/28/23 08:31 - 09/28/23 09:01 ¹
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/12/23 01:11
Total/NA	Prep	7470A			734449	MJG	EET CHI	09/28/23 10:25 - 09/28/23 12:25 ¹
Total/NA	Analysis	7470A		1	734668	MJG	EET CHI	09/29/23 08:27
Total/NA	Analysis	300.0		1	734951	W1T	EET CHI	10/03/23 04:22
Total/NA	Analysis	SM 2540C		1	734131	CLB	EET CHI	09/26/23 22:38
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/25/23 16:12

Client Sample ID: VER_103&

Date Collected: 09/26/23 10:43

Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			734408	BDE	EET CHI	09/28/23 08:37 - 09/28/23 09:07 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	735077	RN	EET CHI	10/02/23 16:28
Total Recoverable	Prep	3005A			734405	BDE	EET CHI	09/28/23 08:31 - 09/28/23 09:01 ¹
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/12/23 01:19
Total/NA	Prep	7470A			734449	MJG	EET CHI	09/28/23 10:25 - 09/28/23 12:25 ¹
Total/NA	Analysis	7470A		1	734668	MJG	EET CHI	09/29/23 09:04
Total/NA	Analysis	300.0		1	735574	NMB	EET CHI	10/05/23 17:56

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_103&
Date Collected: 09/26/23 10:43
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		200	735574	NMB	EET CHI	10/05/23 18:11
Total/NA	Analysis	SM 2540C		1	734546	CLB	EET CHI	09/29/23 03:04
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/26/23 10:43

Client Sample ID: VER_EB-1
Date Collected: 09/26/23 17:00
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			734408	BDE	EET CHI	09/28/23 08:37 - 09/28/23 09:07 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	735077	RN	EET CHI	10/02/23 16:45
Total Recoverable	Prep	3005A			734405	BDE	EET CHI	09/28/23 08:31 - 09/28/23 09:01 ¹
Total Recoverable	Analysis	6020B		1	736629	BJH	EET CHI	10/12/23 01:43
Total Recoverable	Prep	3005A			734405	BDE	EET CHI	09/28/23 08:31 - 09/28/23 09:01 ¹
Total Recoverable	Analysis	6020B		1	737762	BJH	EET CHI	10/18/23 17:57
Total/NA	Prep	7470A			734449	MJG	EET CHI	09/28/23 10:25 - 09/28/23 12:25 ¹
Total/NA	Analysis	7470A		1	734668	MJG	EET CHI	09/29/23 09:08
Total/NA	Analysis	300.0		1	735574	NMB	EET CHI	10/05/23 18:57
Total/NA	Analysis	SM 2540C		1	734546	CLB	EET CHI	09/29/23 03:09

Client Sample ID: VER_007R
Date Collected: 09/18/23 13:17
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	737033	DN	EET CHI	09/18/23 13:17

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

ATTACHEMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
Accreditation/Certification Summary
 VERMILION POWER PLANT, NORTH ASH POND (NAP) and OLD EAST ASH POND (OEAP)

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

VER-845-910-911

Job ID: 500-239823-5
 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

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500-239823 COC

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
VERMILION POWER PLANT, NORTH ASH POND (NAP) and OLD EAST ASH POND (OEP)
VER-845-910-911

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information: Company: Vistra Corp/A3, Address: 3030 Warrenville Rd, Ste 418, Lisle, IL 60532... Section B Required Project Information: Report To: Brian Voelker, Copy To: Jason Stuckey... Section C Invoice Information: Attention: Jason Stuckey, Company Name: Vistra Corp... REGULATORY AGENCY: NPDES GROUND WATER DRINKING WATER, UST RCRA OTHER, Site Location IL, STATE: IL

Main data table with columns for ITEM #, SAMPLE ID, DATE, TIME, COLLECTED, PRESERVATIVES (Unpreserved, H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other), ANALYSIS TEST (VER-845-910-911, VER-845-912, VER-NPDES-912, VER-SUP-000), Residual Chlorine (Y/N), Project No./ Lab I.D. (SHORT HOLDS-NO2)

Summary row with columns: ADDITIONAL COMMENTS (HEN-23Q3 Rev 0), RELINQUISHED BY / AFFILIATION (Signature), DATE, TIME, ACCEPTED BY / AFFILIATION (Signature), DATE, TIME, SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Hanna Tabone, SIGNATURE of SAMPLER: (Signature), DATE Signed (MM/DD/YYYY): 09/20/2023, Temp in °C, Received on Ice (Y/N), Custody Sealed Cooler (Y/N), Samples Intact (Y/N)

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 3030 Warrenville Rd, Ste 418		Copy To: Jason Stuckey		Company Name: Vistra Corp	
Lisle, IL 60532				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: 50021987		Profile #:	
REGULATORY AGENCY					
		NPDES		GROUND WATER	
		UST		RCRA	
				DRINKING WATER	
				OTHER	
Site Location				STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)	Project No./ Lab I.D.			
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	↓ Analysis Test ↑	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000					
1	VER_004_MS/MSD	WT G	9/20/23	14:50		42	X	X	X							X								SHORT HOLDS-NO2
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3																								
4																								
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
HEN-23Q3 Rev 0	<i>[Signature]</i>	9/21/23	11:13	<i>[Signature]</i>	9/21/23	0923							
SAMPLER NAME AND SIGNATURE							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)			
PRINT Name of SAMPLER: Steven Kijckolk													
SIGNATURE of SAMPLER: <i>[Signature]</i>				DATE Signed (MM/DD/YY): 09/20/23									

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500-239823

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:		Page: 1 of 1	
Company: <u>Vistra Corp/A3</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		REGULATORY AGENCY	
Address: <u>3030 Warrenville Rd, Ste 418</u> <u>Lisle, IL 60532</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>			
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>		UST RCRA OTHER	Site Location
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE: <u>IL</u>	
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>50021987</u>		Project Manager:		Requested Analysis Filtered (Y/N)	
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>50021987</u>		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Y/N	Residual Chlorine (Y/N)	Project No./ Lab I.D.		
						DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					VER-845-910-911	VER-845-912
1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS																				
1	VER_036			MTG		9/20/23	1047		14	X	X					X							
2																							
3																							
4																							
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	<i>[Signature]</i>	9/20/23	1117	<i>[Signature]</i>	9/20/23	0923	
				<i>[Signature]</i>	9/20/23	1113	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Alanna Tabara</i>				
SIGNATURE of SAMPLER:	<i>Alanna Tabara</i>	DATE Signed (MM/DD/YY):	09/20/2023		

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	REGULATORY AGENCY		
Company: Vistra Corp/A3	Report To: Brian Voelker	Attention: Jason Stuckey	NPDES GROUND WATER DRINKING WATER		
Address: 3030 Warrentville Rd, Ste 418 Lisle, IL 60532	Copy To: Jason Stuckey	Company Name: Vistra Corp	UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	Site Location	IL	
Phone: (217) 753-8911 Fax:	Project Name:	Quote Reference:	STATE:		
Requested Due Date/TAT: 10 day	Project Number: 50021987	Project Manager:			
		Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)								Residual Chlorine (Y/N)	Project No./ Lab I.D.
		MATRIX	CODE			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000						
1	VER_037			WTG		9/20/23	1231		14	X	X	X						X			X							SHORT HOLDS-NO2
2																												
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	<i>[Signature]</i>	9/20/23	1113	<i>[Signature]</i>	9/20/23	0923	
					9/20/23	1113	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed/Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Alanna Sabare				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YYYY):		09/20/2023	

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 3030 Warrenville Rd, Ste 418		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Lisle, IL 60532				Address: see Section A		Site Location		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE: IL		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:				
Requested Due Date/TAT: 10 day		Project Number: 50021987		Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.
							Preservatives											
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	VER-845-910-911		
1	VER_041		9/20/23	12:35		14	X	X	X	X	X	X	X	X	X	X	X	SHORT HOLDS-NO2
2																		
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	<i>[Signature]</i>	9/20/23		<i>[Signature]</i>	9/20/23	0923	
SAMPLER NAME AND SIGNATURE				DATE Signed (MM/DD/YYYY)		Temp in °C	Received on Ice (Y/N)
PRINT Name of SAMPLER: STEVEN KIKKEDT				09/20/23			
SIGNATURE of SAMPLER: <i>[Signature]</i>							

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 11/16/23

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information: Company: Vistra Corp/A3 Address: 3030 Warrenville Rd, Ste 418 Lisle, IL 60532 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: Jason Stuckey Purchase Order No.: Project Name: Project Number: 50021987		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: IL STATE:		
---	--	---	--	---	--	--	--	--

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Project No./ Lab I.D.
								Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	VER-845-910-911	VER-845-912		
1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	DRINKING WATER DW WASTE WATER WT PRODUCT P SOL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	9/21/23	15:45			4	X	X	X	X	X	X	X	X	X	X	SHORT HOLDS-NO2		
2																				
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ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
HEN-23Q3 Rev 0		<i>[Signature]</i>		9/22/23	1109	<i>[Signature]</i>		9/22/23	0914				
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Stavian Kretz					SIGNATURE of SAMPLER: <i>[Signature]</i>								

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 3030 Warrenville Rd, Ste 418 Lisle, IL 60532		Copy To: Jason Stuckey		Company Name: Vistra Corp	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:	
Requested Due Date/TAT: 10 day		Project Number: 50021987		Project Manager:	
				Profile #:	
REGULATORY AGENCY					
NPDES			GROUND WATER		DRINKING WATER
UST			RCRA		OTHER
Site Location		STATE: IL			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE		COLLECTED		SAMPLE TEMP AT COLLECTION	Preservatives										Analysis Test	Residual Chlorine (Y/N)	Project No./ Lab I.D.					
		MATRIX	CODE	DATE	TIME		Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Y/N									
1	VER_043	WT	G	9/21/23	14:30	14	X	X	X						X								SHORT HOLDS-NO2	
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	<i>Stevan Krickert</i>	9/22/23	1109	<i>Jason Stuckey</i>	9/22/23	0914	
SAMPLER NAME AND SIGNATURE							Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
PRINT Name of SAMPLER: Steven Krickert							
SIGNATURE of SAMPLER: <i>Stevan Krickert</i>							

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: <u>Vistra Corp/A3</u> Address: <u>3030 Warrenville Rd, Ste 418</u> <u>Lisle, IL 60532</u> Email To: <u>Brian.Voelker@VistraCorp.com</u> Phone: (217) 753-8911 Fax: Requested Due Date/TAT: <u>10 day</u>		Section B Required Project Information: Report To: <u>Brian Voelker</u> Copy To: <u>Jason Stuckey</u> Purchase Order No.: Project Name: Project Number: <u>50021987</u>		Section C Invoice Information: Attention: <u>Jason Stuckey</u> Company Name: <u>Vistra Corp</u> Address: <u>see Section A</u> Quote Reference: Project Manager: Profile #:			REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:		
--	--	--	--	--	--	--	---	--	--

ITEM #	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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				
25	VER-845-910-911 20-01				9/21/23	0840										X	X		SHORT HOLDS-NO2	
1																				
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4																				
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS											
HEN-23Q3 Rev 0	<i>Matt Boerley</i>	9/22/23	1109	<i>Jason Stuckey</i>	9/22/23	0900												
SAMPLER NAME AND SIGNATURE											Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)				
PRINT Name of SAMPLER: <u>Matt Boerley</u>																		
SIGNATURE of SAMPLER: <i>Matt Boerley</i>											DATE Signed (MM/DD/YYYY): <u>9/22/23</u>							

500-239823

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:		REGULATORY AGENCY		
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 3030 Warrenville Rd, Ste 418 Lisle, IL 60532		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 50021987		Project Manager:				
				Profile #:				

30

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test (Y/N)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.				
								Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	VER-845-910-911	VER-845-912					VER-NPDES-912	VER-SUP-000		
1	VER_101& Sample IDs MUST BE UNIQUE		GW G		09/25/23 1612		14 2 8 4											X	X						
2																									
3																									
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				
HEN-23Q3 Rev 0	<i>Lauren Anderson</i>	9/26/23	0815	<i>P. J. Ellis</i>	9/26/23	0900					
	<i>P. J. Ellis</i>	9/26/23	1103	<i>Jason Stuckey</i>	9/26/23	1113					

SAMPLER NAME AND SIGNATURE		Temp. in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Lauren Anderson					
SIGNATURE of SAMPLER: <i>Lauren Anderson</i>	DATE Signed (MM/DD/YYYY): 09/26/23				

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Ramboll		Report To: Brian Voelker		Attention: Jason Stuckey		Company Name: Vistra Corp		
Address:		Copy To: Jason Stuckey		Company Name: Vistra Corp		Address: see Section A		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		UST RCRA OTHER		
Requested Due Date/TAT: 10 day		Project Number: 50021987		Profile #:		Site Location		
						STATE: IL		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				
1	LEA-VER-835&DEB-EB-1	DI G	9/26/23	1700		14	2	4									
2	LEA 9/26/23																
3	[Large diagonal line across rows 3-16]																
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
HEN-23Q3 Rev 0	[Signature]	9/26/23	0900	[Signature]	9/26/23	0900	
	[Signature]	9/27/23	0915	[Signature]	9/27/23	0915	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Larmer Anderson				
SIGNATURE of SAMPLER:	[Signature]	DATE Signed (MM/DD/YYYY):	9/26/23		
	[Signature]	9/27/23	1131		
	[Signature]	9/27/23	1131		

Client: Vistra Energy Corp

Job Number: 500-239823-5
 SDG Number: VER_845_910-911

Login Number: 239823
List Number: 1
Creator: Scott, Sherri L

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	2.6,0.4,2.7,2.5,2.4,2.2,0.8,1.6,2.4,1.5,1.8,1.6,4.6,3.3,5.3,5.1,1.3
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 Power Station Client: Vistra Energy
 Project Number: 1940103649 Task #: _____ Start Date: September 18, 2023 Time: 14:18
 Field Personnel: Kikkert/Bartley/Tabares Finish Date: September 18, 2023 Time: _____

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>ND3</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: _____
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below) _____	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: _____

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)				
LNAPL					Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
Groundwater	<u>Dry</u>	<u>14:18</u>			Volume Per Foot: _____			
DNAPL					Standing Water Column: _____ feet			
Casing Base					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
					Total Volumes Produced: _____ Gallons			
					Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Water Level Serial #: _____ Solinst Water Quality Probe Type and Serial # _____ AquaTroll 600

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial		NA		NA							
purge											

NOTES **ABBREVIATIONS**

Initial/Potentiometric WL: Dry Date: 9/18/23 Time: 14:18
 Well dry. No sample collected.

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential
 FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance
 na - Not Applicable SU - Standard Units
 nm - Not Measured Temp - Temperature
 °C - Degrees Celcius



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION			
Site: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 18, 2023</u>	Time: <u>14:18</u>
Field Personnel: <u>Kikkert/Bartley/Tabares</u>		Finish Date: <u>September 18, 2023</u>	Time: _____

WELL INFORMATION	EVENT TYPE
Well ID: <u>ND3</u>	<input type="checkbox"/> Well Development
Casing ID: _____ inches	<input type="checkbox"/> Well Volume Approach Sampling
	<input type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity

NOTES (continued)	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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 26, 2023</u>				Time: <u>13:21</u>	
Field Personnel: <u>Anderson/Tabares</u>						Finish Date: <u>September 26, 2023</u>				Time: <u>13:36</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>NED-1</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Peristaltic Pump</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: <u>200 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>5.21</u>	<u>13:21</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #887121</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>initial</u>	<u>13:21</u>	<u>NA</u>	<u>5.21</u>	<u>NA</u>	<u>23.79</u>	<u>1614</u>	<u>2.56</u>	<u>7.49</u>	<u>305.79</u>	<u>-109.5</u>	<u>clear</u>
<u>purge</u>	<u>13:27</u>	<u>NA</u>	<u>5.21</u>	<u>NA</u>	<u>19.86</u>	<u>1705.5</u>	<u>0.33</u>	<u>7.45</u>	<u>125.55</u>	<u>-151.3</u>	<u>clear</u>
<u>purge</u>	<u>13:30</u>	<u>NA</u>	<u>5.21</u>	<u>NA</u>	<u>19.86</u>	<u>1751.8</u>	<u>0.31</u>	<u>7.55</u>	<u>95.98</u>	<u>-163.1</u>	<u>clear</u>
<u>purge</u>	<u>13:33</u>	<u>NA</u>	<u>5.24</u>	<u>NA</u>	<u>19.86</u>	<u>1759.7</u>	<u>0.27</u>	<u>7.58</u>	<u>87.18</u>	<u>-174.3</u>	<u>clear</u>
<u>sample</u>	<u>13:36</u>	<u>NA</u>	<u>5.3</u>	<u>NA</u>	<u>20.28</u>	<u>1772.1</u>	<u>0.24</u>	<u>7.58</u>	<u>77.98</u>	<u>-181.2</u>	<u>clear</u>
Stabilized at 13:36. Sampled at 13:36											
NOTES								ABBREVIATIONS			
Initial/Potentiometric WL: <u>5.21</u> Date: <u>9/26/23</u> Time: <u>13:21</u>								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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 26, 2023</u>			Time: <u>13:21</u>		
Field Personnel: <u>Anderson/Tabares</u>						Finish Date: <u>September 26, 2023</u>			Time: <u>13:36</u>		
WELL INFORMATION				EVENT TYPE							
Well ID: <u>NED-1</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
NOTES (continued)								ABBREVIATIONS			
								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius			

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>						
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 18, 2023</u>				Time: <u>14:25</u>		
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 18, 2023</u>				Time: _____		
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION						
Well ID: <u>OED1</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Pump						
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>						
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: _____						
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____						
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: _____						
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION							
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole						
		Depth	Time	Depth	Time	Volume Per Foot: _____						
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet						
<u>LNAPL</u>						1 Well Volume: _____ Gallons		3 Well Volumes: _____ Gallons				
<u>Groundwater</u>		<u>Dry</u>	<u>14:25</u>			5 Well Volumes: _____ Gallons		10 Well Volumes: _____ Gallons				
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons						
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # _____ AquaTroll 600							
WATER QUALITY INDICATOR PARAMETERS												
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity	
<u>initial</u>		<u>NA</u>		<u>NA</u>								
<u>purge</u>												
NOTES										ABBREVIATIONS		
Initial/Potentiometric WL: <u>Dry</u> Date: <u>9/18/23</u> Time: <u>14:25</u> Well dry. No sample collected.										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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 18, 2023</u>	Time: <u>14:25</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 18, 2023</u>	Time: _____

WELL INFORMATION	EVENT TYPE
Well ID: <u>OED1</u>	<input type="checkbox"/> Well Development
Casing ID: _____ inches	<input type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling
	<input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity

NOTES (continued)	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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 20, 2023</u>				Time: <u>13:53</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 20, 2023</u>				Time: <u>14:11</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-002</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 / FA04650</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: <u>300 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>19.50</u>	<u>13:53</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #887121</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>initial</u>	<u>13:53</u>	<u>NA</u>	<u>19.5</u>	<u>NA</u>	<u>15.97</u>	<u>797.24</u>	<u>0.23</u>	<u>7.46</u>	<u>9.23</u>	<u>-77.3</u>	<u>Clear</u>
<u>purge</u>	<u>13:56</u>	<u>NA</u>	<u>19.5</u>	<u>NA</u>	<u>15.92</u>	<u>819.45</u>	<u>0.21</u>	<u>7.49</u>	<u>2.3</u>	<u>-106.1</u>	<u>Clear</u>
<u>purge</u>	<u>13:59</u>	<u>NA</u>	<u>19.5</u>	<u>NA</u>	<u>15.67</u>	<u>810.39</u>	<u>0.15</u>	<u>7.55</u>	<u>9.26</u>	<u>-121.2</u>	<u>Clear</u>
<u>purge</u>	<u>14:02</u>	<u>NA</u>	<u>19.5</u>	<u>NA</u>	<u>15.58</u>	<u>813.02</u>	<u>0.13</u>	<u>7.56</u>	<u>7.99</u>	<u>-130.9</u>	<u>Clear</u>
<u>purge</u>	<u>14:05</u>	<u>NA</u>	<u>19.5</u>	<u>NA</u>	<u>15.51</u>	<u>794.09</u>	<u>0.12</u>	<u>7.57</u>	<u>5.7</u>	<u>-137.7</u>	<u>Clear</u>
<u>purge</u>	<u>14:08</u>	<u>NA</u>	<u>19.5</u>	<u>NA</u>	<u>15.41</u>	<u>792.24</u>	<u>0.11</u>	<u>7.58</u>	<u>5.98</u>	<u>-143.1</u>	<u>Clear</u>
<u>purge</u>	<u>14:11</u>	<u>NA</u>	<u>19.5</u>	<u>NA</u>	<u>15.25</u>	<u>780.39</u>	<u>0.09</u>	<u>7.58</u>	<u>7.24</u>	<u>-147.5</u>	<u>Clear</u>
Stabilized at 14:11. Sampled at 14:11											
NOTES						ABBREVIATIONS					
<u>Initial/Potentiometric WL: 19.50 Date: 9/20/2023 Time: 13:53</u>						Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius					



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION			
Site: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 20, 2023</u>	Time: <u>13:53</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 20, 2023</u>	Time: <u>14:11</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-002</u>	<input type="checkbox"/> Well Development
Casing ID: _____ inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity

NOTES (continued)	ABBREVIATIONS										
Duplicate sample collected @ 14:20. Ferrous Iron reading = underrange	<table style="width:100%; font-size: small;"> <tr> <td>Cond. - Actual Conductivity</td> <td>ORP - Oxidation-Reduction Potential</td> </tr> <tr> <td>FT BTOC - Feet Below Top of Casing</td> <td>SEC - Specific Electrical Conductance</td> </tr> <tr> <td>na - Not Applicable</td> <td>SU - Standard Units</td> </tr> <tr> <td>nm - Not Measured</td> <td>Temp - Temperature</td> </tr> <tr> <td></td> <td>°C - Degrees Celcius</td> </tr> </table>	Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential	FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance	na - Not Applicable	SU - Standard Units	nm - Not Measured	Temp - Temperature		°C - Degrees Celcius
Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential										
FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance										
na - Not Applicable	SU - Standard Units										
nm - Not Measured	Temp - Temperature										
	°C - Degrees Celcius										



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>				Time: <u>8:40</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>				Time: <u>8:50</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-003R</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA05081</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: _____					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>9.04</u>	<u>8:40</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #867305</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>initial</u>	<u>8:40</u>	<u>NA</u>	<u>9.04</u>	<u>NA</u>	<u>13.13</u>	<u>1,587.80</u>	<u>0.16</u>	<u>7.44</u>	<u>19</u>	<u>-114.1</u>	<u>Clear</u>
<u>purge</u>	<u>8:43</u>	<u>NA</u>	<u>9.45</u>	<u>NA</u>	<u>13.13</u>	<u>1,601.90</u>	<u>0.18</u>	<u>7.43</u>	<u>16.8</u>	<u>-111.7</u>	<u>Clear</u>
<u>purge</u>	<u>8:46</u>	<u>NA</u>	<u>9.51</u>	<u>NA</u>	<u>13.11</u>	<u>1,613.20</u>	<u>0.15</u>	<u>7.43</u>	<u>22.5</u>	<u>-110.2</u>	<u>Clear</u>
Stabilized at 8:46. Sampled at 8:50											
NOTES								ABBREVIATIONS			
Initial/Potentiometric WL: <u>9.04</u> Date: <u>9/21/2023</u> Time: <u>8:40</u>								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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>			Time: <u>8:40</u>		
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>			Time: <u>8:50</u>		
WELL INFORMATION				EVENT TYPE							
Well ID: <u>VER-003R</u>				<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling					
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____					
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
NOTES (continued)									ABBREVIATIONS		
Ferrous Iron reading = 3.153 ppm									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: Vermilion Power Station Client: Vistra Energy
 Project Number: 1940103649 Task #: _____ Start Date: September 20, 2023 Time: 13:50
 Field Personnel: Barley/Kikkert/Tabares Finish Date: September 20, 2023 Time: 14:50

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>VER-004</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA05081</u>
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below)	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: <u>300 mL/min</u>

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)				
LNAPL					Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
Groundwater	<u>8.94</u>	<u>13:50</u>			Volume Per Foot: _____			
DNAPL					Standing Water Column: _____ feet			
Casing Base					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
					Total Volumes Produced: _____ Gallons			
					Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Water Level Serial #: _____ Solinst Water Quality Probe Type and Serial #: _____ AquaTroll 600 #867305

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	<u>13:51</u>	<u>NA</u>	<u>8.94</u>	<u>NA</u>	<u>15.69</u>	<u>582.89</u>	<u>0.89</u>	<u>7.5</u>	<u>31.7</u>	<u>-123</u>	<u>Clear</u>
purge	<u>13:55</u>	<u>NA</u>	<u>9.31</u>	<u>NA</u>	<u>15.6</u>	<u>28.27</u>	<u>0.67</u>	<u>7.46</u>	<u>21.2</u>	<u>-120.7</u>	<u>Clear</u>
purge	<u>13:58</u>	<u>NA</u>	<u>9.31</u>	<u>NA</u>	<u>15.5</u>	<u>406.03</u>	<u>0.86</u>	<u>7.43</u>	<u>19.1</u>	<u>-126.9</u>	<u>Clear</u>
purge	<u>14:01</u>	<u>NA</u>	<u>9.31</u>	<u>NA</u>	<u>15.53</u>	<u>468.38</u>	<u>0.6</u>	<u>7.41</u>	<u>14.2</u>	<u>-125.5</u>	<u>Clear</u>
purge	<u>14:04</u>	<u>NA</u>	<u>9.31</u>	<u>NA</u>	<u>15.55</u>	<u>193.85</u>	<u>0.59</u>	<u>7.4</u>	<u>9.04</u>	<u>-123.3</u>	<u>Clear</u>
purge	<u>14:07</u>	<u>NA</u>	<u>9.31</u>	<u>NA</u>	<u>15.51</u>	<u>270.37</u>	<u>1.13</u>	<u>7.39</u>	<u>6.19</u>	<u>-120.6</u>	<u>Clear</u>
purge	<u>14:10</u>	<u>NA</u>	<u>9.31</u>	<u>NA</u>	<u>15.52</u>	<u>96.05</u>	<u>0.54</u>	<u>7.4</u>	<u>4.23</u>	<u>-125.8</u>	<u>Clear</u>
purge	<u>14:13</u>	<u>NA</u>	<u>9.31</u>	<u>NA</u>	<u>15.46</u>	<u>467.88</u>	<u>0.54</u>	<u>7.41</u>	<u>3.26</u>	<u>-127.3</u>	<u>Clear</u>

Initial/Potentiometric WL: 8.94 Date: 9/20/2023 Time: 13:50
 Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential
 FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance
 na - Not Applicable SU - Standard Units
 nm - Not Measured Temp - Temperature
 °C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION															
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>									
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 20, 2023</u>			Time: <u>13:50</u>						
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 20, 2023</u>			Time: <u>14:50</u>						
WELL INFORMATION				EVENT TYPE											
Well ID: <u>VER-004</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
purge	14:16	NA	9.31	NA	15.51	69.16	0.74	7.42	2.88	-126.7	Clear				
purge	14:19	NA	9.31	NA	15.56	202.27	0.53	7.44	2.66	-121.6	Clear				
purge	14:22	NA	9.31	NA	15.52	469.8	0.66	7.46	1.96	-133.1	Clear				
purge	14:25	NA	9.31	NA	15.49	91.45	0.57	7.49	1.71	-132.3	Clear				
purge	14:28	NA	9.31	NA	15.57	112.08	0.61	7.51	1.67	-134	Clear				
purge	14:31	NA	9.31	NA	15.53	119.95	0.82	7.52	1.59	-134	Clear				
purge	14:34	NA	9.31	NA	15.52	311.88	0.59	7.54	1.24	-138.9	Clear				
purge	14:37	NA	9.31	NA	15.56	134.88	0.57	7.55	1.13	-137.8	Clear				
purge	14:40	NA	9.31	NA	15.56	489.87	0.71	7.57	1.03	-136.8	Clear				
purge	14:43	NA	9.31	NA	15.65	195.91	0.71	7.57	0.98	-138.7	Clear				
Max purge time reached. Sampled at 14:50															
NOTES (continued)								ABBREVIATIONS							
MS/MSD samples collected @ 14:55. Ferrous iron reading = underrange								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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>				Time: <u>10:35</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>				Time: <u>10:57</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-005</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA04660</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____						Stabilized Pumping Rate: <u>400 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>9.68</u>	<u>10:35</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #887121</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:35	NA	9.68	NA	15.48	720.48	1.12	7.32	3.52	28.7	Clear
purge	10:38	NA	10.15	NA	15.1	722.13	0.13	7.44	138	-2.1	Slightly turbid
purge	10:41	NA	10.09	NA	15.05	722.34	0.08	7.46	106	-8.7	Slightly turbid
purge	10:44	NA	10	NA	15.05	723.18	0.04	7.47	59.5	-13.2	Clear
purge	10:47	NA	10	NA	15.02	723.8	0.03	7.49	34.4	-14.7	Clear
purge	10:50	NA	10	NA	15	724.85	0.01	7.5	27.9	-15.1	Clear
purge	10:53	NA	10	NA	14.92	725.02	0.01	7.5	23.2	-15.3	Clear
purge	10:57	NA	10	NA	14.91	724.87	0.01	7.51	19.1	-15.1	Clear
NOTES									ABBREVIATIONS		
Initial/Potentiometric WL: 9.68 Date: 9/21/23 Time: 10:35									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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>									
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>				Time: <u>10:35</u>					
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>				Time: <u>10:57</u>					
WELL INFORMATION					EVENT TYPE										
Well ID: <u>VER-005</u>					<input type="checkbox"/> Well Development		<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling								
Casing ID: _____ inches					<input type="checkbox"/> Well Volume Approach Sampling		<input type="checkbox"/> Other (Specify): _____								
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
Stable at 10:57. Sampled at 10:57															
NOTES (continued)								ABBREVIATIONS							
Ferrous Iron reading = underrange								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			

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station Client: Vistra Energy
 Project Number: 1940103649 Task #: _____ Start Date: September 18, 2023 Time: 13:17
 Field Personnel: Barley/Kikkert/Tabares Finish Date: September 18, 2023 Time: _____

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>VER-007R</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: _____
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below) _____	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: _____

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)				
LNAPL					Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
Groundwater	15.94	13:17			Volume Per Foot: _____			
DNAPL					Standing Water Column: _____ feet			
Casing Base					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
					Total Volumes Produced: _____ Gallons			
					Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Water Level Serial #: _____ Solinst Water Quality Probe Type and Serial #: _____ AquaTroll 600

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial		NA		NA							
purge											

NOTES	ABBREVIATIONS
Initial/Potentiometric WL: <u>16</u> Date: <u>9/18/23</u> Time: <u>13:17</u> Well obstructed. No sample collected.	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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 18, 2023</u>	Time: <u>13:17</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 18, 2023</u>	Time: _____

WELL INFORMATION	EVENT TYPE	
Well ID: <u>VER-007R</u>	<input type="checkbox"/> Well Development	<input type="checkbox"/> Low-Flow / Low Stress Sampling
Casing ID: _____ inches	<input type="checkbox"/> Well Volume Approach Sampling	<input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity

NOTES (continued)	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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>				Time: <u>9:15</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>				Time: <u>9:30</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-008R</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA05081</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: <u>160 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>14.4</u>	<u>9:15</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #867305</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>initial</u>	<u>9:17</u>	<u>NA</u>	<u>14.4</u>	<u>NA</u>	<u>15.02</u>	<u>1694.3</u>	<u>1.11</u>	<u>7.92</u>	<u>4853</u>	<u>-109.8</u>	<u>Turbid</u>
<u>purge</u>	<u>9:20</u>	<u>NA</u>	<u>14.4</u>	<u>NA</u>	<u>15.02</u>	<u>1689</u>	<u>0.45</u>	<u>8</u>	<u>33.53</u>	<u>-116.4</u>	<u>Turbid</u>
	<u>9:23</u>	<u>NA</u>	<u>14.4</u>	<u>NA</u>	<u>15.02</u>	<u>1685.2</u>	<u>0.36</u>	<u>8.04</u>	<u>31.99</u>	<u>-119.8</u>	<u>Turbid</u>
	<u>9:26</u>	<u>NA</u>	<u>14.4</u>	<u>NA</u>	<u>15.02</u>	<u>1686</u>	<u>0.35</u>	<u>8.03</u>	<u>35.48</u>	<u>-118.3</u>	<u>Turbid</u>
Stabilized. Sample collected at 09:30											
NOTES									ABBREVIATIONS		
Initial/Potentiometric WL: <u>14</u> Date: <u>09/21/23</u> Time: <u>09:15</u>									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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>			Time: <u>9:15</u>		
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>			Time: <u>9:30</u>		
WELL INFORMATION				EVENT TYPE							
Well ID: <u>VER-008R</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
NOTES (continued)								ABBREVIATIONS			
Ferrous Iron reading = 0.669 ppm								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius			



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 19, 2023</u>				Time: <u>9:20</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 19, 2023</u>				Time: <u>10:20</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-010</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 / FAO5081</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: <u>200 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>50.64</u>	<u>9:24</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #867305</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	9:24	NA	50.64	NA	15.13	1,422.80	3.64	6.91	215.76	216.2	Clear
purge	9:29	NA	50.64	NA	14.47	1,441.60	3.63	6.91	114.2	218.4	Clear
purge	9:34	NA	50.64	NA	14.71	1,436.30	3.67	6.92	99.45	212	Clear
purge	9:39	NA	50.64	NA	14.93	1412.4	3.04	6.95	112.68	155.8	Clear
purge	9:44	NA	50.64	NA	15.57	1410.5	2.88	6.96	117.35	143.4	Clear
purge	9:49	NA	50.64	NA	15.7	1,387.10	2.41	6.97	70.73	81.1	Clear
purge	9:53	NA	50.64	NA	15.71	1368	2.04	6.98	41.86	60.3	Clear
purge	9:58	NA	50.64	NA	16.13	1373.8	2.22	6.96	57.93	81.3	Clear
NOTES									ABBREVIATIONS		
Initial/Potentiometric WL: <u>50.64</u> Date: <u>9/19/2023</u> Time: <u>09:20</u>									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: <u>Vermilion Power Station</u>		Client: <u>Vistra</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 19, 2023</u>	Time: <u>9:20</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 19, 2023</u>	Time: <u>10:20</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-010</u>	<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
Casing ID: _____ inches	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	10:03	NA	50.64	NA	16.22	1385.3	2.6	6.94	50.19	136.7	Clear
purge	10:08	NA	50.64	NA	16.16	1388.2	2.78	6.93	36.96	176.1	Clear
purge	10:10	NA	50.64	NA	16.06	1388.5	2.82	6.94	45.77	184.8	Clear
purge	10:15	NA	50.64	NA	16.48	1386.9	2.96	6.94	43.84	195.7	Clear

STABILIZED. Sample collected at 10:20

NOTES (continued)	ABBREVIATIONS										
Duplicate sample collected @ 10:20. Ferrous Iron Reading = Underrange	<table style="width:100%; font-size: small;"> <tr> <td>Cond. - Actual Conductivity</td> <td>ORP - Oxidation-Reduction Potential</td> </tr> <tr> <td>FT BTOC - Feet Below Top of Casing</td> <td>SEC - Specific Electrical Conductance</td> </tr> <tr> <td>na - Not Applicable</td> <td>SU - Standard Units</td> </tr> <tr> <td>nm - Not Measured</td> <td>Temp - Temperature</td> </tr> <tr> <td></td> <td>°C - Degrees Celcius</td> </tr> </table>	Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential	FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance	na - Not Applicable	SU - Standard Units	nm - Not Measured	Temp - Temperature		°C - Degrees Celcius
Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential										
FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance										
na - Not Applicable	SU - Standard Units										
nm - Not Measured	Temp - Temperature										
	°C - Degrees Celcius										



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>				Time: <u>15:40</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>				Time: <u>16:10</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-016A</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Peristaltic Pump #24345</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: _____					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>9.60</u>	<u>15:40</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # _____ AquaTroll 600						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>initial</u>	<u>15:45</u>	<u>NA</u>	<u>10</u>	<u>NA</u>	<u>22.06</u>	<u>0.002</u>	<u>9.9</u>	<u>6.82</u>	<u>4.61</u>	<u>128</u>	<u>slightly</u>
<u>purge</u>	<u>15:50</u>	<u>NA</u>	<u>10.94</u>	<u>NA</u>	<u>21.51</u>	<u>0.002</u>	<u>9.6</u>	<u>6.81</u>	<u>4.77</u>	<u>92</u>	<u>slightly</u>
<u>purge</u>	<u>15:55</u>	<u>NA</u>	<u>11.9</u>	<u>NA</u>	<u>21.61</u>	<u>0.002</u>	<u>9.29</u>	<u>6.75</u>	<u>4.64</u>	<u>100</u>	<u>slightly</u>
<u>purge</u>	<u>15:58</u>	<u>NA</u>	<u>11.96</u>	<u>NA</u>	<u>21.61</u>	<u>0.002</u>	<u>9.26</u>	<u>6.74</u>	<u>4.63</u>	<u>106</u>	<u>slightly</u>
<u>purge</u>	<u>16:01</u>	<u>NA</u>	<u>12.19</u>	<u>NA</u>	<u>21.6</u>	<u>0.002</u>	<u>9.23</u>	<u>6.74</u>	<u>4.63</u>	<u>103</u>	<u>slightly</u>
<u>purge</u>	<u>16:04</u>	<u>NA</u>	<u>12.63</u>	<u>NA</u>	<u>21.58</u>	<u>0.002</u>	<u>9.21</u>	<u>6.71</u>	<u>4.61</u>	<u>110</u>	<u>slightly</u>
Stabilized. Sample collected at 16:10											
NOTES								ABBREVIATIONS			
<u>Initial/Potentiometric WL: 9.60 Date: 09/21/23 Time: 15:40</u>								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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>			Time: <u>15:40</u>		
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>			Time: <u>16:10</u>		
WELL INFORMATION				EVENT TYPE							
Well ID: <u>VER-016A</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
NOTES (continued)								ABBREVIATIONS			
Ferrous Iron reading = underrange.								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius			



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Power Station Client: Vistra Energy
 Project Number: 1940103649 Task #: _____ Start Date: September 18, 2023 Time: 14:04
 Field Personnel: Barley/Kikkert/Tabares Finish Date: September 18, 2023 Time: _____

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>VER-016B!</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: _____
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below) _____	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: _____

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)				
LNAPL					Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
Groundwater	<u>Dry</u>	<u>14:04</u>			Volume Per Foot: _____			
DNAPL					Standing Water Column: _____ feet			
Casing Base					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
					Total Volumes Produced: _____ Gallons			
					Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Water Level Serial #: _____ Solinst Water Quality Probe Type and Serial # _____ AquaTroll 600

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial		NA		NA							
purge											

NOTES **ABBREVIATIONS**

Initial/Potentiometric WL: Dry Date: 09/18/23 Time: 14:04
 Well dry. No sample collected.

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential
 FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance
 na - Not Applicable SU - Standard Units
 nm - Not Measured Temp - Temperature
 °C - Degrees Celcius



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION															
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>									
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 18, 2023</u>			Time: <u>14:04</u>						
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 18, 2023</u>			Time: _____						
WELL INFORMATION				EVENT TYPE											
Well ID: <u>VER-016B!</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
NOTES (continued)								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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>				Time: <u>7:52</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>				Time: <u>8:51</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-017</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 / FA04650</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____						Stabilized Pumping Rate: <u>350 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>39.91</u>	<u>7:52</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #887121</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	7:52	NA	39.91	NA	14.01	2,051.20	4.81	7.05	180	179	Slightly turbid
purge	7:57	NA	BTOP	NA	13.85	2,015.10	0.68	6.86	178	-35.6	Slightly turbid
purge	8:00	NA	BTOP	NA	13.39	1,987.10	0.28	6.78	93.3	-18.7	Clear
purge	8:03	NA	BTOP	NA	13.32	1,977.20	0.17	6.73	66.9	1.7	Clear
purge	8:06	NA	BTOP	NA	13.3	1,978.00	0.13	6.72	56.6	5.3	Clear
purge	8:09	NA	BTOP	NA	13.44	1,982.50	0.15	6.72	66.6	0.4	Clear
purge	8:12	NA	BTOP	NA	13.4	1,778.40	0.52	6.73	64.3	-7.5	Clear
purge	8:15	NA	BTOP	NA	13.36	1,651.00	0.39	6.75	53	-17.1	Clear
NOTES									ABBREVIATIONS		
Initial/Potentiometric WL: <u>39.91</u> Date: <u>9/21/2023</u> Time: <u>07:52</u>									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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 21, 2023</u>	Time: <u>7:52</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 21, 2023</u>	Time: <u>8:51</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-017</u>	<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
Casing ID: _____ inches	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	8:18	NA	BTOP	NA	13.36	1,606.10	0.39	6.77	56.9	-25.1	Clear
purge	8:21	NA	BTOP	NA	13.36	1,792.70	0.37	6.79	48.8	-30.9	Clear
purge	8:24	NA	BTOP	NA	13.37	1,950.90	0.26	6.8	40.1	-34	Clear
purge	8:27	NA	BTOP	NA	13.65	1,960.90	0.39	6.82	37.7	-38.5	Clear
purge	8:30	NA	BTOP	NA	14.19	1,998	0.62	6.86	28.4	-48.7	Clear
purge	8:33	NA	BTOP	NA	14.52	2,050	0.85	6.92	37.7	-63.1	Clear
purge	8:36	NA	BTOP	NA	14.66	2,107.10	1.28	6.98	28.1	-71.5	Clear
purge	8:39	NA	BTOP	NA	14.84	2,128.80	2.15	7.01	23	-68.4	Clear
purge	8:42	NA	BTOP	NA	14.93	2,159	2.04	7.04	17.4	-71.2	Clear
purge	8:45	NA	BTOP	NA	14.9	2,164.40	1.91	7.05	13	-71	Clear
purge	8:48	NA	BTOP	NA	14.85	2,167.70	1.75	7.06	12.4	-70.6	Clear
purge	8:51	NA	BTOP	NA	14.85	2,171	1.57	7.06	8.34	-70.5	Clear

Max purge time reached. Sampled at 08:51

NOTES (continued)	ABBREVIATIONS
<p>Water level below top of pump (BTOP). Ferrous Iron reading = overrange</p>	<p>Cond. - Actual Conductivity FT BTOP - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius</p>

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION			
Site: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 21, 2023</u>	Time: <u>12:40</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 21, 2023</u>	Time: <u>13:07</u>

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>VER-020</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: <u>Dedicated Bladder with MP50 / FA04650</u>
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below) _____	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: <u>400 mL/min</u>

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)	Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
LNAPL					Volume Per Foot: _____ feet			
Groundwater	15.62	12:40			Standing Water Column: _____ feet			
DNAPL					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
Casing Base					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
					Total Volumes Produced: _____ Gallons			
					Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Water Level Serial #: _____ Solinst	Water Quality Probe Type and Serial #: _____ AquaTroll 600 #887121
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WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	12:40	NA	15.62	NA	14.21	685.45	0.22	7.02	106	-21.2	Clear
purge	12:43	NA	16	NA	14.2	700.58	0.14	6.96	66.8	-15.4	Clear
purge	12:46	NA	16	NA	14.22	708.73	0.11	6.93	35.3	-11	Clear
purge	12:49	NA	16	NA	14.31	714.16	0.11	6.92	33.7	-9.2	Clear
purge	12:52	NA	16	NA	14.25	718.81	0.09	6.92	14.7	-9.7	Clear
purge	12:55	NA	16	NA	14.24	722	0.07	6.93	13.5	-11	Clear
purge	12:58	NA	16.02	NA	14.18	726.61	0.05	6.94	11.7	-12.4	Clear
purge	13:01	NA	16.1	NA	14.2	725.83	0.04	6.95	9.97	-14.5	Clear

NOTES	ABBREVIATION -16
Initial/Potentiometric WL: 15.62 Date: 9/21/2023 Time: 12:40	Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION			
Site: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 21, 2023</u>	Time: <u>12:40</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 21, 2023</u>	Time: <u>13:07</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-020</u>	<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
Casing ID: _____ inches	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	13:04	NA	16.1	NA	14.08	727.42	0.03	6.97	13.3	-16.1	Clear
purge	13:07	NA	16.1	NA	14.07	729.57	0.03	6.98	6.86	-17.3	Clear

Stabilized at 13:07. Sampled at 13:07.

NOTES (continued)	ABBREVIATIONS
<p style="text-align: center;">Ferrous Iron reading = underrange.</p>	<p>Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius</p>

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 20, 2023</u>				Time: <u>10:05</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>				Finish Date: <u>September 20, 2023</u>		Time: <u>10:20</u>					
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-021</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA05081</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____						Stabilized Pumping Rate: <u>250 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
LNAPL						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
Groundwater		91.46	10:05			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
DNAPL						Total Volumes Produced: _____ Gallons					
Casing Base						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst				Water Quality Probe Type and Serial # _____ AquaTroll 600 #867305							
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:03	NA	91.46	NA	15.67	683.83	6.44	7.28	0.46	-3.4	Clear
purge	10:04	NA	91.46	NA	14.09	689.2	4.68	7.27	4.79	-24.9	Clear
purge	10:05	NA	91.46	NA	13.86	691.63	2.55	7.18	2.44	-41.9	Clear
purge	10:08	NA	93.78	NA	13.57	699.79	1.04	7.29	11.7	-77.9	Clear
purge	10:11	NA	94.38	NA	13.5	701.53	0.67	7.34	15.5	-89.9	Clear
purge	10:14	NA	95.49	NA	13.41	703.08	0.52	7.37	11.8	-98.4	Clear
purge	10:17	NA	95.49	NA	13.35	704.45	0.42	7.4	7.94	-108.7	Clear
purge	10:20	NA	95.95	NA	13.43	704.13	0.38	7.42	7.94	-116.2	Clear
Stabilized at 10:19. Sampled at 10:20											
NOTES						ABBREVIATIONS					
Initial/Potentiometric WL: 91.46 Date: 9/20/2023 Time: 10:05						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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 20, 2023</u>			Time: <u>10:05</u>		
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 20, 2023</u>			Time: <u>10:20</u>		
WELL INFORMATION				EVENT TYPE							
Well ID: <u>VER-021</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
NOTES (continued)							ABBREVIATIONS				
Switched to HACH at 10:05 for turbidity measurements. Ferrous Iron reading = 2.424 ppm							Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius				



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 19, 2023</u>				Time: <u>8:06</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 19, 2023</u>				Time: <u>9:20</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-022</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 / FA04650</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____						Stabilized Pumping Rate: <u>440 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>56.33</u>	<u>8:06</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #887121</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	8:06	NA	56.33	NA	15.55	533.25	4.98	7.48	210.99	-58.1	Clear
purge	8:11	NA	59.32	NA	14.03	0.07	5.6	7.33	479.11	64.3	Clear
purge	8:16	NA	59.32	NA	13.88	122.22	2.13	7.32	951.35	47	Clear
purge	8:21	NA	61.42	NA	13.86	247.72	1.7	7.32	777.02	40.7	Clear
purge	8:26	NA	61.42	NA	13.85	11.77	4.79	7.32	372.79	21.9	Clear
purge	8:31	NA	61.42	NA	13.89	0.07	4.6	7.33	2700.9	29	Clear
purge	8:36	NA	61.42	NA	13.77	0.07	0.91	7.32	0.00	34.9	Clear
purge	8:36	NA	61.42	NA	13.82	0.07	1.03	7.33	0.00	34.3	Clear
NOTES									ABBREVIATIONS		
Initial/Potentiometric WL: <u>56.33</u> Date: <u>9/19/23</u> Time: <u>08:06</u>									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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 19, 2023</u>	Time: <u>8:06</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 19, 2023</u>	Time: <u>9:20</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-022</u>	<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
Casing ID: _____ inches	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	8:41	NA	61.42	NA	13.79	0.07	0.56	7.33	114.07	37.7	Clear
purge	8:46	NA	62.42	NA	13.88	0.07	0.71	7.35	0.00	24.3	Clear
purge	8:51	NA	63.42	NA	13.77	30.25	1.88	7.36	0.00	-1.4	Clear
purge	8:54	NA	64.42	NA	13.76	38.37	1.08	7.38	0.00	-9.8	Clear
purge	8:59	NA	65.42	NA	13.89	16.1	2.21	7.39	0.00	-6.3	Clear
purge	9:00	NA	66.42	NA	13.72	760.27	1.54	7.4	0.00	-7.5	Clear
purge	9:05	NA	67.42	NA	13.72	40.71	1	7.4	0.00	-1.2	Clear
purge	9:10	NA	68.42	NA	13.68	37.73	0.67	7.41	0.00	-5.4	Clear
purge	9:15	NA	69.42	NA	13.91	0.07	0.83	7.42	0.00	-10.7	Clear

Max purge time reached. Sampled at 9:20

NOTES (continued)	ABBREVIATIONS
<p>MS/MSD 1. Ferrous Iron Reading = 1.921 ppm</p>	<p>Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius</p>



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>				Time: <u>13:42</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>				Time: <u>14:46</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-034</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 / FA04650</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____						Stabilized Pumping Rate: <u>400 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons		3 Well Volumes: _____ Gallons			
<u>Groundwater</u>		<u>15.39</u>	<u>13:42</u>			5 Well Volumes: _____ Gallons		10 Well Volumes: _____ Gallons			
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #887121</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	13:46	NA	15.39	NA	14.95	915	0.56	7.16	94.07	-126.2	slightly
purge	13:49	NA	15.39	NA	12.87	884.01	0	7	170.77	-124	slightly
purge	13:52	NA	15.8	NA	12.98	850.35	0	6.93	114.36	-121.5	slightly
purge	13:55	NA	15.8	NA	12.73	953.18	0	6.88	369.01	-120.8	slightly
purge	13:58	NA	15.7	NA	12.79	930.83	0	6.85	187.66	-121.5	slightly
purge	14:01	NA	15.7	NA	12.7	905.33	0	6.85	146.34	-122	slightly
purge	14:04	NA	15.8	NA	12.69	893.7	0	6.85	372.66	-123.2	slightly
purge	14:07	NA	15.81	NA	12.72	834.23	0	6.85	119.49	-124.2	slightly
Notes									ABBREVIATIONS		
Initial/Potentiometric WL: <u>15.39</u> Date: <u>9/21/23</u> Time: <u>13:42</u>									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

WELL INFORMATION				EVENT TYPE								
Well ID: VER-034				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling				
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____				
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity	
purge	14:10	NA	15.83	NA	12.65	946.51	0	6.86	109.8	-125.3	slightly	
purge	14:13	NA	15.79	NA	12.69	929.42	0	6.87	89.45	-126.3	clear	
purge	14:16	NA	15.76	NA	12.59	902.29	0	6.88	91.7	-127.2	clear	
purge	14:19	NA	15.76	NA	12.7	881.7	0	6.88	106.73	-128.2	slightly	
purge	14:22	NA	15.76	NA	12.59	852.94	0	6.89	63.81	-129.1	clear	
purge	14:25	NA	15.76	NA	12.71	828.38	0	6.91	71.81	-130	clear	
purge	14:28	NA	15.76	NA	12.59	866.33	0	6.92	150.78	-130.8	slightly	
purge	14:31	NA	15.76	NA	12.66	948.33	0	6.93	78.59	-131.8	clear	
purge	14:34	NA	15.76	NA	12.61	932.88	0	6.94	49.12	-132.9	clear	
purge	14:37	NA	15.76	NA	12.63	922.38	0	6.95	63.3	-133.9	clear	
purge	14:40	NA	15.76	NA	12.6	891.69	0	6.96	43.93	-134.9	clear	
purge	14:43	NA	15.76	NA	12.6	864.32	0	6.97	48.4	-135.8	clear	
purge	14:46	NA	15.76	NA	12.62	859.19	0	6.99	45.12	-136.6	clear	
Stabilized at 14:46. Sampled at 14:46												
											ABBREVIATIONS	
Aquatroll turbidity malfunction. Used HACH 2100Q for turbidity readings. Ferrous Iron = underrange											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

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION			
Site: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 22, 2023</u>	Time: <u>9:10</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 22, 2023</u>	Time: <u>9:35</u>

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>VER-035D</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: <u>Dedicated Bladder with MP50 / FA04650</u>
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below) _____	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: _____

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)				
LNAPL					Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
Groundwater	11.3	9:20			Volume Per Foot: _____			
DNAPL					Standing Water Column: _____ feet			
Casing Base					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
					Total Volumes Produced: _____ Gallons			
					Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Water Level Serial #: _____ Solinst Water Quality Probe Type and Serial # _____ AquaTroll 600 #867121

WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	09:20	NA	11.3	NA	15.65	4504.5	0.57	7.37	4.33	-120.1	Slightly
purge	09:23	NA	12.13	NA	14.69	4520.1	0.23	7.32	3.53	-125.9	clear
purge	09:26	NA	16.82	NA	14.36	4540	0.17	7.3	6.99	-127.3	clear
purge	09:29	NA	18.64	NA	14.05	4492.2	0.11	7.31	3.03	-131.5	clear
purge	09:32	NA	18.64	NA	13.86	4521.3	0.13	7.33	3.67	-132.8	clear
sample	09:35	NA	20.62	NA	13.73	4516	0.08	7.33	3.1	-132.5	clear
Stabilized at 09:35. Sampled at 09:35											

NOTES	ABBREVIATIONS
Initial/Potentiometric WL: <u>11.3</u> Date: <u>9/22/23</u> Time: <u>09:20</u>	Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 22, 2023</u>			Time: <u>9:10</u>		
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 22, 2023</u>			Time: <u>9:35</u>		
WELL INFORMATION				EVENT TYPE							
Well ID: <u>VER-035D</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
NOTES (continued)								ABBREVIATIONS			
Duplicate sample collected @ 09:40. Aquatroll turbidity malfunction. Used HACH 2100Q for turbidity readings. Ferrous Iron = 2.850 ppm								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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>						
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 18, 2023</u>				Time: <u>13:40</u>		
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 18, 2023</u>				Time: _____		
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION						
Well ID: <u>VER-035S</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Pump						
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>						
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: _____						
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____						
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: _____						
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION							
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole						
		Depth	Time	Depth	Time	Volume Per Foot: _____						
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet						
<u>LNAPL</u>						1 Well Volume: _____ Gallons		3 Well Volumes: _____ Gallons				
<u>Groundwater</u>		<u>Dry</u>	<u>13:40</u>			5 Well Volumes: _____ Gallons		10 Well Volumes: _____ Gallons				
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons						
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No						
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # _____ AquaTroll 600							
WATER QUALITY INDICATOR PARAMETERS												
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity	
<u>initial</u>		<u>NA</u>		<u>NA</u>								
<u>purge</u>												
NOTES									ABBREVIATIONS			
Initial/Potentiometric WL: <u>Dry</u> Date: <u>9/18/23</u> Time: <u>13:40</u> Well dry. No sample collected.									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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 18, 2023</u>			Time: <u>13:40</u>		
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 18, 2023</u>			Time: _____		
WELL INFORMATION				EVENT TYPE							
Well ID: <u>VER-035S</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
NOTES (continued)								ABBREVIATIONS			
								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius			



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION			
Site: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 20, 2023</u>	Time: <u>10:35</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 20, 2023</u>	Time: <u>10:47</u>

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>VER-036</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA04650</u>
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below) _____	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: <u>400 mL/min</u>

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)				
LNAPL					Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
Groundwater	14.95	10:35			Volume Per Foot: _____			
DNAPL					Standing Water Column: _____ feet			
Casing Base					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
					Total Volumes Produced: _____ Gallons			
					Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Water Level Serial #: _____	Solinst	Water Quality Probe Type and Serial # _____	AquaTroll 600 #887121
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WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:35	NA	14.95	NA	26.22	0.05	7.16	7.27	28.3	45.3	Clear
purge	10:38	NA	15.10	NA	14.39	1,899.10	0.1	7.14	10.2	-119.2	Clear
purge	10:41	NA	15.15	NA	14.64	1,917.70	0.06	7.06	5.12	-113.9	Clear
purge	10:44	NA	15.05	NA	14.58	1,956.40	0.03	7.05	3.72	-111.0	Clear
purge	10:47	NA	15.05	NA	14.67	1,976.80	0.02	7.06	3.49	-110.3	Clear

Stabilized at 10:47. Sampled at 10:47

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NOTES	ABBREVIATIONS
Initial/Potentiometric WL: 14.95 Date: 9/20/2023 Time: 10:35	Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION			
Site: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 20, 2023</u>	Time: <u>10:35</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 20, 2023</u>	Time: <u>10:47</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-036</u>	<input type="checkbox"/> Well Development
Casing ID: _____ inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity

NOTES (continued)	ABBREVIATIONS
<p>Ferrous Iron reading = 6.454 ppm</p>	Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 20, 2023</u>				Time: <u>11:37</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 20, 2023</u>				Time: <u>12:31</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-037</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA04650</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: <u>300 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons		3 Well Volumes: _____ Gallons			
<u>Groundwater</u>		<u>8.96</u>	<u>11:37</u>			5 Well Volumes: _____ Gallons		10 Well Volumes: _____ Gallons			
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #887121</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	11:37	NA	8.96	NA	19.65	1,277.30	1.07	6.99	62.9	-99.8	Slightly Turbid
purge	11:40	NA	9.41	NA	15.91	1,328.60	0.53	6.84	9.19	-116.7	Clear
purge	11:43	NA	9.41	NA	15.34	1,307.70	0.53	6.83	3.66	-123.3	Clear
purge	11:46	NA	9.41	NA	15.09	1,328.30	0.42	6.85	3.9	-124.4	Clear
purge	11:49	NA	9.41	NA	15.33	1,285.40	0.37	6.86	6.57	-124.6	Clear
purge	11:52	NA	9.41	NA	15.27	1,223.50	0.31	6.86	7.36	-125.6	Clear
purge	11:55	NA	9.41	NA	15.42	1,299.00	0.53	6.87	9.42	-124.0	Clear
purge	11:57	NA	9.39	NA	15.53	1,243.10	0.64	6.88	10.4	-122.3	Clear
NOTES									ABBREVIATIONS		
Initial/Potentiometric WL: <u>8.96</u> Date: <u>9/20/2023</u> Time: <u>11:37</u>									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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 20, 2023</u>	Time: <u>11:37</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 20, 2023</u>	Time: <u>12:31</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-037</u>	<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
Casing ID: _____ inches	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	12:01	NA	9.12	NA	15.55	1,339.90	0.66	6.88	10.4	-121.4	Clear
purge	12:04	NA	9.10	NA	17.28	1,322.80	0.89	6.87	10.5	-117.8	Clear
purge	12:07	NA	9.10	NA	20.79	1,317.60	1.36	6.86	12.8	-114	Clear
purge	12:10	NA	9.11	NA	15.48	1,312.50	0.46	6.86	15.4	-119	Clear
purge	12:13	NA	9.30	NA	15.05	1,313.40	0.42	6.89	10.3	-120.3	Clear
purge	12:16	NA	9.30	NA	14.97	1,271.00	0.41	6.88	9.64	-120.7	Clear
purge	12:19	NA	9.30	NA	15.04	1,328.70	0.4	6.87	14.3	0129,3	Clear
purge	12:22	NA	9.30	NA	14.82	1,260.90	0.46	6.88	14.1	0118,6	Clear
purge	12:25	NA	9.30	NA	14.93	1,277.80	0.35	6.87	10.8	-120.3	Clear
purge	12:28	NA	9.30	NA	14.9	1,303	0.4	6.88	11.3	-120.1	Clear
purge	12:31	NA	9.30	NA	14.89	1,320.20	0.34	6.87	11.2	-119.6	Clear

Stabilized at 12:31. Sampled at 12:31

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NOTES (continued)	ABBREVIATIONS										
At 11:57, marine battery for MP50 died. Replaced at 12:06. Ferrous Iron reading = 4.031 ppm	<table style="width:100%; font-size: small;"> <tr> <td>Cond. - Actual Conductivity</td> <td>ORP - Oxidation-Reduction Potential</td> </tr> <tr> <td>FT BTOC - Feet Below Top of Casing</td> <td>SEC - Specific Electrical Conductance</td> </tr> <tr> <td>na - Not Applicable</td> <td>SU - Standard Units</td> </tr> <tr> <td>nm - Not Measured</td> <td>Temp - Temperature</td> </tr> <tr> <td></td> <td>°C - Degrees Celcius</td> </tr> </table>	Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential	FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance	na - Not Applicable	SU - Standard Units	nm - Not Measured	Temp - Temperature		°C - Degrees Celcius
Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential										
FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance										
na - Not Applicable	SU - Standard Units										
nm - Not Measured	Temp - Temperature										
	°C - Degrees Celcius										



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION			
Site: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 21, 2023</u>	Time: <u>15:35</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 21, 2023</u>	Time: <u>15:45</u>

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>VER-038</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA05081</u>
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below) _____	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: <u>760 mL/min</u>

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)	Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
LNAPL					Volume Per Foot: _____			
Groundwater	9.11	15:35			Standing Water Column: _____ feet			
DNAPL					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
Casing Base					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
					Total Volumes Produced: _____ Gallons			
					Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Water Level Serial #: _____	Solinst	Water Quality Probe Type and Serial # _____	AquaTroll 600 #867305
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WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	15:35	NA	9.11	NA					17		Clear
purge	15:38	NA	9.28	NA					8.83		Clear
purge	15:41	NA	9.32	NA	12.51	1,067.60	0.03	7.02	9.88	-121.7	Clear

Stabilized at 15:41. Sampled at 15:45

NOTES	ABBREVIATIONS
Initial/Potentiometric WL: 9.11 Date: 9/21/2023 Time: 15:35	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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 21, 2023</u>	Time: <u>15:35</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 21, 2023</u>	Time: <u>15:45</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-038</u>	<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
Casing ID: _____ inches	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity

NOTES (continued)	ABBREVIATIONS
<p>Ferrous Iron reading = Over range</p>	<p>Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius</p>



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>				Time: <u>13:53</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>				Time: <u>14:30</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-040</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA04650</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: _____					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons		3 Well Volumes: _____ Gallons			
<u>Groundwater</u>	<u>14.70</u>	<u>13:53</u>				5 Well Volumes: _____ Gallons		10 Well Volumes: _____ Gallons			
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #867121</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>initial</u>	<u>13:53</u>	<u>NA</u>	<u>14.70</u>	<u>NA</u>					<u>12.12</u>		<u>Clear</u>
<u>purge</u>	<u>13:56</u>	<u>NA</u>	<u>20.95</u>	<u>NA</u>					<u>7.74</u>		<u>Clear</u>
<u>purge</u>	<u>13:59</u>	<u>NA</u>	<u>21.90</u>	<u>NA</u>					<u>3.33</u>		<u>Clear</u>
<u>purge</u>	<u>14:02</u>	<u>NA</u>	<u>21.99</u>	<u>NA</u>					<u>2.72</u>		<u>Clear</u>
<u>purge</u>	<u>14:05</u>	<u>NA</u>	<u>21.30</u>	<u>NA</u>					<u>1.82</u>		<u>Clear</u>
<u>purge</u>	<u>14:08</u>	<u>NA</u>	<u>21.60</u>	<u>NA</u>					<u>2.50</u>		<u>Clear</u>
<u>purge</u>	<u>14:11</u>	<u>NA</u>	<u>21.60</u>	<u>NA</u>					<u>2.30</u>		<u>Clear</u>
Stabilized at 14:30. Sampled at 14:30											
NOTES								ABBREVIATIONS			
<u>Initial/Potentiometric WL: 14.70</u> Date: <u>9/21/2023</u> Time: <u>13:53</u>								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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>															
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>			Time: <u>13:53</u>												
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>			Time: <u>14:30</u>												
WELL INFORMATION				EVENT TYPE																	
Well ID: <u>VER-040</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling													
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____													
WATER QUALITY INDICATOR PARAMETERS (continued)																					
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity										
NOTES (continued)								ABBREVIATIONS													
Ferrous Iron reading = Over range								<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Cond. - Actual Conductivity</td> <td style="width: 50%;">ORP - Oxidation-Reduction Potential</td> </tr> <tr> <td>FT BTOC - Feet Below Top of Casing</td> <td>SEC - Specific Electrical Conductance</td> </tr> <tr> <td>na - Not Applicable</td> <td>SU - Standard Units</td> </tr> <tr> <td>nm - Not Measured</td> <td>Temp - Temperature</td> </tr> <tr> <td></td> <td>°C - Degrees Celcius</td> </tr> </table>				Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential	FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance	na - Not Applicable	SU - Standard Units	nm - Not Measured	Temp - Temperature		°C - Degrees Celcius
Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential																				
FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance																				
na - Not Applicable	SU - Standard Units																				
nm - Not Measured	Temp - Temperature																				
	°C - Degrees Celcius																				



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 20, 2023</u>				Time: <u>11:50</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 20, 2023</u>				Time: <u>12:35</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-041</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA5081</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: <u>280 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>7.12</u>	<u>11:50</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #867305</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	12:00	NA	7.12	NA	14.61	1,242.40	1.16	7.1	38	-104.9	Clear
purge	12:03	NA	7.13	NA	14.32	1,216.40	0.91	7.06	67.1	-103.6	Clear
purge	12:06	NA	7.18	NA	14.34	1,047.90	0.97	7.05	36.2	-103.1	Clear
purge	12:09	NA	7.18	NA	14.28	1,203.70	0.94	7.06	31.9	-102.6	Clear
purge	12:12	NA	7.18	NA	14.17	1,217.20	0.99	7.07	25.8	-102.9	Clear
purge	12:15	NA	7.18	NA	14.17	1,176.10	1.01	7.07	18.6	-102.4	Clear
purge	12:18	NA	7.18	NA	14.17	1,164.70	0.93	7.08	22.0	-103.2	Clear
purge	12:21	NA	7.18	NA	14.09	1,164.70	0.96	7.09	15.6	-103.9	Clear
NOTES									ABBREVIATIONS		
Initial/Potentiometric WL: <u>7.12</u> Date: <u>9/20/2023</u> Time: <u>11:50</u>									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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 20, 2023</u>	Time: <u>11:50</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 20, 2023</u>	Time: <u>12:35</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-041</u>	<input type="checkbox"/> Well Development
Casing ID: _____ inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	12:24	NA	7.18	NA	14.11	1,186.10	1.03	7.09	14.1	-104.1	Clear
purge	12:27	NA	7.21	NA	14.13	1,167.60	0.89	7.10	14.4	-105.1	Clear
purge	12:30	NA	7.20	NA	14.11	1,171.20	1.03	7.11	15.9	-105.1	Clear

Stabilized at 12:30. Sampled at 12:35.

NOTES (continued)	ABBREVIATIONS
Ferrous Iron reading = 4.522 ppm	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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 21, 2023</u>	Time: <u>13:22</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 21, 2023</u>	Time: <u>13:35</u>

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>VER-042</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA05081</u>
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below) _____	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: <u>720 mL/min</u>

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)				
LNAPL					Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
Groundwater	26.88	13:22			Volume Per Foot: _____			
DNAPL					Standing Water Column: _____ feet			
Casing Base					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
					Total Volumes Produced: _____ Gallons			
					Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No			

Water Level Serial #: _____	Solinst _____	Water Quality Probe Type and Serial # _____	AquaTroll 600 #867305
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WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	13:22	NA	26.88	NA	11.93	1,020.00	1.27	7.48	16.9	-136.3	Clear
purge	13:25	NA	27.15	NA	11.74	1,025.10	0.64	7.38	8.58	-129.5	Clear
purge	13:28	NA	27.19	NA	11.79	1,020.20	0.8	7.36	6.65	-129.5	Clear
purge	13:31	NA	27.17	NA	11.72	1,015.20	0.73	7.36	5.72	-124	Clear

Stabilized at 13:31. Sampled at 13:35											

NOTES	ABBREVIATIONS
Initial/Potentiometric WL: 26.88 Date: 9/21/2023 Time: 13:35	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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 21, 2023</u>	Time: <u>13:22</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 21, 2023</u>	Time: <u>13:35</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-042</u>	<input type="checkbox"/> Well Development
Casing ID: _____ inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity

NOTES (continued)	ABBREVIATIONS										
<p>Ferrous Iron reading = 3.591 ppm</p>	<table style="font-size: small;"> <tr> <td>Cond. - Actual Conductivity</td> <td>ORP - Oxidation-Reduction Potential</td> </tr> <tr> <td>FT BTOC - Feet Below Top of Casing</td> <td>SEC - Specific Electrical Conductance</td> </tr> <tr> <td>na - Not Applicable</td> <td>SU - Standard Units</td> </tr> <tr> <td>nm - Not Measured</td> <td>Temp - Temperature</td> </tr> <tr> <td></td> <td>°C - Degrees Celcius</td> </tr> </table>	Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential	FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance	na - Not Applicable	SU - Standard Units	nm - Not Measured	Temp - Temperature		°C - Degrees Celcius
Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential										
FT BTOC - Feet Below Top of Casing	SEC - Specific Electrical Conductance										
na - Not Applicable	SU - Standard Units										
nm - Not Measured	Temp - Temperature										
	°C - Degrees Celcius										

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 21, 2023</u>				Time: <u>14:11</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 21, 2023</u>				Time: <u>14:30</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-043</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA05081</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: <u>720 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>16.81</u>	<u>14:11</u>			5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #867305</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>initial</u>	<u>14:11</u>	<u>NA</u>	<u>16.81</u>	<u>NA</u>	<u>12.57</u>	<u>1,153.80</u>	<u>0.52</u>	<u>7.35</u>	<u>3.61</u>	<u>-101.7</u>	<u>Clear</u>
<u>purge</u>	<u>14:14</u>	<u>NA</u>	<u>19.4</u>	<u>NA</u>	<u>12.44</u>	<u>1,171.20</u>	<u>0.25</u>	<u>7.34</u>	<u>20.3</u>	<u>-121.2</u>	<u>Clear</u>
<u>purge</u>	<u>14:17</u>	<u>NA</u>	<u>19.81</u>	<u>NA</u>	<u>12.48</u>	<u>1,167.60</u>	<u>0.22</u>	<u>7.33</u>	<u>15.8</u>	<u>-125.3</u>	<u>Clear</u>
<u>purge</u>	<u>14:20</u>	<u>NA</u>	<u>20.02</u>	<u>NA</u>	<u>12.65</u>	<u>1,163.20</u>	<u>0.43</u>	<u>7.34</u>	<u>13.5</u>	<u>-127.6</u>	<u>Clear</u>
<u>purge</u>	<u>14:23</u>	<u>NA</u>	<u>19.95</u>	<u>NA</u>	<u>12.66</u>	<u>1,162.20</u>	<u>0.28</u>	<u>7.36</u>	<u>9.84</u>	<u>-127.6</u>	<u>Clear</u>
<u>purge</u>	<u>14:26</u>	<u>NA</u>	<u>19.95</u>	<u>NA</u>	<u>12.59</u>	<u>1,159.30</u>	<u>0.3</u>	<u>7.37</u>	<u>7.43</u>	<u>-128.5</u>	<u>Clear</u>
Stabilized at 14:26. Sampled at 14:30											
NOTES									ABBREVIATIONS		
Initial/Potentiometric WL: <u>16.81</u> Date: <u>9/21/2023</u> Time: <u>14:11</u>									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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 21, 2023</u>	Time: <u>14:11</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 21, 2023</u>	Time: <u>14:30</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-043</u>	<input type="checkbox"/> Well Development
Casing ID: _____ inches	<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity

NOTES (continued)	ABBREVIATIONS
<p>Ferrous Iron reading = 4.603 ppm</p>	<p>Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius</p>



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 19, 2023</u>				Time: <u>12:50</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 19, 2023</u>				Time: <u>13:45</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-070S</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA04650</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: <u>400 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons		3 Well Volumes: _____ Gallons			
<u>Groundwater</u>	<u>15.97</u>	<u>12:50</u>				5 Well Volumes: _____ Gallons		10 Well Volumes: _____ Gallons			
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # <u>AquaTroll 600 #887121</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
<u>initial</u>	<u>12:50</u>	<u>NA</u>	<u>15.97</u>	<u>NA</u>	<u>14.12</u>	<u>1,349.60</u>	<u>0.00</u>	<u>6.87</u>	<u>854.11</u>	<u>-14.5</u>	<u>Slightly Turbid</u>
<u>purge</u>	<u>12:51</u>	<u>NA</u>	<u>15.97</u>	<u>NA</u>	<u>13.8</u>	<u>1.350.0</u>	<u>0.00</u>	<u>6.88</u>	<u>861.79</u>	<u>-17</u>	<u>Slightly Turbid</u>
<u>purge</u>	<u>12:56</u>	<u>NA</u>	<u>15.97</u>	<u>NA</u>	<u>13.75</u>	<u>1362.2</u>	<u>0.00</u>	<u>6.96</u>	<u>645.06</u>	<u>14.3</u>	<u>Slightly Turbid</u>
<u>purge</u>	<u>13:01</u>	<u>NA</u>	<u>15.97</u>	<u>NA</u>	<u>13.44</u>	<u>1369.9</u>	<u>0.00</u>	<u>6.99</u>	<u>673.78</u>	<u>34.5</u>	<u>Slightly Turbid</u>
<u>purge</u>	<u>13:06</u>	<u>NA</u>	<u>15.97</u>	<u>NA</u>	<u>12.89</u>	<u>1377.7</u>	<u>0.00</u>	<u>7.00</u>	<u>741.71</u>	<u>48.3</u>	<u>Slightly Turbid</u>
<u>purge</u>	<u>13:07</u>	<u>NA</u>	<u>15.97</u>	<u>NA</u>	<u>12.92</u>	<u>1376.1</u>	<u>0.00</u>	<u>7.00</u>	<u>729.26</u>	<u>50</u>	<u>Slightly Turbid</u>
<u>purge</u>	<u>13:12</u>	<u>NA</u>	<u>15.97</u>	<u>NA</u>	<u>12.76</u>	<u>1378.9</u>	<u>0.00</u>	<u>7.00</u>	<u>707.07</u>	<u>59.3</u>	<u>Slightly Turbid</u>
<u>purge</u>	<u>13:17</u>	<u>NA</u>	<u>15.97</u>	<u>NA</u>	<u>12.71</u>	<u>1375.6</u>	<u>0.00</u>	<u>7.03</u>	<u>710.48</u>	<u>67.1</u>	<u>Slightly Turbid</u>
NOTES									ABBREVIATIONS		
<u>Initial/Potentiometric WL: 15.97 Date: 9/19/2023 Time: 12:50</u>									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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>									
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 19, 2023</u>			Time: <u>12:50</u>						
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 19, 2023</u>			Time: <u>13:45</u>						
WELL INFORMATION				EVENT TYPE											
Well ID: <u>VER-070S</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
purge	13:22	NA	15.97	NA	12.71	1365.9	0.00	7	402.3	73.1	Slightly Turbid				
purge	13:27	NA	15.97	NA	12.64	1366.9	0.00	7	410.62	77.2	Slightly Turbid				
purge	13:32	NA	15.97	NA	12.65	1367.2	0.00	7.03	451.32	80	Slightly Turbid				
purge	13:37	NA	15.97	NA	12.63	1365.9	0.00	7.05	467.03	81.7	Slightly Turbid				
purge	13:42	NA	15.97	NA	12.63	1359.1	0.00	7.07	519.08	82.9	Slightly Turbid				
purge	13:47	NA	15.97	NA	12.67	1347.1	0.00	7.09	572.11	83.5	Slightly Turbid				
Stabilized at 13:42. Sampled at 13:45															
NOTES (continued)								ABBREVIATIONS							
DO reading 0.00. Checked the probe at 12:50 and no issues were observed. Duplicate sample collected @ 13:50. Ferrous Iron Reading = underrange								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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 19, 2023</u>	Time: <u>14:54</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 19, 2023</u>	Time: <u>15:35</u>

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>VER-070D</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA04650</u>
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below)	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: <u>400 mL/min</u>

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)	Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
LNAPL					Volume Per Foot: _____ feet			
Groundwater	30.25	14:54			Standing Water Column: _____ feet			
DNAPL					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
Casing Base					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
				Total Volumes Produced: _____ Gallons				
				Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No				

Water Level Serial #: _____	Solinst	Water Quality Probe Type and Serial # _____	AquaTroll 600 #887121
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WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	14:54	NA	30.25	NA	15.75	3,211.70	3.21	7.16	47.40	-46.3	Clear
purge	14:54	NA	30.25	NA	14.95	3,522.40	1.84	7.18	29.70	-69.4	Clear
purge	14:59	NA	36.95	NA	13.65	3,210	0.67	7.04	29.4	-21.7	Clear
purge	15:04	NA	36.95	NA	13.67	3,087.10	0.54	6.98	25.5	5.7	Clear
purge	15:09	NA	42.1	NA	14.05	2,173.40	2.96	6.97	14.1	32.7	Clear
purge	15:14	NA	42.1	NA	13.69	1,746.00	2.71	6.96	13.4	50.2	Clear
purge	15:19	NA	42.3	NA	13.41	2,614.30	1.7	6.95	13.4	60.5	Clear
purge	15:24	NA	42.3	NA	13.08	2,592.20	0.31	6.94	6.82	53.9	Clear

Notes	Abbreviations
Initial/Potentiometric WL: 30.25 Date: 9/19/2023 Time: 14:54	Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION															
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>									
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 19, 2023</u>			Time: <u>14:54</u>						
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 19, 2023</u>			Time: <u>15:35</u>						
WELL INFORMATION				EVENT TYPE											
Well ID: <u>VER-070D</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling							
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____							
WATER QUALITY INDICATOR PARAMETERS (continued)															
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity				
purge	15:29	NA	45.12	NA	13.07	2,566.90	0.28	66.54	6.82	56.9	Clear				
purge	15:34	NA	45.12	NA	13.29	2,539.10	0.34	103.6	5.48	63.6	Clear				
Stabilized at 15:34. Sampled at 15:35															
NOTES (continued)								ABBREVIATIONS							
Aquatroll turbidity malfunction. Used HACH 2100Q for turbidity readings. Ferrous Iron = underrange								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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 19, 2023</u>				Time: <u>14:50</u>	
Field Personnel: <u>Barley/Kikkert/Tabares</u>						Finish Date: <u>September 19, 2023</u>				Time: _____	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-071S</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: _____					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____			_____			Stabilized Pumping Rate: _____					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>	<u>BTOP</u>					1 Well Volume: _____ Gallons		3 Well Volumes: _____ Gallons			
<u>Groundwater</u>						5 Well Volumes: _____ Gallons		10 Well Volumes: _____ Gallons			
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____ Solinst					Water Quality Probe Type and Serial # _____ AquaTroll 600						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
UNABLE TO PURGE DUE TO INSUFFICIENT WATER IN WELL. Water level below top of pump (BTOP)											
NOTES								ABBREVIATIONS			
Initial/Potentiometric WL: _____ Date: _____ Time: _____								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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 19, 2023</u>	Time: <u>14:50</u>
Field Personnel: <u>Barley/Kikkert/Tabares</u>		Finish Date: <u>September 19, 2023</u>	Time: _____

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-071S</u>	<input type="checkbox"/> Well Development
Casing ID: _____ inches	<input type="checkbox"/> Low-Flow / Low Stress Sampling
	<input type="checkbox"/> Well Volume Approach Sampling
	<input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity

NOTES (continued)	ABBREVIATIONS
	Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION			
Site: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 19, 2023</u>	Time: <u>15:04</u>
Field Personnel: _____		Finish Date: _____	Time: <u>15:24</u>

WELL INFORMATION	EVENT TYPE	PURGE INFORMATION
Well ID: <u>VER-071D</u>	<input type="checkbox"/> Well Development	Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump
Casing ID: _____ Inches	<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling	Bailer Type: <u>n/a</u>
Screen Interval: _____	<input type="checkbox"/> Well Volume Approach Sampling	Pump Type and Serial #: <u>Dedicated Bladder with MP50 FA05081</u>
Borehole Diameter: _____ Inches	<input type="checkbox"/> Other (Specify below) _____	Tube/Pump Intake Depth: _____
Filter Pack Interval: _____		Stabilized Pumping Rate: <u>420 mL/min</u>

DEPTH MEASUREMENTS				VOLUME CALCULATION AND PRODUCTION INFORMATION				
	INITIAL		FINAL					
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)				
LNAPL					Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole			
Groundwater	<u>37.25</u>	<u>15:04</u>			Volume Per Foot: _____			
DNAPL					Standing Water Column: _____ feet			
Casing Base					1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons			
					5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons			
					Total Volumes Produced: _____ Gallons			
					Well Purged Dry? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

Water Level Serial #: _____	Solinst _____	Water Quality Probe Type and Serial # _____	AquaTroll 600 #867305
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WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	15:04	NA	37.25	NA	24.98	3,897.40	2.39	7.17	355.27	122.5	Clear
purge	15:09	NA	BTOP	NA	15.96	3,618.50	1.78	7.14	110.72	144.6	Clear
purge	15:14	NA	BTOP	NA	16.17	3,762.00	1.05	7.11	4,304.00	132.1	Clear
purge	15:19	NA	BTOP	NA	17.93	3,067.90	1.83	7.10	10.33	138	Clear
purge	15:24	NA	BTOP	NA	21.74	4,020.70	3.18	7.10	10.85	139.7	Clear

Well Purged Dry. Water level below top of pump (BTOP) No sample collected

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NOTES	ABBREVIATIONS
Initial/Potentiometric WL: <u>37.25</u> Date: <u>9/19/2023</u> Time: <u>15:04</u>	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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 19, 2023</u>			Time: <u>15:04</u>		
Field Personnel: _____						Finish Date: _____			Time: <u>15:24</u>		
WELL INFORMATION				EVENT TYPE							
Well ID: <u>VER-071D</u>				<input type="checkbox"/> Well Development				<input type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
NOTES (continued)								ABBREVIATIONS			
								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius			



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 25, 2023</u>				Time: <u>15:29</u>	
Field Personnel: <u>Anderson/Tabares</u>						Finish Date: <u>September 25, 2023</u>				Time: <u>16:12</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-101</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____						Stabilized Pumping Rate: <u>300 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>108.55</u>	<u>15:29</u>	<u>110.27</u>	<u>16:12</u>	5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____				Solinst		Water Quality Probe Type and Serial # _____				AquaTroll 600 #887121	
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	15:29	NA	108.55	NA	27.64	838.26	3.54	7.10	961	105.2	Cloudy
purge	15:32	NA	108.55	NA	18.86	842.52	0.57	7.15	Over range	-143.3	Very Cloudy
purge	15:35	NA	108.55	NA	16.69	847.86	0.29	7.18	Over range	-146.5	Very Cloudy
purge	15:38	NA	109.9	NA	16.4	856.02	0.24	7.28	959	-155.8	Very Cloudy
purge	15:41	NA	109.9	NA	18.09	859.34	0.29	7.30	625	-159.8	Very Cloudy
purge	15:44	NA	109.9	NA	18.84	830.09	0.33	7.32	483	-158.7	Very Cloudy
purge	15:47	NA	109.9	NA	19.46	820.99	0.33	7.32	340	-156.2	Very Cloudy
purge	15:50	NA	110.27	NA	19.08	817.10	0.31	7.32	233	-153.5	Very Cloudy
NOTES									ABBREVIATIONS		
Initial/Potentiometric WL: 108.55 Date: 9/25/2023 Time: 15:29									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: <u>Vermilion Power Station</u>		Client: <u>Vistra Energy</u>	
Project Number: <u>1940103649</u>	Task #: _____	Start Date: <u>September 25, 2023</u>	Time: <u>15:29</u>
Field Personnel: <u>Anderson/Tabares</u>		Finish Date: <u>September 25, 2023</u>	Time: <u>16:12</u>

WELL INFORMATION	EVENT TYPE
Well ID: <u>VER-101</u>	<input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling
Casing ID: _____ inches	<input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	15:53	NA	110.27	NA	18.05	779.67	0.31	7.33	205	-150.8	Very Cloudy
purge	15:56	NA	110.27	NA	18.19	798.65	0.3	7.33	140	-149.7	Very Cloudy
purge	15:59	NA	110.27	NA	18.43	788.24	0.31	7.32	102	-147.8	Very Cloudy
purge	16:02	NA	110.27	NA	18.7	766.01	0.32	7.32	87.4	-145.4	Very Cloudy
purge	16:05	NA	110.27	NA	18.76	757.28	0.32	7.31	60.9	-143.5	Very Cloudy
purge	16:09	NA	110.27	NA	18.83	741.70	0.33	7.31		-142.5	Very Cloudy
purge	16:12	NA	110.27	NA	18.93	736.61	0.33	7.3		-140.5	Clear/cloudy

Stabilized at 16:12. Sampled at 16:12

NOTES (continued)	ABBREVIATIONS
Ferrous Iron reading = under range	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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 26, 2023</u>				Time: <u>10:19</u>	
Field Personnel: <u>Anderson/Tabares</u>						Finish Date: <u>September 26, 2023</u>				Time: <u>10:43</u>	
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: <u>VER-103</u>			<input type="checkbox"/> Well Development			Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump					
Casing ID: _____ Inches			<input checked="" type="checkbox"/> Low-Flow / Low-Stress Sampling			Bailer Type: <u>n/a</u>					
Screen Interval: _____			<input type="checkbox"/> Well Volume Approach Sampling			Pump Type and Serial #: <u>Dedicated Bladder with MP50</u>					
Borehole Diameter: _____ Inches			<input type="checkbox"/> Other (Specify below)			Tube/Pump Intake Depth: _____					
Filter Pack Interval: _____						Stabilized Pumping Rate: <u>150 mL/min</u>					
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
		INITIAL		FINAL		Volume Calculation Type: <input type="checkbox"/> Well Casing <input type="checkbox"/> Borehole					
		Depth	Time	Depth	Time	Volume Per Foot: _____					
		FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column: _____ feet					
<u>LNAPL</u>						1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons					
<u>Groundwater</u>		<u>138.00</u>	<u>10:19</u>	<u>141.28</u>	<u>10:43</u>	5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons					
<u>DNAPL</u>						Total Volumes Produced: _____ Gallons					
<u>Casing Base</u>						Well Purged Dry? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Water Level Serial #: _____				Solinst		Water Quality Probe Type and Serial # _____				AquaTroll 600 #887121	
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:19	NA	138	NA	18.84	741.40	8.46	7.12	8.33	24.2	Clear
purge	10:22	NA		NA	17.29	770.80	7.59	7.08		55.4	Clear
purge	10:25	NA		NA	16.89	1,776.70	6.07	7.03	27.6	68.3	Clear
purge	10:28	NA		NA	17.88	1,864.50	5.53	7.03	42.9	72.2	Clear
purge	10:31	NA		NA	18.33	2,057.30	5.42	7.03	43	75.6	Clear
purge	10:34	NA		NA	17.54	2,199.40	5.08	7.03	44.7	79.2	Clear
purge	10:37	NA		NA	17.63	2,272.60	4.91	7.02	44.9	81.9	Clear
purge	10:40	NA		NA	17.67	2,309.50	4.83	7.02	31.6	83.7	Clear
NOTES									ABBREVIATIONS		
Initial/Potentiometric WL: 138.00 Date: 9/26/2023 Time: 10:19									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: <u>Vermilion Power Station</u>						Client: <u>Vistra Energy</u>					
Project Number: <u>1940103649</u>				Task #: _____		Start Date: <u>September 26, 2023</u>			Time: <u>10:19</u>		
Field Personnel: <u>Anderson/Tabares</u>						Finish Date: <u>September 26, 2023</u>			Time: <u>10:43</u>		
WELL INFORMATION				EVENT TYPE							
Well ID: <u>VER-103</u>				<input type="checkbox"/> Well Development				<input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling			
Casing ID: _____ inches				<input type="checkbox"/> Well Volume Approach Sampling				<input type="checkbox"/> Other (Specify): _____			
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Turbidity (NTU)	ORP (mV)	Visual Clarity
purge	10:43	NA	141.28	NA	18.03	2,328.00	4.75	7.03	37.4	85.1	Clear
Stabilized at 10:43. Sampled at 10:43											
NOTES (continued)								ABBREVIATIONS			
Ferrous Iron reading = under range								Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius			



ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
10188 E 2150 North Rd
Danville, Illinois 61834

Generated 11/16/23 12:02:12 Revision 1

JOB DESCRIPTION

VER-23Q3
VER_845_912_RAD

JOB NUMBER

500-239823-2

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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11/16/23 12:02:12
Revision 1

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Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	8
Method Summary	11
Sample Summary	12
Client Sample Results	13
Definitions	46
QC Association	47
QC Sample Results	50
Chronicle	59
Certification Summary	68
Chain of Custody	69
Receipt Checklists	109
Tracer Carrier Summary	116



Job ID: 500-239823-2

Laboratory: Eurofins Chicago

Narrative

**Job Narrative (Comprehensive)
500-239823-2**

Revision

The report being provided is a revision of the original report sent on 11/16/23. The report (revision 1) is being revised due to: Created to supply merged comprehensive report.

Receipt

The samples were received on 9/20/2023 11:18 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 17 coolers at receipt time were 0.4° C, 0.8° C, 1.3° C, 1.5° C, 1.6° C, 1.6° C, 1.8° C, 2.2° C, 2.4° C, 2.4° C, 2.5° C, 2.6° C, 2.7° C, 3.3° C, 4.6° C, 5.1° C and 5.3° C.

Receipt Exceptions

Received RAD bottles for samples 27 & 28 not marked on COC.

The Client SAR requests Programs VER_845_912 (includes RAD), VER_SUP_000 and VER_NPDES_912. COC only marked for VER_SUP_000 and VER_NPDES_912. Updated login to match SAR, since containers were received. - dbn 092223

Received COC for VER_035&DEB but no sample.

RAD

Method 903.0: Radium-226 batch 629216

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_070#S (500-239823-1), VER_070#SDUP (500-239823-2), VER_010 (500-239823-3), VER_010DUP (500-239823-4), VER_070&D (500-239823-5), VER_022 (500-239823-6), VER_022_MS (500-239823-6[MS]), VER_022_MSD (500-239823-6[MSD]), (LCS 160-629216/2-A) and (MB 160-629216/1-A).

Method 903.0: Radium-226 batch 629533

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_016A (500-239823-17), (LCS 160-629533/2-A), (MB 160-629533/1-A), (500-239823-N-26-A) and (500-239823-M-26-A DU).

Methods 903.0, 9315: Radium-226 batch 629712

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_035&D (500-239823-27), VER_035&D-DUP (500-239823-28), (LCS 160-629712/2-A), (MB 160-629712/1-A), (160-51573-B-1-A) and (160-51573-C-1-A DU).

Methods 903.0, 9315: Radium-226 629954

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_FB/EB-1 (500-239823-29), (LCS 160-629954/2-A), (MB 160-629954/1-A), (400-243976-A-4-A) and (400-243976-B-4-A DU).

Methods 903.0, 9315: Radium-226 batch 630055

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_EB-1 (500-239823-35), (LCS 160-630055/2-A), (MB 160-630055/1-A), (480-213107-A-4-A), (480-213107-A-4-B MS) and (480-213107-A-4-C MSD).

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Job ID: 500-239823-2 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 904.0: Radium-228 batch 629220

The LCS recovered at (68%). The limits in our LIMS system at 75-125 reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (63-150%) per method requirements. The LCS passes, no further action is required (LCS 160-629220/2-A).

Method 904.0: Radium-228 batch 629220

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_070#S (500-239823-1), VER_070#SDUP (500-239823-2), VER_010 (500-239823-3), VER_010DUP (500-239823-4), VER_070&D (500-239823-5), VER_022 (500-239823-6), VER_022_MS (500-239823-6[MS]), VER_022_MSD (500-239823-6[MSD]), (LCS 160-629220/2-A) and (MB 160-629220/1-A).

Method 904.0: Radium-228 batch 629534

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_016A (500-239823-17), (LCS 160-629534/2-A), (MB 160-629534/1-A), (500-239823-N-26-B) and (500-239823-M-26-B DU).

Methods 904.0, 9320: Radium-228 batch 629714

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_035&D (500-239823-27), VER_035&D-DUP (500-239823-28), (LCS 160-629714/2-A), (MB 160-629714/1-A), (160-51573-B-1-B) and (160-51573-C-1-B DU).

Methods 904.0, 9320: Radium-228 batch 629957

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_FB/EB-1 (500-239823-29), (LCS 160-629957/2-A), (MB 160-629957/1-A), (400-243976-A-4-B) and (400-243976-B-4-B DU).

Methods 904.0, 9320: Radium-228 batch 630056

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_EB-1 (500-239823-35), (LCS 160-630056/2-A), (MB 160-630056/1-A), (480-213107-A-4-D), (480-213107-A-4-E MS) and (480-213107-A-4-F MSD).

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

Job ID: 500-239823-6

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-239823-6

Receipt

The samples were received on 9/20/2023 11:18 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 17 coolers at receipt time were 0.4° C, 0.8° C, 1.3° C, 1.5° C, 1.6° C, 1.6° C, 1.8° C, 2.2° C, 2.4° C, 2.4° C, 2.5° C, 2.6° C, 2.7° C, 3.3° C, 4.6° C, 5.1° C and 5.3° C.

Receipt Exceptions

Received COC for VER_035&DEB but no sample.

Job ID: 500-239823-6 (Continued)

Laboratory: Eurofins Chicago (Continued)

RAD

Methods 903.0, 9315: Radium-226 batch 629461

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_002 (500-239823-7), VER_002DUP (500-239823-8), VER_004 (500-239823-9), VER_004_MS (500-239823-9[MS]), VER_004_MSD (500-239823-9[MSD]), VER_021 (500-239823-10), VER_036 (500-239823-11), VER_037 (500-239823-12), VER_041 (500-239823-13), (LCS 160-629461/2-A) and (MB 160-629461/1-A).

Method 903.0: Radium-226 batch 629533

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_003R (500-239823-14), VER_005 (500-239823-15), VER_008R (500-239823-16), VER_017 (500-239823-18), VER_020 (500-239823-19), VER_034 (500-239823-20), VER_038 (500-239823-21), VER_040 (500-239823-22), VER_042 (500-239823-23), VER_043 (500-239823-24), VER_EB-01 (500-239823-25), VER_EB-02 (500-239823-26), (LCS 160-629533/2-A), (MB 160-629533/1-A) and (500-239823-M-26-A DU).

Methods 903.0, 9315: Radium-226 629954

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_FB/EB-1 (500-239823-29), VER_101& (500-239823-30), (LCS 160-629954/2-A), (MB 160-629954/1-A), (400-243976-A-4-A) and (400-243976-B-4-A DU).

Methods 903.0, 9315: Radium-226 batch 630055

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_103& (500-239823-33), VER_EB-1 (500-239823-35), (LCS 160-630055/2-A), (MB 160-630055/1-A), (480-213107-A-4-A), (480-213107-A-4-B MS) and (480-213107-A-4-C MSD).

Methods 904.0, 9320: Radium-228 batch 629462

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: VER_041 (500-239823-13). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 batch 629462

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_002 (500-239823-7), VER_002DUP (500-239823-8), VER_004 (500-239823-9), VER_004_MS (500-239823-9[MS]), VER_004_MSD (500-239823-9[MSD]), VER_021 (500-239823-10), VER_036 (500-239823-11), VER_037 (500-239823-12), VER_041 (500-239823-13), (LCS 160-629462/2-A) and (MB 160-629462/1-A).

Method 904.0: Radium-228 batch 629534

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_003R (500-239823-14), VER_005 (500-239823-15), VER_008R (500-239823-16), VER_017 (500-239823-18), VER_020 (500-239823-19), VER_034 (500-239823-20), VER_038 (500-239823-21), VER_040 (500-239823-22), VER_042 (500-239823-23), VER_043 (500-239823-24), VER_EB-01 (500-239823-25), VER_EB-02 (500-239823-26), (LCS 160-629534/2-A), (MB 160-629534/1-A) and (500-239823-M-26-B DU).

Methods 904.0, 9320: Radium-228 batch 629957

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Job ID: 500-239823-6 (Continued)

Laboratory: Eurofins Chicago (Continued)

interferences: VER_101& (500-239823-30). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 batch 629957

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_FB/EB-1 (500-239823-29), VER_101& (500-239823-30), (LCS 160-629957/2-A), (MB 160-629957/1-A), (400-243976-A-4-B) and (400-243976-B-4-B DU).

Methods 904.0, 9320: Radium-228 batch 630056

The detection goal was not met for the following sample(s). Sample was prepped at a reduced volume due to the presence of matrix interferences: VER_103& (500-239823-33). Analytical results are reported with the detection limit achieved.

Methods 904.0, 9320: Radium-228 batch 630056

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_103& (500-239823-33), VER_EB-1 (500-239823-35), (LCS 160-630056/2-A), (MB 160-630056/1-A), (480-213107-A-4-D), (480-213107-A-4-E MS) and (480-213107-A-4-F MSD).

Method PrecSep-21: Radium-226 Prep Batch 160-629954

The following sample(s) were prepared at a reduced aliquot due to matrix. The sample 310-265234-1 was yellow. The samples 500-239823-30 and 380-63993-5 were slightly cloudy. The rest of the selected samples were cloudy.

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

Job ID: 500-239823-8

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-239823-8

Receipt

The samples were received on 9/20/2023 11:18 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 17 coolers at receipt time were 0.4° C, 0.8° C, 1.3° C, 1.5° C, 1.6° C, 1.6° C, 1.8° C, 2.2° C, 2.4° C, 2.4° C, 2.5° C, 2.6° C, 2.7° C, 3.3° C, 4.6° C, 5.1° C and 5.3° C.

RAD

Method 903.0: Radium-226 batch 630506

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_NED1 (500-239823-34), (LCS 160-630506/2-A), (MB 160-630506/1-A), (480-213107-E-4-H), (480-213107-F-4-D MS) and (480-213107-F-4-E MSD).

Method 904.0: Radium-228 batch 630512

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

VER_NED1 (500-239823-34), (LCS 160-630512/2-A), (MB 160-630512/1-A), (480-213107-E-4-I), (480-213107-F-4-F MS) and (480-213107-F-4-G MSD).

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

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Detection Summary

Client Sample ID: VER_070#S	Lab Sample ID: 500-239823-1
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_070#SDUP	Lab Sample ID: 500-239823-2
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_010	Lab Sample ID: 500-239823-3
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_010DUP	Lab Sample ID: 500-239823-4
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_070&D	Lab Sample ID: 500-239823-5
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_022	Lab Sample ID: 500-239823-6
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_002	Lab Sample ID: 500-239823-7
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_002DUP	Lab Sample ID: 500-239823-8
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_004	Lab Sample ID: 500-239823-9
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_021	Lab Sample ID: 500-239823-10
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_036	Lab Sample ID: 500-239823-11
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_037	Lab Sample ID: 500-239823-12
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_041	Lab Sample ID: 500-239823-13
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_003R	Lab Sample ID: 500-239823-14
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_005	Lab Sample ID: 500-239823-15
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_008R	Lab Sample ID: 500-239823-16
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Detection Summary

Client Sample ID: VER_016A	Lab Sample ID: 500-239823-17
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_017	Lab Sample ID: 500-239823-18
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_020	Lab Sample ID: 500-239823-19
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_034	Lab Sample ID: 500-239823-20
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_038	Lab Sample ID: 500-239823-21
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_040	Lab Sample ID: 500-239823-22
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_042	Lab Sample ID: 500-239823-23
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_043	Lab Sample ID: 500-239823-24
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_EB-01	Lab Sample ID: 500-239823-25
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_EB-02	Lab Sample ID: 500-239823-26
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_035&D	Lab Sample ID: 500-239823-27
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_035&D-DUP	Lab Sample ID: 500-239823-28
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_FB/EB-1	Lab Sample ID: 500-239823-29
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_101&	Lab Sample ID: 500-239823-30
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_103&	Lab Sample ID: 500-239823-33
<input type="checkbox"/> No Detections.	
Client Sample ID: VER_NED1	Lab Sample ID: 500-239823-34
<input type="checkbox"/> No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Detection Summary

Client Sample ID: VER_EB-1

Lab Sample ID: 500-239823-35

No Detections.

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

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_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-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-239823-1	VER_070#S	Water	09/19/23 13:45	09/20/23 11:18
500-239823-2	VER_070#SDUP	Water	09/19/23 13:50	09/20/23 11:18
500-239823-3	VER_010	Water	09/19/23 10:15	09/20/23 11:18
500-239823-4	VER_010DUP	Water	09/19/23 10:20	09/20/23 11:18
500-239823-5	VER_070&D	Water	09/19/23 15:35	09/20/23 11:18
500-239823-6	VER_022	Water	09/19/23 10:20	09/20/23 11:18
500-239823-7	VER_002	Water	09/20/23 14:11	09/21/23 11:13
500-239823-8	VER_002DUP	Water	09/20/23 14:20	09/21/23 11:13
500-239823-9	VER_004	Water	09/20/23 14:50	09/21/23 11:13
500-239823-10	VER_021	Water	09/20/23 10:20	09/21/23 11:13
500-239823-11	VER_036	Water	09/20/23 10:47	09/21/23 11:13
500-239823-12	VER_037	Water	09/20/23 12:31	09/21/23 11:13
500-239823-13	VER_041	Water	09/20/23 12:35	09/21/23 11:13
500-239823-14	VER_003R	Water	09/21/23 08:50	09/22/23 11:09
500-239823-15	VER_005	Water	09/21/23 10:51	09/22/23 11:09
500-239823-16	VER_008R	Water	09/21/23 09:30	09/22/23 11:09
500-239823-17	VER_016A	Water	09/21/23 16:10	09/22/23 11:09
500-239823-18	VER_017	Water	09/21/23 08:51	09/22/23 11:09
500-239823-19	VER_020	Water	09/21/23 13:07	09/22/23 11:09
500-239823-20	VER_034	Water	09/21/23 14:46	09/22/23 11:09
500-239823-21	VER_038	Water	09/21/23 15:45	09/22/23 11:09
500-239823-22	VER_040	Water	09/21/23 14:30	09/22/23 11:09
500-239823-23	VER_042	Water	09/21/23 13:35	09/22/23 11:09
500-239823-24	VER_043	Water	09/21/23 14:30	09/22/23 11:09
500-239823-25	VER_EB-01	Water	09/21/23 08:40	09/22/23 11:09
500-239823-26	VER_EB-02	Water	09/22/23 07:30	09/22/23 14:10
500-239823-27	VER_035&D	Water	09/22/23 09:35	09/22/23 14:10
500-239823-28	VER_035&D-DUP	Water	09/22/23 09:40	09/22/23 14:10
500-239823-29	VER_FB/EB-1	Water	09/25/23 18:00	09/26/23 11:13
500-239823-30	VER_101&	Water	09/25/23 16:12	09/26/23 11:13
500-239823-33	VER_103&	Water	09/26/23 10:43	09/27/23 11:31
500-239823-34	VER_NED1	Water	09/26/23 13:36	09/27/23 11:31
500-239823-35	VER_EB-1	Water	09/26/23 17:00	09/27/23 11:31



Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_070#S

Lab Sample ID: 500-239823-1

Date Collected: 09/19/23 13:45

Matrix: Water

Date Received: 09/20/23 11:18

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	0.0780	U	0.0677	0.0680	1.00	0.0975	pCi/L	09/22/23 10:09	10/17/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					09/22/23 10:09	10/17/23 09:40	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	0.431	U	0.361	0.363	1.00	0.564	pCi/L	09/22/23 10:21	10/11/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.5		30 - 110					09/22/23 10:21	10/11/23 11:22	1
Y Carrier	80.0		30 - 110					09/22/23 10:21	10/11/23 11:22	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	0.509	U	0.367	0.369	5.00	0.564	pCi/L		10/18/23 15:04	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_070#SDUP

Lab Sample ID: 500-239823-2

Date Collected: 09/19/23 13:50

Matrix: Water

Date Received: 09/20/23 11:18

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	0.0987	U	0.0814	0.0819	1.00	0.117	pCi/L	09/22/23 10:09	10/17/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		30 - 110					09/22/23 10:09	10/17/23 09:40	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	1.32		0.520	0.534	1.00	0.679	pCi/L	09/22/23 10:21	10/11/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.6		30 - 110					09/22/23 10:21	10/11/23 11:22	1
Y Carrier	77.8		30 - 110					09/22/23 10:21	10/11/23 11:22	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	1.42		0.526	0.540	5.00	0.679	pCi/L		10/18/23 15:04	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_010

Lab Sample ID: 500-239823-3

Date Collected: 09/19/23 10:15

Matrix: Water

Date Received: 09/20/23 11:18

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	0.180		0.103	0.104	1.00	0.132	pCi/L	09/22/23 10:09	10/17/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					09/22/23 10:09	10/17/23 09:40	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	0.756		0.374	0.380	1.00	0.499	pCi/L	09/22/23 10:21	10/11/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					09/22/23 10:21	10/11/23 11:22	1
Y Carrier	81.1		30 - 110					09/22/23 10:21	10/11/23 11:22	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	0.936		0.388	0.394	5.00	0.499	pCi/L		10/18/23 15:04	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_010DUP

Lab Sample ID: 500-239823-4

Date Collected: 09/19/23 10:20

Matrix: Water

Date Received: 09/20/23 11:18

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	0.199		0.103	0.105	1.00	0.124	pCi/L	09/22/23 10:09	10/17/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					09/22/23 10:09	10/17/23 09:40	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	-0.0180	U	0.324	0.324	1.00	0.615	pCi/L	09/22/23 10:21	10/11/23 11:22	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.1		30 - 110					09/22/23 10:21	10/11/23 11:22	1
Y Carrier	75.5		30 - 110					09/22/23 10:21	10/11/23 11:22	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	0.199	U	0.340	0.341	5.00	0.615	pCi/L		10/18/23 15:04	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_070&D

Lab Sample ID: 500-239823-5

Date Collected: 09/19/23 15:35

Matrix: Water

Date Received: 09/20/23 11:18

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	0.554		0.170	0.177	1.00	0.134	pCi/L	09/22/23 10:09	10/17/23 09:40	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					09/22/23 10:09	10/17/23 09:40	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	1.54		0.601	0.617	1.00	0.767	pCi/L	09/22/23 10:21	10/11/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					09/22/23 10:21	10/11/23 11:24	1
Y Carrier	75.9		30 - 110					09/22/23 10:21	10/11/23 11:24	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		0.625	0.642	5.00	0.767	pCi/L		10/18/23 15:04	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_022

Lab Sample ID: 500-239823-6

Date Collected: 09/19/23 10:20

Matrix: Water

Date Received: 09/20/23 11:18

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	0.443		0.137	0.143	1.00	0.124	pCi/L	09/22/23 10:09	10/17/23 09:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					09/22/23 10:09	10/17/23 09:45	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	3.91		0.704	0.791	1.00	0.595	pCi/L	09/22/23 10:21	10/11/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.2		30 - 110					09/22/23 10:21	10/11/23 11:24	1
Y Carrier	70.7		30 - 110					09/22/23 10:21	10/11/23 11:24	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	4.36		0.717	0.804	5.00	0.595	pCi/L		10/18/23 15:04	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_002

Lab Sample ID: 500-239823-7

Date Collected: 09/20/23 14:11

Matrix: Water

Date Received: 09/21/23 11:13

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	0.274		0.146	0.148	1.00	0.177	pCi/L	09/25/23 11:17	10/17/23 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		30 - 110					09/25/23 11:17	10/17/23 14:02	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	1.16		0.575	0.585	1.00	0.777	pCi/L	09/25/23 11:21	10/12/23 11:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.2		30 - 110					09/25/23 11:21	10/12/23 11:08	1
Y Carrier	76.6		30 - 110					09/25/23 11:21	10/12/23 11:08	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	1.43		0.593	0.603	5.00	0.777	pCi/L		10/18/23 16:15	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_002DUP

Lab Sample ID: 500-239823-8

Date Collected: 09/20/23 14:20

Matrix: Water

Date Received: 09/21/23 11:13

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	0.126	U	0.134	0.134	1.00	0.214	pCi/L	09/25/23 11:17	10/17/23 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					09/25/23 11:17	10/17/23 14:02	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	0.881		0.549	0.555	1.00	0.806	pCi/L	09/25/23 11:21	10/12/23 11:08	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					09/25/23 11:21	10/12/23 11:08	1
Y Carrier	76.6		30 - 110					09/25/23 11:21	10/12/23 11:08	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	1.01		0.565	0.571	5.00	0.806	pCi/L		10/18/23 16:15	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_004

Lab Sample ID: 500-239823-9

Date Collected: 09/20/23 14:50

Matrix: Water

Date Received: 09/21/23 11:13

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	0.748		0.180	0.192	1.00	0.129	pCi/L	09/25/23 11:17	10/17/23 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					09/25/23 11:17	10/17/23 14:02	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	0.477	U	0.356	0.359	1.00	0.541	pCi/L	09/25/23 11:21	10/12/23 11:07	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.3		30 - 110					09/25/23 11:21	10/12/23 11:07	1
Y Carrier	80.0		30 - 110					09/25/23 11:21	10/12/23 11:07	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	1.23		0.399	0.407	5.00	0.541	pCi/L		10/18/23 16:15	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_021

Lab Sample ID: 500-239823-10

Date Collected: 09/20/23 10:20

Matrix: Water

Date Received: 09/21/23 11:13

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	0.144	U	0.154	0.154	1.00	0.247	pCi/L	09/25/23 11:17	10/17/23 14:02	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					09/25/23 11:17	10/17/23 14:02	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	1.42		0.607	0.621	1.00	0.800	pCi/L	09/25/23 11:21	10/12/23 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.6		30 - 110					09/25/23 11:21	10/12/23 11:11	1
Y Carrier	75.9		30 - 110					09/25/23 11:21	10/12/23 11:11	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	1.56		0.626	0.640	5.00	0.800	pCi/L		10/18/23 16:15	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_036

Lab Sample ID: 500-239823-11

Date Collected: 09/20/23 10:47

Matrix: Water

Date Received: 09/21/23 11:13

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	0.286		0.128	0.130	1.00	0.155	pCi/L	09/25/23 11:17	10/17/23 14:04	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					09/25/23 11:17	10/17/23 14:04	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	1.27		0.444	0.459	1.00	0.527	pCi/L	09/25/23 11:21	10/12/23 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					09/25/23 11:21	10/12/23 11:11	1
Y Carrier	79.3		30 - 110					09/25/23 11:21	10/12/23 11:11	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	1.55		0.462	0.477	5.00	0.527	pCi/L		10/18/23 16:15	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_037

Lab Sample ID: 500-239823-12

Date Collected: 09/20/23 12:31

Matrix: Water

Date Received: 09/21/23 11:13

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	0.727		0.217	0.227	1.00	0.206	pCi/L	09/25/23 11:17	10/17/23 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		30 - 110					09/25/23 11:17	10/17/23 14:05	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	1.37		0.572	0.586	1.00	0.730	pCi/L	09/25/23 11:21	10/12/23 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		30 - 110					09/25/23 11:21	10/12/23 11:11	1
Y Carrier	79.3		30 - 110					09/25/23 11:21	10/12/23 11:11	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		0.612	0.628	5.00	0.730	pCi/L		10/18/23 16:15	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_041

Lab Sample ID: 500-239823-13

Date Collected: 09/20/23 12:35

Matrix: Water

Date Received: 09/21/23 11:13

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	0.468		0.188	0.193	1.00	0.204	pCi/L	09/25/23 11:17	10/17/23 14:05	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		30 - 110					09/25/23 11:17	10/17/23 14:05	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	3.22	G	0.886	0.935	1.00	1.01	pCi/L	09/25/23 11:21	10/12/23 11:11	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	73.6		30 - 110					09/25/23 11:21	10/12/23 11:11	1
Y Carrier	78.5		30 - 110					09/25/23 11:21	10/12/23 11:11	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	3.69		0.906	0.955	5.00	1.01	pCi/L		10/18/23 16:15	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_003R

Lab Sample ID: 500-239823-14

Date Collected: 09/21/23 08:50

Matrix: Water

Date Received: 09/22/23 11:09

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	0.293		0.192	0.194	1.00	0.274	pCi/L	09/26/23 09:51	10/18/23 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.9		30 - 110					09/26/23 09:51	10/18/23 13:55	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	1.44		0.690	0.702	1.00	0.939	pCi/L	09/26/23 09:54	10/12/23 11:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	71.9		30 - 110					09/26/23 09:54	10/12/23 11:25	1
Y Carrier	79.3		30 - 110					09/26/23 09:54	10/12/23 11:25	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	1.74		0.716	0.728	5.00	0.939	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_005

Lab Sample ID: 500-239823-15

Date Collected: 09/21/23 10:51

Matrix: Water

Date Received: 09/22/23 11:09

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	0.0651	U	0.0988	0.0990	1.00	0.169	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.4		30 - 110					09/26/23 09:51	10/18/23 13:54	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	0.635	U	0.510	0.513	1.00	0.794	pCi/L	09/26/23 09:54	10/12/23 11:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	69.4		30 - 110					09/26/23 09:54	10/12/23 11:25	1
Y Carrier	80.4		30 - 110					09/26/23 09:54	10/12/23 11:25	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	0.701	U	0.519	0.522	5.00	0.794	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_008R

Lab Sample ID: 500-239823-16

Date Collected: 09/21/23 09:30

Matrix: Water

Date Received: 09/22/23 11:09

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	0.201		0.113	0.115	1.00	0.151	pCi/L	09/26/23 09:51	10/18/23 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		30 - 110					09/26/23 09:51	10/18/23 13:55	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	1.25		0.470	0.484	1.00	0.595	pCi/L	09/26/23 09:54	10/12/23 11:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.4		30 - 110					09/26/23 09:54	10/12/23 11:25	1
Y Carrier	83.4		30 - 110					09/26/23 09:54	10/12/23 11:25	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	1.46		0.483	0.497	5.00	0.595	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_016A

Lab Sample ID: 500-239823-17

Date Collected: 09/21/23 16:10

Matrix: Water

Date Received: 09/22/23 11:09

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	0.700		0.213	0.222	1.00	0.206	pCi/L	09/26/23 09:51	10/18/23 13:55	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.0		30 - 110					09/26/23 09:51	10/18/23 13:55	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	0.890		0.589	0.595	1.00	0.876	pCi/L	09/26/23 09:54	10/12/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	79.0		30 - 110					09/26/23 09:54	10/12/23 11:24	1
Y Carrier	80.0		30 - 110					09/26/23 09:54	10/12/23 11:24	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	1.59		0.626	0.635	5.00	0.876	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_017

Lab Sample ID: 500-239823-18

Date Collected: 09/21/23 08:51

Matrix: Water

Date Received: 09/22/23 11:09

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	0.0904	U	0.0862	0.0866	1.00	0.133	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.2		30 - 110					09/26/23 09:51	10/18/23 13:54	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	0.316	0.316	1.00	0.553	pCi/L	09/26/23 09:54	10/12/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.2		30 - 110					09/26/23 09:54	10/12/23 11:24	1
Y Carrier	83.4		30 - 110					09/26/23 09:54	10/12/23 11:24	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	0.240	U	0.328	0.328	5.00	0.553	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_020

Lab Sample ID: 500-239823-19

Date Collected: 09/21/23 13:07

Matrix: Water

Date Received: 09/22/23 11:09

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	0.113	U	0.100	0.101	1.00	0.152	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		30 - 110					09/26/23 09:51	10/18/23 13:54	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	0.691		0.455	0.460	1.00	0.674	pCi/L	09/26/23 09:54	10/12/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	75.1		30 - 110					09/26/23 09:54	10/12/23 11:24	1
Y Carrier	77.4		30 - 110					09/26/23 09:54	10/12/23 11:24	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	0.804		0.466	0.471	5.00	0.674	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_034

Lab Sample ID: 500-239823-20

Date Collected: 09/21/23 14:46

Matrix: Water

Date Received: 09/22/23 11:09

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	0.371		0.162	0.166	1.00	0.191	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					09/26/23 09:51	10/18/23 13:54	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	0.886		0.559	0.565	1.00	0.825	pCi/L	09/26/23 09:54	10/12/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	86.1		30 - 110					09/26/23 09:54	10/12/23 11:24	1
Y Carrier	78.9		30 - 110					09/26/23 09:54	10/12/23 11:24	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	1.26		0.582	0.589	5.00	0.825	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_038

Lab Sample ID: 500-239823-21

Date Collected: 09/21/23 15:45

Matrix: Water

Date Received: 09/22/23 11:09

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	0.531		0.195	0.201	1.00	0.205	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.3		30 - 110					09/26/23 09:51	10/18/23 13:54	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	0.873	U	0.608	0.614	1.00	0.917	pCi/L	09/26/23 09:54	10/12/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	74.3		30 - 110					09/26/23 09:54	10/12/23 11:24	1
Y Carrier	79.6		30 - 110					09/26/23 09:54	10/12/23 11:24	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	1.40		0.639	0.646	5.00	0.917	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_040

Lab Sample ID: 500-239823-22

Date Collected: 09/21/23 14:30

Matrix: Water

Date Received: 09/22/23 11:09

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	0.157		0.0884	0.0896	1.00	0.115	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		30 - 110					09/26/23 09:51	10/18/23 13:54	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	1.58		0.471	0.493	1.00	0.555	pCi/L	09/26/23 09:54	10/12/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		30 - 110					09/26/23 09:54	10/12/23 11:24	1
Y Carrier	86.0		30 - 110					09/26/23 09:54	10/12/23 11:24	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	1.74		0.479	0.501	5.00	0.555	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_042

Lab Sample ID: 500-239823-23

Date Collected: 09/21/23 13:35

Matrix: Water

Date Received: 09/22/23 11:09

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	0.166		0.0991	0.100	1.00	0.131	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		30 - 110					09/26/23 09:51	10/18/23 13:54	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	1.21		0.526	0.537	1.00	0.730	pCi/L	09/26/23 09:54	10/12/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.3		30 - 110					09/26/23 09:54	10/12/23 11:24	1
Y Carrier	78.9		30 - 110					09/26/23 09:54	10/12/23 11:24	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	1.37		0.535	0.546	5.00	0.730	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_043

Lab Sample ID: 500-239823-24

Date Collected: 09/21/23 14:30

Matrix: Water

Date Received: 09/22/23 11:09

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	0.378		0.136	0.140	1.00	0.142	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					09/26/23 09:51	10/18/23 13:54	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	0.520	U	0.396	0.399	1.00	0.605	pCi/L	09/26/23 09:54	10/12/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	80.7		30 - 110					09/26/23 09:54	10/12/23 11:24	1
Y Carrier	81.9		30 - 110					09/26/23 09:54	10/12/23 11:24	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	0.898		0.419	0.423	5.00	0.605	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_EB-01

Lab Sample ID: 500-239823-25

Date Collected: 09/21/23 08:40

Matrix: Water

Date Received: 09/22/23 11:09

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	0.0691	U	0.0921	0.0923	1.00	0.154	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.0		30 - 110					09/26/23 09:51	10/18/23 13:54	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	0.678		0.422	0.427	1.00	0.617	pCi/L	09/26/23 09:54	10/12/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	77.0		30 - 110					09/26/23 09:54	10/12/23 11:24	1
Y Carrier	83.4		30 - 110					09/26/23 09:54	10/12/23 11:24	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	0.747		0.432	0.437	5.00	0.617	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_EB-02

Lab Sample ID: 500-239823-26

Date Collected: 09/22/23 07:30

Matrix: Water

Date Received: 09/22/23 14:10

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	-0.0322	U	0.0614	0.0615	1.00	0.141	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					09/26/23 09:51	10/18/23 13:54	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	0.119	U	0.319	0.319	1.00	0.562	pCi/L	09/26/23 09:54	10/12/23 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.7		30 - 110					09/26/23 09:54	10/12/23 11:24	1
Y Carrier	87.1		30 - 110					09/26/23 09:54	10/12/23 11:24	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	0.119	U	0.325	0.325	5.00	0.562	pCi/L		10/20/23 16:59	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_035&D

Lab Sample ID: 500-239823-27

Date Collected: 09/22/23 09:35

Matrix: Water

Date Received: 09/22/23 14:10

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	0.0765	U	0.0926	0.0928	1.00	0.152	pCi/L	09/27/23 10:44	10/19/23 09:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					09/27/23 10:44	10/19/23 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	0.164	U	0.394	0.394	1.00	0.701	pCi/L	09/27/23 10:49	10/13/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.9		30 - 110					09/27/23 10:49	10/13/23 12:24	1
Y Carrier	70.3		30 - 110					09/27/23 10:49	10/13/23 12:24	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	0.240	U	0.405	0.405	5.00	0.701	pCi/L		10/20/23 17:51	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_035&D-DUP

Lab Sample ID: 500-239823-28

Date Collected: 09/22/23 09:40

Matrix: Water

Date Received: 09/22/23 14:10

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	0.255		0.149	0.150	1.00	0.195	pCi/L	09/27/23 10:44	10/19/23 09:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					09/27/23 10:44	10/19/23 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	0.385	U	0.402	0.403	1.00	0.649	pCi/L	09/27/23 10:49	10/13/23 12:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.0		30 - 110					09/27/23 10:49	10/13/23 12:24	1
Y Carrier	83.4		30 - 110					09/27/23 10:49	10/13/23 12:24	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	0.640	U	0.429	0.430	5.00	0.649	pCi/L		10/20/23 17:51	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_FB/EB-1

Lab Sample ID: 500-239823-29

Date Collected: 09/25/23 18:00

Matrix: Water

Date Received: 09/26/23 11:13

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	-0.0452	U	0.0780	0.0781	1.00	0.181	pCi/L	09/28/23 10:53	10/20/23 16:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					09/28/23 10:53	10/20/23 16:48	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	2.88		0.626	0.680	1.00	0.611	pCi/L	09/28/23 11:02	10/17/23 11:44	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					09/28/23 11:02	10/17/23 11:44	1
Y Carrier	76.6		30 - 110					09/28/23 11:02	10/17/23 11:44	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	2.88		0.631	0.684	5.00	0.611	pCi/L		10/24/23 12:27	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_101&

Lab Sample ID: 500-239823-30

Date Collected: 09/25/23 16:12

Matrix: Water

Date Received: 09/26/23 11:13

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	0.371		0.190	0.193	1.00	0.237	pCi/L	09/28/23 10:53	10/20/23 16:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		30 - 110					09/28/23 10:53	10/20/23 16:49	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	2.72	G	0.857	0.893	1.00	1.03	pCi/L	09/28/23 11:02	10/17/23 11:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	76.8		30 - 110					09/28/23 11:02	10/17/23 11:45	1
Y Carrier	75.5		30 - 110					09/28/23 11:02	10/17/23 11:45	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	3.09		0.878	0.914	5.00	1.03	pCi/L		10/24/23 12:27	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_103&

Lab Sample ID: 500-239823-33

Date Collected: 09/26/23 10:43

Matrix: Water

Date Received: 09/27/23 11:31

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	0.184	U	0.137	0.138	1.00	0.190	pCi/L	09/29/23 10:43	10/23/23 21:14	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		30 - 110					09/29/23 10:43	10/23/23 21:14	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	0.692	0.699	1.00	1.03	pCi/L	09/29/23 10:47	10/18/23 16:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.7		30 - 110					09/29/23 10:47	10/18/23 16:46	1
Y Carrier	81.1		30 - 110					09/29/23 10:47	10/18/23 16:46	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	1.23		0.705	0.712	5.00	1.03	pCi/L		10/24/23 13:23	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_NED1

Lab Sample ID: 500-239823-34

Date Collected: 09/26/23 13:36

Matrix: Water

Date Received: 09/27/23 11:31

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	0.151		0.108	0.109	1.00	0.151	pCi/L	10/03/23 09:55	10/25/23 07:10	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					10/03/23 09:55	10/25/23 07:10	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	0.550	U	0.410	0.413	1.00	0.614	pCi/L	10/03/23 10:14	10/18/23 16:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.2		30 - 110					10/03/23 10:14	10/18/23 16:24	1
Y Carrier	80.7		30 - 110					10/03/23 10:14	10/18/23 16:24	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	0.701		0.424	0.427	5.00	0.614	pCi/L		10/25/23 16:18	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Client Sample ID: VER_EB-1
Date Collected: 09/26/23 17:00
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-35
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	0.0174	U	0.0603	0.0603	1.00	0.120	pCi/L	09/29/23 10:43	10/23/23 21:18	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		30 - 110					09/29/23 10:43	10/23/23 21:18	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	0.269	U	0.298	0.299	1.00	0.485	pCi/L	09/29/23 10:47	10/18/23 16:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.8		30 - 110					09/29/23 10:47	10/18/23 16:47	1
Y Carrier	81.9		30 - 110					09/29/23 10:47	10/18/23 16:47	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	0.286	U	0.304	0.305	5.00	0.485	pCi/L		10/24/23 13:23	1



Definitions/Glossary

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

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Rad

Prep Batch: 629216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total/NA	Water	PrecSep-21	
500-239823-2	VER_070#SDUP	Total/NA	Water	PrecSep-21	
500-239823-3	VER_010	Total/NA	Water	PrecSep-21	
500-239823-4	VER_010DUP	Total/NA	Water	PrecSep-21	
500-239823-5	VER_070&D	Total/NA	Water	PrecSep-21	
500-239823-6	VER_022	Total/NA	Water	PrecSep-21	
MB 160-629216/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629216/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-239823-6 MS	VER_022_MS	Total/NA	Water	PrecSep-21	
500-239823-6 MSD	VER_022_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 629220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-1	VER_070#S	Total/NA	Water	PrecSep_0	
500-239823-2	VER_070#SDUP	Total/NA	Water	PrecSep_0	
500-239823-3	VER_010	Total/NA	Water	PrecSep_0	
500-239823-4	VER_010DUP	Total/NA	Water	PrecSep_0	
500-239823-5	VER_070&D	Total/NA	Water	PrecSep_0	
500-239823-6	VER_022	Total/NA	Water	PrecSep_0	
MB 160-629220/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629220/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-239823-6 MS	VER_022_MS	Total/NA	Water	PrecSep_0	
500-239823-6 MSD	VER_022_MSD	Total/NA	Water	PrecSep_0	

Prep Batch: 629461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total/NA	Water	PrecSep-21	
500-239823-8	VER_002DUP	Total/NA	Water	PrecSep-21	
500-239823-9	VER_004	Total/NA	Water	PrecSep-21	
500-239823-10	VER_021	Total/NA	Water	PrecSep-21	
500-239823-11	VER_036	Total/NA	Water	PrecSep-21	
500-239823-12	VER_037	Total/NA	Water	PrecSep-21	
500-239823-13	VER_041	Total/NA	Water	PrecSep-21	
MB 160-629461/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629461/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-239823-9 MS	VER_004_MS	Total/NA	Water	PrecSep-21	
500-239823-9 MSD	VER_004_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 629462

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-7	VER_002	Total/NA	Water	PrecSep_0	
500-239823-8	VER_002DUP	Total/NA	Water	PrecSep_0	
500-239823-9	VER_004	Total/NA	Water	PrecSep_0	
500-239823-10	VER_021	Total/NA	Water	PrecSep_0	
500-239823-11	VER_036	Total/NA	Water	PrecSep_0	
500-239823-12	VER_037	Total/NA	Water	PrecSep_0	
500-239823-13	VER_041	Total/NA	Water	PrecSep_0	
MB 160-629462/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629462/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-239823-9 MS	VER_004_MS	Total/NA	Water	PrecSep_0	
500-239823-9 MSD	VER_004_MSD	Total/NA	Water	PrecSep_0	

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Rad

Prep Batch: 629533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-14	VER_003R	Total/NA	Water	PrecSep-21	
500-239823-15	VER_005	Total/NA	Water	PrecSep-21	
500-239823-16	VER_008R	Total/NA	Water	PrecSep-21	
500-239823-17	VER_016A	Total/NA	Water	PrecSep-21	
500-239823-18	VER_017	Total/NA	Water	PrecSep-21	
500-239823-19	VER_020	Total/NA	Water	PrecSep-21	
500-239823-20	VER_034	Total/NA	Water	PrecSep-21	
500-239823-21	VER_038	Total/NA	Water	PrecSep-21	
500-239823-22	VER_040	Total/NA	Water	PrecSep-21	
500-239823-23	VER_042	Total/NA	Water	PrecSep-21	
500-239823-24	VER_043	Total/NA	Water	PrecSep-21	
500-239823-25	VER_EB-01	Total/NA	Water	PrecSep-21	
500-239823-26	VER_EB-02	Total/NA	Water	PrecSep-21	
MB 160-629533/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629533/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-239823-26 DU	VER_EB-02	Total/NA	Water	PrecSep-21	

Prep Batch: 629534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-14	VER_003R	Total/NA	Water	PrecSep_0	
500-239823-15	VER_005	Total/NA	Water	PrecSep_0	
500-239823-16	VER_008R	Total/NA	Water	PrecSep_0	
500-239823-17	VER_016A	Total/NA	Water	PrecSep_0	
500-239823-18	VER_017	Total/NA	Water	PrecSep_0	
500-239823-19	VER_020	Total/NA	Water	PrecSep_0	
500-239823-20	VER_034	Total/NA	Water	PrecSep_0	
500-239823-21	VER_038	Total/NA	Water	PrecSep_0	
500-239823-22	VER_040	Total/NA	Water	PrecSep_0	
500-239823-23	VER_042	Total/NA	Water	PrecSep_0	
500-239823-24	VER_043	Total/NA	Water	PrecSep_0	
500-239823-25	VER_EB-01	Total/NA	Water	PrecSep_0	
500-239823-26	VER_EB-02	Total/NA	Water	PrecSep_0	
MB 160-629534/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629534/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-239823-26 DU	VER_EB-02	Total/NA	Water	PrecSep_0	

Prep Batch: 629712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-27	VER_035&D	Total/NA	Water	PrecSep-21	
500-239823-28	VER_035&D-DUP	Total/NA	Water	PrecSep-21	
MB 160-629712/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629712/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 629714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-27	VER_035&D	Total/NA	Water	PrecSep_0	
500-239823-28	VER_035&D-DUP	Total/NA	Water	PrecSep_0	
MB 160-629714/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629714/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Rad

Prep Batch: 629954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total/NA	Water	PrecSep-21	
500-239823-30	VER_101&	Total/NA	Water	PrecSep-21	
MB 160-629954/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-629954/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 629957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-29	VER_FB/EB-1	Total/NA	Water	PrecSep_0	
500-239823-30	VER_101&	Total/NA	Water	PrecSep_0	
MB 160-629957/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-629957/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 630055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-33	VER_103&	Total/NA	Water	PrecSep-21	
500-239823-35	VER_EB-1	Total/NA	Water	PrecSep-21	
MB 160-630055/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-630055/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 630056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-33	VER_103&	Total/NA	Water	PrecSep_0	
500-239823-35	VER_EB-1	Total/NA	Water	PrecSep_0	
MB 160-630056/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-630056/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 630506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-34	VER_NED1	Total/NA	Water	PrecSep-21	
MB 160-630506/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-630506/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 630512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-239823-34	VER_NED1	Total/NA	Water	PrecSep_0	
MB 160-630512/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-630512/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-629216/1-A
Matrix: Water
Analysis Batch: 632158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629216

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	0.02288	U	0.0606	0.0606	1.00	0.114	pCi/L	09/22/23 10:09	10/17/23 09:37	1
Carrier	MB MB		Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	%Yield	Qualifier	30 - 110					09/22/23 10:09	10/17/23 09:37	1

Lab Sample ID: LCS 160-629216/2-A
Matrix: Water
Analysis Batch: 632158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629216

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-226	11.3	10.55		1.12	1.00	0.114	pCi/L	93	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	90.5		30 - 110						

Lab Sample ID: 500-239823-6 MS
Matrix: Water
Analysis Batch: 632161

Client Sample ID: VER_022_MS
Prep Type: Total/NA
Prep Batch: 629216

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
	0.443		11.4	10.69		Uncert. (2σ+/-)					
Radium-226	0.443		11.4	10.69		1.14	1.00	0.137	pCi/L	90	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	93.4		30 - 110								

Lab Sample ID: 500-239823-6 MSD
Matrix: Water
Analysis Batch: 632159

Client Sample ID: VER_022_MSD
Prep Type: Total/NA
Prep Batch: 629216

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
	0.443		11.4	10.78		Uncert. (2σ+/-)							
Radium-226	0.443		11.4	10.78		1.15	1.00	0.132	pCi/L	91	60 - 140	0.04	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	93.2		30 - 110										

Lab Sample ID: MB 160-629461/1-A
Matrix: Water
Analysis Batch: 632159

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629461

Analyte	MB MB		Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-226	-0.01312	U	0.0626	0.0626	1.00	0.137	pCi/L	09/25/23 11:17	10/17/23 14:00	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-629461/1-A
 Matrix: Water
 Analysis Batch: 632159

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 629461

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110	09/25/23 11:17	10/17/23 14:00	1

Lab Sample ID: LCS 160-629461/2-A
 Matrix: Water
 Analysis Batch: 632159

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 629461

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-226	11.3	10.97		1.18	1.00	0.146	pCi/L	97	75 - 125	
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	87.8		30 - 110							

Lab Sample ID: 500-239823-9 MS
 Matrix: Water
 Analysis Batch: 632159

Client Sample ID: VER_004_MS
 Prep Type: Total/NA
 Prep Batch: 629461

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.748		11.3	10.95		1.17	1.00	0.145	pCi/L	90	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	94.1		30 - 110								

Lab Sample ID: 500-239823-9 MSD
 Matrix: Water
 Analysis Batch: 632159

Client Sample ID: VER_004_MSD
 Prep Type: Total/NA
 Prep Batch: 629461

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	0.748		11.4	11.97		1.27	1.00	0.176	pCi/L	99	60 - 140	0.42	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	87.8		30 - 110										

Lab Sample ID: MB 160-629533/1-A
 Matrix: Water
 Analysis Batch: 632342

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 629533

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01229	U	0.0492	0.0492	1.00	0.114	pCi/L	09/26/23 09:51	10/18/23 13:54	1
Carrier	MB %Yield	MB Qualifier	Limits							
Ba Carrier	88.5		30 - 110							

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-629533/2-A
Matrix: Water
Analysis Batch: 632342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629533

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
									75	125	
Radium-226	11.3	11.41		1.21	1.00	0.117	pCi/L	101	75	125	
Carrier	%Yield	LCS Qualifier	Limits								
Ba Carrier	90.2		30 - 110								

Lab Sample ID: 500-239823-26 DU
Matrix: Water
Analysis Batch: 632344

Client Sample ID: VER_EB-02
Prep Type: Total/NA
Prep Batch: 629533

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
										0.14
Radium-226	-0.0322	U	-0.01499	U	0.0590	1.00	0.131	pCi/L	0.14	1
Carrier	%Yield	DU Qualifier	Limits							
Ba Carrier	87.3		30 - 110							

Lab Sample ID: MB 160-629712/1-A
Matrix: Water
Analysis Batch: 632572

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629712

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										1
Radium-226	0.04219	U	0.0741	0.0742	1.00	0.130	pCi/L	09/27/23 10:44	10/19/23 09:19	1
Carrier	%Yield	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac		
Ba Carrier	94.6		30 - 110			09/27/23 10:44	10/19/23 09:19	1		

Lab Sample ID: LCS 160-629712/2-A
Matrix: Water
Analysis Batch: 632572

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629712

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
									75	125
Radium-226	11.3	10.59		1.14	1.00	0.151	pCi/L	93	75	125
Carrier	%Yield	LCS Qualifier	Limits							
Ba Carrier	90.5		30 - 110							

Lab Sample ID: MB 160-629954/1-A
Matrix: Water
Analysis Batch: 632841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629954

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
										1
Radium-226	0.05286	U	0.112	0.112	1.00	0.200	pCi/L	09/28/23 10:53	10/20/23 16:48	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

QC Sample Results

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-629954/1-A
Matrix: Water
Analysis Batch: 632841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629954

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	77.0		30 - 110	09/28/23 10:53	10/20/23 16:48	1

Lab Sample ID: LCS 160-629954/2-A
Matrix: Water
Analysis Batch: 632841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629954

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-226	11.3	11.98		1.30	1.00	0.159	pCi/L	106	75 - 125	

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.2		30 - 110

Lab Sample ID: MB 160-630055/1-A
Matrix: Water
Analysis Batch: 632935

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630055

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.4		30 - 110	09/29/23 10:43	10/23/23 18:16	1

Lab Sample ID: LCS 160-630055/2-A
Matrix: Water
Analysis Batch: 632935

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630055

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-226	11.3	11.03		1.17	1.00	0.143	pCi/L	97	75 - 125	

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.4		30 - 110

Lab Sample ID: MB 160-630506/1-A
Matrix: Water
Analysis Batch: 633327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630506

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	96.3		30 - 110	10/03/23 09:55	10/25/23 07:07	1

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: LCS 160-630506/2-A
 Matrix: Water
 Analysis Batch: 633327

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 630506

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-226	11.3	10.47		1.10	1.00	0.104	pCi/L	92	75 - 125	
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	96.3		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-629220/1-A
 Matrix: Water
 Analysis Batch: 631445

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 629220

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.3832	U	0.215	0.218	1.00	0.531	pCi/L	09/22/23 10:21	10/11/23 11:25	1
Carrier	MB %Yield	MB Qualifier	Limits							
Ba Carrier	87.5		30 - 110							
Y Carrier	84.1		30 - 110							
								Prepared	Analyzed	Dil Fac
								09/22/23 10:21	10/11/23 11:25	1

Lab Sample ID: LCS 160-629220/2-A
 Matrix: Water
 Analysis Batch: 631445

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 629220

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
Radium-228	7.81	5.347		0.869	1.00	0.439	pCi/L	68	75 - 125	
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	90.5		30 - 110							
Y Carrier	84.9		30 - 110							

Lab Sample ID: 500-239823-6 MS
 Matrix: Water
 Analysis Batch: 631441

Client Sample ID: VER_022_MS
 Prep Type: Total/NA
 Prep Batch: 629220

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	3.91		7.85	10.26		1.43	1.00	0.718	pCi/L	81	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	93.4		30 - 110								
Y Carrier	72.9		30 - 110								

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-239823-6 MSD
Matrix: Water
Analysis Batch: 631441

Client Sample ID: VER_022_MSD
Prep Type: Total/NA
Prep Batch: 629220

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		RER
											60 - 140	0.47	1
Radium-228	3.91		7.84	8.989		1.30	1.00	0.574	pCi/L	65	60 - 140	0.47	1
MSD MSD													
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	93.2		30 - 110										
Y Carrier	71.0		30 - 110										

Lab Sample ID: MB 160-629462/1-A
Matrix: Water
Analysis Batch: 631771

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629462

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared		Analyzed		Dil Fac
								09/25/23 11:21	10/12/23 11:09	10/12/23 11:09	11:09	1
Radium-228	-0.09942	U	0.274	0.274	1.00	0.545	pCi/L	09/25/23 11:21	10/12/23 11:09	10/12/23 11:09	11:09	1
MB MB												
Carrier	%Yield	Qualifier	Limits			Prepared	Analyzed			Dil Fac		
Ba Carrier	88.8		30 - 110			09/25/23 11:21	10/12/23 11:09			1		
Y Carrier	80.0		30 - 110			09/25/23 11:21	10/12/23 11:09			1		

Lab Sample ID: LCS 160-629462/2-A
Matrix: Water
Analysis Batch: 631771

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629462

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
									75 - 125		
Radium-228	7.80	8.294		1.19	1.00	0.471	pCi/L	106	75 - 125		
LCS LCS											
Carrier	%Yield	Qualifier	Limits								
Ba Carrier	87.8		30 - 110								
Y Carrier	80.7		30 - 110								

Lab Sample ID: 500-239823-9 MS
Matrix: Water
Analysis Batch: 631771

Client Sample ID: VER_004_MS
Prep Type: Total/NA
Prep Batch: 629462

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	
											60 - 140	
Radium-228	0.477	U	7.79	8.775		1.21	1.00	0.457	pCi/L	107	60 - 140	
MS MS												
Carrier	%Yield	Qualifier	Limits									
Ba Carrier	94.1		30 - 110									
Y Carrier	78.1		30 - 110									

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-239823-9 MSD
Matrix: Water
Analysis Batch: 631771

Client Sample ID: VER_004_MSD
Prep Type: Total/NA
Prep Batch: 629462

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	0.477	U	7.82	8.343		1.20	1.00	0.522	pCi/L	101	60 - 140	0.18	1
Carrier	%Yield	MSD Qualifier	MSD Limits										
Ba Carrier	87.8		30 - 110										
Y Carrier	79.6		30 - 110										

Lab Sample ID: MB 160-629534/1-A
Matrix: Water
Analysis Batch: 631642

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629534

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac	
Radium-228	0.9975		0.467	0.476	1.00	0.657	pCi/L	09/26/23 09:54	10/12/23 11:14	1	
Carrier	%Yield	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac					
Ba Carrier	88.5		30 - 110	09/26/23 09:54	10/12/23 11:14	1					
Y Carrier	84.1		30 - 110	09/26/23 09:54	10/12/23 11:14	1					

Lab Sample ID: LCS 160-629534/2-A
Matrix: Water
Analysis Batch: 631642

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629534

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	7.80	9.156		1.26	1.00	0.508	pCi/L	117	75 - 125
Carrier	%Yield	LCS Qualifier	LCS Limits						
Ba Carrier	90.2		30 - 110						
Y Carrier	84.1		30 - 110						

Lab Sample ID: 500-239823-26 DU
Matrix: Water
Analysis Batch: 631770

Client Sample ID: VER_EB-02
Prep Type: Total/NA
Prep Batch: 629534

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Radium-228	0.119	U	-0.1151	U	0.268	1.00	0.546	pCi/L	0.40	1
Carrier	%Yield	DU Qualifier	DU Limits							
Ba Carrier	87.3		30 - 110							
Y Carrier	83.4		30 - 110							

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-629714/1-A
Matrix: Water
Analysis Batch: 631973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629714

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	-0.3580	U	0.134	0.138	1.00	0.421	pCi/L	09/27/23 10:49	10/13/23 12:18	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	94.6		30 - 110				09/27/23 10:49		10/13/23 12:18	
Y Carrier	82.6		30 - 110				09/27/23 10:49		10/13/23 12:18	

Lab Sample ID: LCS 160-629714/2-A
Matrix: Water
Analysis Batch: 631973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629714

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	7.80	7.923		1.13	1.00	0.485	pCi/L	102	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	90.5		30 - 110						
Y Carrier	83.7		30 - 110						

Lab Sample ID: MB 160-629957/1-A
Matrix: Water
Analysis Batch: 632161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629957

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.2359	U	0.521	0.522	1.00	0.928	pCi/L	09/28/23 11:02	10/17/23 16:53	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	77.0		30 - 110				09/28/23 11:02		10/17/23 16:53	
Y Carrier	78.1		30 - 110				09/28/23 11:02		10/17/23 16:53	

Lab Sample ID: LCS 160-629957/2-A
Matrix: Water
Analysis Batch: 632161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629957

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	7.79	7.079		1.35	1.00	0.936	pCi/L	91	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	90.2		30 - 110						
Y Carrier	82.2		30 - 110						

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-630056/1-A
Matrix: Water
Analysis Batch: 632344

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630056

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.1075	U	0.237	0.238	1.00	0.423	pCi/L	09/29/23 10:47	10/18/23 16:34	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	94.4		30 - 110				09/29/23 10:47		10/18/23 16:34	
Y Carrier	83.0		30 - 110				09/29/23 10:47		10/18/23 16:34	

Lab Sample ID: LCS 160-630056/2-A
Matrix: Water
Analysis Batch: 632344

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630056

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	7.79	7.477		1.11	1.00	0.527	pCi/L	96	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.4		30 - 110						
Y Carrier	81.9		30 - 110						

Lab Sample ID: MB 160-630512/1-A
Matrix: Water
Analysis Batch: 632342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630512

Analyte	MB	MB	Count	Total	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Uncert. (2σ+/-)	Uncert. (2σ+/-)						
Radium-228	0.4080	U	0.305	0.307	1.00	0.459	pCi/L	10/03/23 10:14	10/18/23 16:23	1
Carrier	MB %Yield	MB Qualifier	Limits				Prepared		Analyzed	
Ba Carrier	96.3		30 - 110				10/03/23 10:14		10/18/23 16:23	
Y Carrier	82.6		30 - 110				10/03/23 10:14		10/18/23 16:23	

Lab Sample ID: LCS 160-630512/2-A
Matrix: Water
Analysis Batch: 632574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630512

Analyte	Spike Added	LCS Result	LCS Qual	Total	RL	MDC	Unit	%Rec	%Rec Limits
				Uncert. (2σ+/-)					
Radium-228	7.79	9.297		2.82	1.00	3.11	pCi/L	119	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	96.3		30 - 110						
Y Carrier	85.2		30 - 110						

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_070#S

Lab Sample ID: 500-239823-1

Date Collected: 09/19/23 13:45

Matrix: Water

Date Received: 09/20/23 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632158	FLC	EET SL	10/17/23 09:40
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Client Sample ID: VER_070#SDUP

Lab Sample ID: 500-239823-2

Date Collected: 09/19/23 13:50

Matrix: Water

Date Received: 09/20/23 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632158	FLC	EET SL	10/17/23 09:40
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Client Sample ID: VER_010

Lab Sample ID: 500-239823-3

Date Collected: 09/19/23 10:15

Matrix: Water

Date Received: 09/20/23 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632158	FLC	EET SL	10/17/23 09:40
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Client Sample ID: VER_010DUP

Lab Sample ID: 500-239823-4

Date Collected: 09/19/23 10:20

Matrix: Water

Date Received: 09/20/23 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632158	FLC	EET SL	10/17/23 09:40
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_070&D

Lab Sample ID: 500-239823-5

Date Collected: 09/19/23 15:35

Matrix: Water

Date Received: 09/20/23 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632158	FLC	EET SL	10/17/23 09:40
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Client Sample ID: VER_022

Lab Sample ID: 500-239823-6

Date Collected: 09/19/23 10:20

Matrix: Water

Date Received: 09/20/23 11:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629216	KAC	EET SL	09/22/23 10:09
Total/NA	Analysis	903.0		1	632159	FLC	EET SL	10/17/23 09:45
Total/NA	Prep	PrecSep_0			629220	KAC	EET SL	09/22/23 10:21
Total/NA	Analysis	904.0		1	631441	FLC	EET SL	10/11/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632539	SCB	EET SL	10/18/23 15:04

Client Sample ID: VER_002

Lab Sample ID: 500-239823-7

Date Collected: 09/20/23 14:11

Matrix: Water

Date Received: 09/21/23 11:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632159	FLC	EET SL	10/17/23 14:02
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631771	FLC	EET SL	10/12/23 11:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Client Sample ID: VER_002DUP

Lab Sample ID: 500-239823-8

Date Collected: 09/20/23 14:20

Matrix: Water

Date Received: 09/21/23 11:13

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632159	FLC	EET SL	10/17/23 14:02
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631771	FLC	EET SL	10/12/23 11:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_004
Date Collected: 09/20/23 14:50
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632159	FLC	EET SL	10/17/23 14:02
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631771	FLC	EET SL	10/12/23 11:07
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Client Sample ID: VER_021
Date Collected: 09/20/23 10:20
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632159	FLC	EET SL	10/17/23 14:02
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631642	FLC	EET SL	10/12/23 11:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Client Sample ID: VER_036
Date Collected: 09/20/23 10:47
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632161	FLC	EET SL	10/17/23 14:04
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631642	FLC	EET SL	10/12/23 11:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Client Sample ID: VER_037
Date Collected: 09/20/23 12:31
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632161	FLC	EET SL	10/17/23 14:05
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631642	FLC	EET SL	10/12/23 11:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_041
Date Collected: 09/20/23 12:35
Date Received: 09/21/23 11:13

Lab Sample ID: 500-239823-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629461	KAC	EET SL	09/25/23 11:17
Total/NA	Analysis	903.0		1	632161	FLC	EET SL	10/17/23 14:05
Total/NA	Prep	PrecSep_0			629462	KAC	EET SL	09/25/23 11:21
Total/NA	Analysis	904.0		1	631642	FLC	EET SL	10/12/23 11:11
Total/NA	Analysis	Ra226_Ra228 Pos		1	632548	SCB	EET SL	10/18/23 16:15

Client Sample ID: VER_003R
Date Collected: 09/21/23 08:50
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632342	FLC	EET SL	10/18/23 13:55
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_005
Date Collected: 09/21/23 10:51
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_008R
Date Collected: 09/21/23 09:30
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:55
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_016A
Date Collected: 09/21/23 16:10
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:55
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_017
Date Collected: 09/21/23 08:51
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_020
Date Collected: 09/21/23 13:07
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_034
Date Collected: 09/21/23 14:46
Date Received: 09/22/23 11:09

Lab Sample ID: 500-239823-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: VER-23Q3

Job ID: 500-239823-2
SDG: VER_845_912_RAD

Client Sample ID: VER_038

Lab Sample ID: 500-239823-21

Date Collected: 09/21/23 15:45

Matrix: Water

Date Received: 09/22/23 11:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_040

Lab Sample ID: 500-239823-22

Date Collected: 09/21/23 14:30

Matrix: Water

Date Received: 09/22/23 11:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_042

Lab Sample ID: 500-239823-23

Date Collected: 09/21/23 13:35

Matrix: Water

Date Received: 09/22/23 11:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631769	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_043

Lab Sample ID: 500-239823-24

Date Collected: 09/21/23 14:30

Matrix: Water

Date Received: 09/22/23 11:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631770	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_EB-01

Lab Sample ID: 500-239823-25

Date Collected: 09/21/23 08:40

Matrix: Water

Date Received: 09/22/23 11:09

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631770	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_EB-02

Lab Sample ID: 500-239823-26

Date Collected: 09/22/23 07:30

Matrix: Water

Date Received: 09/22/23 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629533	KAC	EET SL	09/26/23 09:51
Total/NA	Analysis	903.0		1	632344	FLC	EET SL	10/18/23 13:54
Total/NA	Prep	PrecSep_0			629534	KAC	EET SL	09/26/23 09:54
Total/NA	Analysis	904.0		1	631770	FLC	EET SL	10/12/23 11:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632905	EMH	EET SL	10/20/23 16:59

Client Sample ID: VER_035&D

Lab Sample ID: 500-239823-27

Date Collected: 09/22/23 09:35

Matrix: Water

Date Received: 09/22/23 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629712	KAC	EET SL	09/27/23 10:44
Total/NA	Analysis	903.0		1	632572	FLC	EET SL	10/19/23 09:18
Total/NA	Prep	PrecSep_0			629714	KAC	EET SL	09/27/23 10:49
Total/NA	Analysis	904.0		1	631973	FLC	EET SL	10/13/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632908	EMH	EET SL	10/20/23 17:51

Client Sample ID: VER_035&D-DUP

Lab Sample ID: 500-239823-28

Date Collected: 09/22/23 09:40

Matrix: Water

Date Received: 09/22/23 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629712	KAC	EET SL	09/27/23 10:44
Total/NA	Analysis	903.0		1	632572	FLC	EET SL	10/19/23 09:18
Total/NA	Prep	PrecSep_0			629714	KAC	EET SL	09/27/23 10:49
Total/NA	Analysis	904.0		1	631973	FLC	EET SL	10/13/23 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	632908	EMH	EET SL	10/20/23 17:51

Lab Chronicle

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Client Sample ID: VER_FB/EB-1
Date Collected: 09/25/23 18:00
Date Received: 09/26/23 11:13

Lab Sample ID: 500-239823-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629954	KAC	EET SL	09/28/23 10:53
Total/NA	Analysis	903.0		1	632841	FLC	EET SL	10/20/23 16:48
Total/NA	Prep	PrecSep_0			629957	KAC	EET SL	09/28/23 11:02
Total/NA	Analysis	904.0		1	632158	FLC	EET SL	10/17/23 11:44
Total/NA	Analysis	Ra226_Ra228 Pos		1	633287	EMH	EET SL	10/24/23 12:27

Client Sample ID: VER_101&
Date Collected: 09/25/23 16:12
Date Received: 09/26/23 11:13

Lab Sample ID: 500-239823-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			629954	KAC	EET SL	09/28/23 10:53
Total/NA	Analysis	903.0		1	632841	FLC	EET SL	10/20/23 16:49
Total/NA	Prep	PrecSep_0			629957	KAC	EET SL	09/28/23 11:02
Total/NA	Analysis	904.0		1	632158	FLC	EET SL	10/17/23 11:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	633287	EMH	EET SL	10/24/23 12:27

Client Sample ID: VER_103&
Date Collected: 09/26/23 10:43
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630055	KAC	EET SL	09/29/23 10:43
Total/NA	Analysis	903.0		1	632929	FLC	EET SL	10/23/23 21:14
Total/NA	Prep	PrecSep_0			630056	KAC	EET SL	09/29/23 10:47
Total/NA	Analysis	904.0		1	632341	FLC	EET SL	10/18/23 16:46
Total/NA	Analysis	Ra226_Ra228 Pos		1	633295	EMH	EET SL	10/24/23 13:23

Client Sample ID: VER_NED1
Date Collected: 09/26/23 13:36
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630506	KAC	EET SL	10/03/23 09:55
Total/NA	Analysis	903.0		1	633327	FLC	EET SL	10/25/23 07:10
Total/NA	Prep	PrecSep_0			630512	KAC	EET SL	10/03/23 10:14
Total/NA	Analysis	904.0		1	632342	FLC	EET SL	10/18/23 16:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	633461	EMH	EET SL	10/25/23 16:18

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Lab Chronicle

Client Sample ID: VER_EB-1
Date Collected: 09/26/23 17:00
Date Received: 09/27/23 11:31

Lab Sample ID: 500-239823-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			630055	KAC	EET SL	09/29/23 10:43
Total/NA	Analysis	903.0		1	632929	FLC	EET SL	10/23/23 21:18
Total/NA	Prep	PrecSep_0			630056	KAC	EET SL	09/29/23 10:47
Total/NA	Analysis	904.0		1	632341	FLC	EET SL	10/18/23 16:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	633295	EMH	EET SL	10/24/23 13:23

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

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ATTACHEMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
Accreditation/Certification Summary

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

VERMILION POWER PLANT, NORTH ASH POND (NAP) and OLD EAST ASH POND (OEP)
 VER-845-910-911

Job ID: 500-239823-2
 SDG: VER_845_912_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	11-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
903.0	PrecSep-21	Water	Radium-226
904.0	PrecSep_0	Water	Radium-228
Ra226_Ra228 Pos		Water	Radium 226 and 228

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CHAIN-OF-CUSTODY / Analytical Request Document

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580-239823

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 1		
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY		
Address: 3030 Warrenville Rd, Ste 418 Lisle, IL 60532		Copy To: Jason Stuckey		Company Name: Vistra Corp				NPDES GROUND WATER DRINKING WATER
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A				UST RCRA OTHER
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		Site Location		
Requested Due Date/TAT: 10 day		Project Number: 50021987		Project Manager:		STATE: IL		
				Profile #:				

ITEM #	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 AP OTHER OT TISSUE TS	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.																							
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	VER-845-910-911					VER-845-912	VER-NPDES-912	VER-SUP-000																				
																									1	VER_070#SDUP				9/19/2023	1350	1	0	0	0	0	0	0	0	X	X			SHORT HOLDS-NO2
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0 <i>A. J. Elman</i>	<i>A. J. Elman</i>	9/20/23	1118	<i>A. J. Elman</i> <i>[Signature]</i>	9/20/23	0916 1118	

SAMPLER NAME AND SIGNATURE		Temp. in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Alanna Tabares				
SIGNATURE of SAMPLER:	<i>Alanna Tabares</i> DATE Signed (MM/DD/YY): 09/19/23				

500-239823



500-239823 COC

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Page: 1 of 1

Company: Vistra Corp/A3	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 3030 Warrenville Rd, Ste 418 Lisle, IL 60532	Copy To: Jason Stuckey	Company Name: Vistra Corp
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A
Phone: (217) 753-8911 Fax:	Project Name:	Quote Reference:
Requested Due Date/TAT: 10 day	Project Number: 50021987	Project Manager:
		Profile #:

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

ITEM #	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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPF)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					VER-845-910-911	VER-845-912
1	VER_002				09/20/2023	1411	14	2	8	4						X		X			SHORT HOLDS-NO2	
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
HEN-23Q3 Rev 0	<i>[Signature]</i>	9/21/23	1113	<i>[Signature]</i>	9/21/23	0923					

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Alanna Tabone</i>	DATE Signed (MM/DD/YYYY):	2.8-2.4			48at
SIGNATURE of SAMPLER:	<i>Alanna Tabone</i>					

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 3030 Warrenville Rd, Ste 418		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Lisle, IL 60532				Address: see Section A		Site Location		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE: IL		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:				
Requested Due Date/TAT: 10 day		Project Number: 50021987		Profile #:				

ITEM #	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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					VER-845-910-911
1	VER_002DUP				9/20/2023	1420	14	2	Y								X	X		SHORT HOLDS-NO2	
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	<i>[Signature]</i>	9/21/23	1113	<i>[Signature]</i>	9/21/23	0927	
	<i>[Signature]</i>	9/21/23		<i>[Signature]</i>	9/21/23	1113	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>[Signature]</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	09/20/2023		

2.8-2.4
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970-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	REGULATORY AGENCY		
Company: Vistra Corp/A3	Report To: Brian Voelker	Attention: Jason Stuckey			
Address: 3030 Warrenville Rd, Ste 418 Lisle, IL 60532	Copy To: Jason Stuckey	Company Name: Vistra Corp	NPDES GROUND WATER DRINKING WATER		
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Address: see Section A	UST RCRA OTHER		
Phone: (217) 753-8911 Fax:	Project Name:	Quote Reference:	Site Location		
Requested Due Date/TAT: 10 day	Project Number: 50021987	Project Manager:	STATE: IL		
		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.					
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other									
10	SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS			VER_021	9/20/2023	1020	14								X		X							
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	<i>[Signature]</i>	9/20/23	11:17	<i>[Signature]</i>	9/20/23	11:13	

SAMPLER NAME AND SIGNATURE	Temp in °C	Received on	Custody	Samples
PRINT Name of SAMPLER: Alanna Tabares		on Ice (Y/N)	Sealed Cooler (Y/N)	Intact (Y/N)
SIGNATURE of SAMPLER: <i>[Signature]</i>				
DATE Signed (MM/DD/YYYY): 09/20/2023				

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500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location IL STATE:		
Company: <u>Vistra Corp/A3</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>				
Address: <u>3030 Warrenville Rd, Ste 418 Lisle, IL 60532</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>				
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>				
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		Project Manager:		Requested Due Date/TAT: 10 day
Requested Due Date/TAT: 10 day		Project Number: <u>50021987</u>		Project #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				
1	VER_036 Sample IDs MUST BE UNIQUE		WTG		9/20/23	1047	19	X	X						X	X			SHORT HOLDS-NO2
2																			
3																			
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			
HEN-23Q3 Rev 0	[Signature]	9/21/23	1117	[Signature]	9/21/23	0923				
SAMPLER NAME AND SIGNATURE							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Alanna Tabors</u>										
SIGNATURE of SAMPLER: [Signature]							DATE Signed (MM/DD/YY):	09/20/2023		

11 = 0.8
48 CF

500-239823

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:		Page: 1 of 1			
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY			
Address: 3030 Warrenville Rd, Ste 418		Copy To: Jason Stuckey		Company Name: Vistra Corp		NPDES GROUND WATER DRINKING WATER			
Lisle, IL 60532				Address: see Section A		UST RCRA OTHER			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		Site Location		IL	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		STATE:		IL	
Requested Due Date/TAT: 10 day		Project Number: 50021987		Profile #:					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.								
							Preservatives																			
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	VER-845-910-911			VER-845-912	VER-NPDES-912	VER-SUP-000					
	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	DW WT WW P SL OL WP AR OT TS																								
B 1	VER 041		9/20/23	12:35		14	X	X	X				X	X												
2																										
3																										
4																										
5																										
6																										
7																										
8																										
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14																										
15																										
16																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
HEN-23Q3 Rev 0	<i>[Signature]</i>	9/20/23		<i>[Signature]</i>	9/20/23	0923					
SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YY)		Temp. in °C		Received on ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)	
PRINT Name of SAMPLER: STEVEN KIKKIDT		09/20/23		11.8							
SIGNATURE of SAMPLER: <i>[Signature]</i>											



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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

500-239823

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: 1 of 1		
Company: <u>Vistra Corp/A3</u>	Report To: <u>Brian Voelker</u>	Attention: <u>Jason Stuckey</u>	REGULATORY AGENCY		
Address: <u>3030 Warrenville Rd, Ste 418</u> <u>Lisle, IL 60532</u>	Copy To: <u>Jason Stuckey</u>	Company Name: <u>Vistra Corp</u>			
Email To: <u>Brian.Voelker@VistraCorp.com</u>	Purchase Order No.:	Address: <u>see Section A</u>	NPDES	GROUND WATER	DRINKING WATER
Phone: (217) 753-8911 Fax:	Project Name:	Quote Reference:	UST	RCRA	OTHER
Requested Due Date/TAT: <u>10 day</u>	Project Number: <u>50021987</u>	Project Manager:	Site Location	IL	
		Profile #:	STATE:		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Project No./ Lab I.D.											
		MATRIX	CODE			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000																			
		DRAINAGE WATER DW	WT																																						
1	VER_003R			GTG		9/21/23	8:50		14	X	X						X																						SHORT HOLDS-NO2		
2																																									
3																																									
4																																									
5																																									
6																																									
7																																									
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16																																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
HEN-23Q3 Rev 0	<i>[Signature]</i>	9/22/23	1109	<i>[Signature]</i>	9/22/23	0914					
SAMPLER NAME AND SIGNATURE							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
PRINT Name of SAMPLER: Steven Kibick			SIGNATURE of SAMPLER: <i>[Signature]</i>								
							DATE Signed (MM/DD/YY): 09/21/23				

Temp = 1.9 → 1.6, 2.8 → 2.9
1.8 → 1.7, 1.8 → 1.8
1.9 → 1.6

500-239823

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:		REGULATORY AGENCY		
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		Company Name: Vistra Corp		
Address: 3030 Warrenville Rd, Ste 418		Copy To: Jason Stuckey		Company Name: Vistra Corp		Address: see Section A		
Lisle, IL 60532				Quote Reference:		NPDES GROUND WATER DRINKING WATER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Project Manager:		UST RCRA OTHER		
Phone: (217) 753-8911 Fax:		Project Name:		Project #:		Site Location		IL
Requested Due Date/TAT: 10 day		Project Number: 50021987		Profile #:		STATE:		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.							
		MATRIX	CODE			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol					Other						
		DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS																								
1	VER_005					9/21/23	1051		14	X							X	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000					SHORT HOLDS-NO2	
2																											
3																											
4																											
5																											
6																											
7																											
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS							
HEN-23Q3 Rev 0	<i>M. J. Elmer</i>	9/21/23	1109	<i>M. J. Elmer</i>	9/21/23	0914								
SAMPLER NAME AND SIGNATURE						Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)					
PRINT Name of SAMPLER: <i>Stanna Tabares</i>														
SIGNATURE of SAMPLER: <i>Stanna Tabares</i>						DATE Signed (MM/DD/YY):	09/21/23							

Temp: 2.8-72.4

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 3030 Warrenville Rd, Ste 418		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Lisle, IL 60532				Address: see Section A		Site Location		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE: IL		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:				
Requested Due Date/TAT: 10 day		Project Number: 50021987		Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				
1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL W/PE WP AIR AR OTHER OT TISSUE TS	9/21/23	9:30		14	X	X	X					X			SHORT HOLDS-NO2
2																	
3																	
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
HEN-23Q3 Rev 0	<i>A. J. Edwards</i>	9/22/23	1109	<i>Jason Stuckey</i>	9/22/23	0914	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
STEVEN KIKKAWITZ	<i>Steven Kikowitz</i>				
	DATE Signed (MM/DD/YY):				
	09/21/23				

Temp = 1.9 → 1.6

500-230823

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY				
Company: Vistra Corp/A3	Report To: Brian Voelker	Attention: Jason Stuckey	Company Name: Vistra Corp		NPDES GROUND WATER DRINKING WATER					
Address: 3030 Warrenville Rd, Ste 418 Liste, IL 60532	Copy To: Jason Stuckey	Address: see Section A	Address: see Section A		UST RCRA OTHER					
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:	Project Name:		Site Location					
Phone: (217) 753-8911 Fax:	Project Number: 50021987	Project Manager:	Requested Due Date/TAT: 10 day		STATE: IL					
			Profile #:							

ITEM #	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		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.														
		DATE	TIME			Unpreserved	H ₂ SO ₄			HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																				
1	VER_043			WTG	G	9/2/23	14:30	14	X	X	X					X					VER-845-910-911											SHORT HOLDS-NO2			
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
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ADDITIONAL COMMENTS HEN-23Q3 Rev 0	RELINQUISHED BY / AFFILIATION S. G. G... 9/2/23	DATE 9/2/23	TIME 1109	ACCEPTED BY / AFFILIATION <i>[Signature]</i> 9/2/23	DATE 9/2/23	TIME 1109	SAMPLE CONDITIONS
SAMPLER NAME AND SIGNATURE				DATE Signed (MM/DD/YY): 09/21/23		Temp in °C	
PRINT Name of SAMPLER: Steven K... SIGNATURE of SAMPLER: <i>[Signature]</i>				DATE Signed (MM/DD/YY): 09/21/23		Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)	

28-2.4

500-239823

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:		<table border="1"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td>Site Location</td> <td>IL</td> <td></td> </tr> <tr> <td>STATE:</td> <td></td> <td></td> </tr> </table>			REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location	IL		STATE:		
REGULATORY AGENCY																							
NPDES	GROUND WATER	DRINKING WATER																					
UST	RCRA	OTHER																					
Site Location	IL																						
STATE:																							
Company: Vistra Corp/A3	Report To: Brian Voelker	Attention: Jason Stuckey	Company Name: Vistra Corp	Address: see Section A																			
Address: 3030 Warrenville Rd, Ste 418	Copy To: Jason Stuckey	Quote Reference:		Project Manager:																			
Lisle, IL 60532	Purchase Order No.:	Project Name:		Project Number: 50021987																			
Email To: Brian.Voelker@VistraCorp.com	Project Number: 50021987		Profile #:																				
Phone: (217) 753-8911	Fax:	Requested Due Date/TAT: 10 day																					

25

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					VER-845-910-911
1	SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS																			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
HEN-23Q3 Rev 0		<i>[Signature]</i>		9/22/23		<i>[Signature]</i>		9/22/23	0900				
		<i>[Signature]</i>		9/22/23	1109	<i>[Signature]</i>		9/22/23	1109				
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Matt Booney					DATE Signed (MM/DD/YY): 9/22/23								
SIGNATURE of SAMPLER: <i>[Signature]</i>													

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: <u>Vistra Corp/A3</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		NPDES GROUND WATER DRINKING WATER		
Address: <u>3030 Warrenville Rd, Ste 418</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>		UST RCRA OTHER		
<u>Lisle, IL 60532</u>				Address: <u>see Section A</u>		Site Location		
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Quote Reference:		STATE: <u>IL</u>		
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Project Manager:				
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>50021987</u>		Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				
1	VER-845&DEB VER-845&DUP		09/12/23 0910		14	2	8	4									
2																	
3																	
4																	
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16																	

28

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	<u>Chau Minh / Rambal</u>	<u>9/22/23</u>	<u>14:10</u>	<u>Rambal</u>	<u>9/22/23</u>	<u>1410</u>	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	<u>Thanna Tabara</u>				
SIGNATURE of SAMPLER:	<u>Thanna Tabara</u>	DATE Signed (MM/DD/YY):	<u>09/12/23</u>		

3.7 - 3.3 4804

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: <u>Vistra Corp/A3</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		NPDES GROUND WATER DRINKING WATER		
Address: <u>3030 Warrenville Rd, Ste 418</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>		UST RCRA OTHER		
<u>Lisle, IL 60532</u>				Address: <u>see Section A</u>		Site Location		
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Quote Reference:		IL		
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Project Manager:		STATE:		
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>50021987</u>		Profile #:				

33

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↑ Y/N ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.															
		DRINKING WATER	DW			WATER	WT			WASTE WATER	WW	PRODUCT	P	SOLUSOLID	SL	OIL	OL					WIPE	WP	AIR	AR	OTHER	OT	TISSUE	TS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol
1	VER_103&					DATE	TIME																													
						<u>9/26/23</u>	<u>1043</u>																													
2																																				
3																																				
4																																				
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	<u>GW/Ramboll</u>	<u>9/26/23</u>	<u>0900</u>	<u>GW/Ramboll</u>	<u>9/26/23</u>	<u>0900</u>	
	<u>GW/Ramboll</u>	<u>9/27/23</u>	<u>0915</u>	<u>M. J. Elmer</u>	<u>9/27/23</u>	<u>0915</u>	

SAMPLER NAME AND SIGNATURE		Temp. in °C	Received on ice (Y/N)	Custody Sealed/Coded (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Lambert Anderson</u>					
SIGNATURE of SAMPLER: <u>[Signature]</u>					
DATE Signed (MM/DD/YY): <u>9/26/23</u>					
<u>M. J. Elmer 9/27/23 1131</u>					
<u>Shirley Smith 9/27/23 1131</u>					

500-239823

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:		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location IL STATE:							
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey						Company Name: Vistra Corp		Address: see Section A	
Address: 3030 Warrenville Rd, Ste 418 Lisle, IL 60532		Copy To: Jason Stuckey		Quote Reference:						Project Manager:		Project #.	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Requested Due Date/TAT: 10 day						Project Name:		Project Number: 50021987	

ITEM #	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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test (Y/N)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.				
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other								
1	VER_010		WTG		9/19/23	10:15		14									X	X	X					
2																								
3																								
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									
HEN-23Q3 Rev 0					<i>M. J. Elmer</i>		9/20/23	1116	<i>M. J. Elmer</i>				9/20/23	0916										
SAMPLER NAME AND SIGNATURE											Temp in °C		Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)									
PRINT Name of SAMPLER:																								
SIGNATURE of SAMPLER:											DATE Signed (MM/DD/YY):													

0.7-20.11 4801

3



500-239823

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:		REGULATORY AGENCY		
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 3030 Warrenville Rd, Ste 418 Lisle, IL 60532		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		Site Location		
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 50021987		Project Manager:		Profile #:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					VER-845-910-911	VER-845-912
1	VER_010DUP				4/14/23	10:20	14	XXX								X	X	X			SHORT HOLDS-NO2	
2																						
3																						
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				
HEN-23Q3 Rev 0	<i>M. J. Elmer</i>	9/20/23	11:18	<i>Matt Barlow</i> <i>Phil Stuckey</i>	9/20/23	09:16					
SAMPLER NAME AND SIGNATURE							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
PRINT Name of SAMPLER: <i>Matt Barlow</i>											
SIGNATURE of SAMPLER: <i>Matt Barlow</i>					DATE Signed (MM/DD/YY): <i>9/19/2023</i>						

0.7 → 0.4
 48 QT
 11/16/23 (Rev. 1)

5700-239823

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:		Page: 1 of 1					
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY					
Address: 3030 Warrenville Rd, Ste 418 Lisle, IL 60532		Copy To: Jason Stuckey		Company Name: Vistra Corp		NPDES		GROUND WATER		DRINKING WATER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		UST		RCRA		OTHER	
Phone: (217) 753-8911 Fax:		Project Name:		Quota Reference:		Site Location		IL			
Requested Due Date/TAT: 10 day		Project Number: 50021987		Project Manager:		STATE:					
				Profile #:							

ITEM #	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 SOL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.											
						DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000							
																										Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
1	VER_016A				G	9/21/23	1616									X	X	X						SHORT HOLDS-NO2								
2																																
3																																
4																																
5																																
6																																
7																																
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15																																
16																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
HEN-23Q3 Rev 0	<i>Matt Barley</i> M. J. Elka	9/21/23		<i>Jason Stuckey</i> Alm	9/22/23	0814							
		9/22/23	1109		9/22/23	1154							
SAMPLER NAME AND SIGNATURE							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)			
PRINT Name of SAMPLER: Matt Barley													
SIGNATURE of SAMPLER: <i>Matt Barley</i>							DATE Signed (MM/DD/YY): 9/21/23						

TEMP=2.2 → 1.8

500-239823

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:		REGULATORY AGENCY		
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER		
Address: 3030 Warrenville Rd, Ste 418		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER		
Lisle, IL 60532				Address: see Section A		Site Location		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE: IL		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:				
Requested Due Date/TAT: 10 day		Project Number: 50021987		Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
						DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				
1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS																	
21	VER_035&D		9/22/23	0935	14	X	X												SHORT HOLDS-NO2
3																			
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
HEN-23Q3 Rev 0	<i>Alan Wilson / Rumbold</i>	9/22/23	14:10	<i>Kenneth EETA</i>	9/22/23	1410	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
	<i>Alanna Johnson</i>				
	<i>Alanna Johnson</i>				
					DATE Signed (MM/DD/YY): 09/22/23

3.7 - 3.3 480T

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY		
Company: Ramboll		Report To: Brian Voelker		Attention: Jason Stuckey		Company Name: Vistra Corp		
Address:		Copy To: Jason Stuckey		Company Name: Vistra Corp		Address: see Section A		
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		NPDES GROUND WATER DRINKING WATER		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		UST RCRA OTHER		
Requested Due Date/TAT: 10 day		Project Number: 50021987		Profile #:		Site Location		
						STATE: IL		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				
1	LCA VER-835&DEB EB-1	DI G	9/26/23	1700		14	2	8	4					XX	X	X	SHORT HOLDS-NO2
2	LCA 9/26/23																
3	LCA 9/26/23																
4	LCA 9/26/23																
5	LCA 9/26/23																
6	LCA 9/26/23																
7	LCA 9/26/23																
8	LCA 9/26/23																
9	LCA 9/26/23																
10	LCA 9/26/23																
11	LCA 9/26/23																
12	LCA 9/26/23																
13	LCA 9/26/23																
14	LCA 9/26/23																
15	LCA 9/26/23																
16	LCA 9/26/23																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	[Signature]	9/26/23	0900	[Signature]	9/26/23	0900	
	[Signature]	9/27/23	0915	[Signature]	9/27/23	0915	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Larmer Anderson	DATE Signed (MM/DD/YY): 9/26/23				
SIGNATURE of SAMPLER: [Signature]	DATE Signed (MM/DD/YY): 9/27/23 1131				

500-239823
 Page: 1 of 1

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
 Required Client Information:

Company: Vistra Corp/A3
 Address: 3030 Warrenville Rd, Ste 418
Liste, IL 60532
 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: Jason Stuckey
 Purchase Order No.: _____
 Project Name: _____
 Project Number: 50021987

Section C
 Invoice Information:

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



500-239823 COC

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

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER CW WATER WT WASTE WATER WV PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AH OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.						
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	VER-845-910-911	VER-845-912	VER-NPDES-912	VER-SUP-000	VER-845-910-911			VER-845-912	VER-NPDES-912	VER-SUP-000	VER-845-910-911	VER-845-912	VER-NPDES-912
1	VER_FB / EB-1		D1G		9/25/23	1800	17	2	8							X	X	X	X	X	X											SHORT HOLDS-NO2		
2																																		
3																																		
4																																		
5																																		
6																																		
7																																		
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15																																		
16																																		

LWR
9/26/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q3 Rev 0	<i>[Signature]</i> / KAMPON	9/26/23	0815	<i>[Signature]</i>	9/26/23	0900	
	<i>[Signature]</i>	9/26/23	1117	<i>[Signature]</i>	9/26/23	1113	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: LAWREN ANDERTON
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed (MM/DD/YY): 9/26/23

Temp = 5.9 -> 5.3

500-239823

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		REGULATORY AGENCY	
Company: Vistra Corp/A3		Report To: Brian Voelker		Attention: Jason Stuckey		NPDES GROUND WATER DRINKING WATER	
Address: 3030 Warrenville Rd, Ste 418		Copy To: Jason Stuckey		Company Name: Vistra Corp		UST RCRA OTHER	
Lisle, IL 60532				Address: see Section A		Site Location	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:		STATE: IL	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:			
Requested Due Date/TAT: 10 day		Project Number: 50021987		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.	
							DATE	TIME	UNPRESERVED	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					Y/N
1	VER_NED1	GW	9/26/23	1330		14	2	8	4							X	X	SHORT HOLDS-NO2			
2																					
3																					
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
HEN-23Q3 Rev 0	<i>SD W. J. Ramboll</i>	9/26/23	0900	<i>SD W. J. Ramboll</i>	9/27/23	0900	
	<i>SD W. J. Ramboll</i>	9/27/23		<i>J. J. Elmer</i>	9/27/23	0915	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER				
Lambert Anderson	<i>[Signature]</i>				
DATE Signed (MM/DD/YY):					
9/26/23					

J. J. Elmer 9/27/23 1131 *Shirley Scott* 9/27/23 1131

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:					
Client Contact: Shipping/Receiving		Phone:	McCUTCHEON, Carlene	State of Origin: Illinois	500-179258.1					
Company: TestAmerica Laboratories, Inc.		E-Mail: Carlene.McCutcheon@et.eurofins.com	Accreditations Required (See note): NELAP - Illinois	Page: 1 of 1	Job #: 500-239823-2					
Address: 13715 Rider Trail North,		Due Date Requested: 10/19/2023	Analysis Requested Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Ra226 228GFPc, P, X 903.0/PreSep_21 X 904.0/PreSep_0 X	Preservation Codes: M - Hexane N - None O - ASNaO2 P - Na2SO4 Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other:						
City: Earth City	TAT Requested (days):	PO #:		Special Instructions/Note:						
State, Zip: MO, 63045		WO #:		Total Number of containers						
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		Project #: 50022203								
E-mail:		SSOW#:								
Project Name: VER-23Q3										
Site:										
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Weather, Semi-solid, Comminuted, Biotar, etc.)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 X	904.0/PreSep_0 X	Ra226 228GFPc, P, X
VER_070#S (500-239823-1)	9/19/23	13:45 Central		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X	X
VER_070#SDUP (500-239823-2)	9/19/23	13:50 Central		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X	X
VER_010 (500-239823-3)	9/19/23	10:15 Central		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X	X
VER_010DUP (500-239823-4)	9/19/23	10:20 Central		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X	X
VER_070&D (500-239823-5)	9/19/23	15:35 Central		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X	X
VER-022 (500-239823-6)	9/19/23	10:20 Central		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X	X
VER-022_MS (500-239823-6MS)	9/19/23	10:20 Central	MS	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X	X
VER-022_MSD (500-239823-6MSD)	9/19/23	10:20 Central	MSD	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	X	X	X

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontractor 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
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Ami* Date: *9/20/23* 15:20 Company: *Fedex*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

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

Special Instructions/QC Requirements:
 Return To Client Disposal By Lab Archive For _____ Months
 Method of Shipment: _____
 Received by: *Ami Piretta* Date/Time: _____ Company: _____
 Received by: _____ Date/Time: *SEP 21 2023 0850* Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Lab P.M.: McCutcheon, Carlene	Lab No.: 500-179304.1
Client Contact: Shipping/Receiving		E-Mail: Carlene.McCutcheon@et.eurofins.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois	Job #: 500-239823-1
Address: 13715 Rider Trail North,		Due Date Requested: 10/19/2023	Analysis Requested A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:
City: Earth City		TAT Requested (days):	
State, Zip: MO, 63045		PO #:	Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acalone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)
Phone: 314-298-8566(Tel) 314-298-8757(Fax)		WO #:	
Email:		Project #:	Total Number of containers
Project Name: VER-2303		SSOW#:	
Site:		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time
VER_002 (500-239823-7)	9/20/23	14:11 Central	Water
VER_002DUP (500-239823-8)	9/20/23	14:20 Central	Water
VER_004 (500-239823-9)	9/20/23	14:50 Central	Water
VER_004_MS (500-239823-9MS)	9/20/23	14:50 Central	Water
VER_004_MSD (500-239823-9MSD)	9/20/23	14:50 Central	Water
VER_021 (500-239823-10)	9/20/23	10:20 Central	Water
VER_036 (500-239823-11)	9/20/23	10:47 Central	Water
VER_037 (500-239823-12)	9/20/23	12:31 Central	Water
VER_041 (500-239823-13)	9/20/23	12:35 Central	Water

ATTACHEMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 VERMILION POWER PLANT, NORTH ASH POND (NAP) and OLD EAST ASH POND (OEP)
 VER-845-910-911

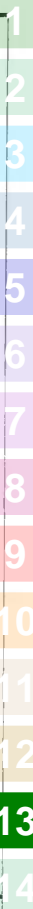
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/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
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Empty Kit Relinquished by:	Date/Time: 9/24/23 14:30	Company: Company	Method of Shipment: FEDEX
Relinquished by: <i>Alvin Booth</i>	Date/Time: 9/24/23 14:30	Company: Company	Received by: <i>Micha Kenning</i>
Relinquished by: FEDEX	Date/Time: 9/24/23 14:30	Company: Company	Date/Time: SEP 22 2023
Relinquished by:	Date/Time:	Company:	Date/Time:

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)
 Client Contact: Shipping/Receiving
 Company: TestAmerica Laboratories, Inc.
 Address: 13715 Rider Trail North, City: Earth City, State, Zip: MO, 63045
 Phone: 314-298-8566(Tel) 314-298-8757(Fax)
 Email:
 Project Name: VER-23Q3
 Site:

Sampler: Lab PM: McCutcheon, Carlene
 Phone: Carlene.McCutcheon@et.eurofins.com
 E-Mail: State of Origin: Illinois
 Carrier Tracking No(s): 500-179356-1
 Page: Page 1 of 2
 Job #: 500-239823-1
 Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDTA, Other:

Due Date Requested: 10/19/2023
TAT Requested (days):
PO #:
WO #:
Project #: 50022203
SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, B=biological, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/Presep_0 W	904.0/Presep_0 W	R226_228GFP_C P W	903.0/Presep_21 X	904.0/Presep_0 X	R226_228GFP_C P X	Total Number of Containers	Special Instructions/Note:
VER_003R (500-239823-14)	9/21/23	08:50 Central		Water		X	X	X	X					2	
VER_005 (500-239823-15)	9/21/23	10:51 Central		Water		X	X	X	X					2	
VER_008R (500-239823-16)	9/21/23	09:30 Central		Water		X	X	X	X					2	
VER_016A (500-239823-17)	9/21/23	16:10 Central		Water						X	X	X	X	2	
VER_017 (500-239823-18)	9/21/23	08:51 Central		Water		X	X	X	X					2	
VER_020 (500-239823-19)	9/21/23	13:07 Central		Water		X	X	X	X					2	
VER_034 (500-239823-20)	9/21/23	14:46 Central		Water		X	X	X	X					2	
VER_038 (500-239823-21)	9/21/23	15:45 Central		Water		X	X	X	X					2	
VER_040 (500-239823-22)	9/21/23	14:30 Central		Water		X	X	X	X					2	

Analysis Requested

Special Instructions/Note:

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

Other:

Special Instructions/Note:

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

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

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

Relinquished by: *Pravny* Date/Time: 9/22/23 15:30 Company: FED EX
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: _____
 Δ Yes Δ No

Received by: *M. Pirota* Date/Time: SEP 25 2023 01:20 Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



Client Information (Sub Contract Lab)			Lab PM:		Carrier Tracking No(s):		COC No:	
Shipping/Receiving			McCUTCHEON, Carlene				500-179356.2	
Company			E-Mail:		State of Origin:		Page 2 of 2	
TestAmerica Laboratories, Inc.			Carlene.McCUTCHEON@et.eurofins.com		Illinois		Job #:	
Address:			Accreditations Required (See note):		Analysis Requested		Preservation Codes:	
13715 Rider Trail North,			NELAP - Illinois		903.0/PreSep_21 W		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:	
City:			Due Date Requested:		Perform MS/MSD (Yes or No)		Total Number of Containers	
Earth City			10/19/2023		X		2	
State, Zip:			TAT Requested (days):		904.0/PreSep_0 X		Special Instructions/Note:	
MO, 63045			903.0/PreSep_21 X		904.0/PreSep_0 X			
Phone:			PO #:		903.0/PreSep_21 W			
314-298-8566(Tel) 314-298-8757(Fax)			WO #:		904.0/PreSep_0 X			
Email:			Project #:		903.0/PreSep_21 X			
			50022203		904.0/PreSep_21 X			
Project Name:			ISSOW#:		903.0/PreSep_21 W			
VER-23Q3					904.0/PreSep_0 X			
Site:			Sample Date		903.0/PreSep_21 X			
			Sample Time		904.0/PreSep_0 X			
			Sample Type (C=comp, G=grab)		903.0/PreSep_21 W			
			Preservation Code:		904.0/PreSep_0 X			
			Matrix (W=water, S=solid, G=generator, B=plasma, A=AA)		903.0/PreSep_21 X			
			13:35		904.0/PreSep_0 X			
VER_042 (500-239823-23)			9/21/23		903.0/PreSep_21 X			
VER_043 (500-239823-24)			9/21/23		904.0/PreSep_0 X			
VER_EB-01 (500-239823-25)			9/21/23		903.0/PreSep_21 X			
VER_EB-01 (500-239823-26)			9/22/23		904.0/PreSep_0 X			

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/test/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
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Brown* Date/Time: 9/22/23 1530
 Relinquished by: *FEDEX* Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Relinquished by: *M. Pinette* Date/Time: SEP 25 2023 09:20
 Relinquished by: _____ Date/Time: _____

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

11/16/23 (Rev. 1)

Chain of Custody Record



Client Information (Sub Contract Lab)

Client Contact: **McCutcheon, Carlene**
 Shipping/Receiving: **Carlene.McCutcheon@et.eurofins.com**
 Company: **TestAmerica Laboratories, Inc.**
 Address: **13715 Rider Trail North, Earth City, MO, 63045**
 Phone: **314-298-8566(Tel) 314-298-8757(Fax)**
 Email: **VER-23Q3**
 Project Name: **VER-23Q3**
 Site: **VER-23Q3**

Sampler: **McCutcheon, Carlene**
Lab PM: **McCutcheon, Carlene**
E-Mail: **Carlene.McCutcheon@et.eurofins.com**
Accreditations Required (See note): **NELAP - Illinois**

COC No.: **500-179379-1**
Page: **Page 1 of 1**
Job #: **500-239823-2**

Due Date Requested: 10/12/2023
TAT Requested (days):
PO #:
WO #:
Project #: 50022203
SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Composite, BTL, Urine, Air)	Preservation Code:	Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		903.0/PreSep_21 X	904.0/PreSep_0 X	Raz26_226GFC_P1 X	Total Number of Containers	Special Instructions/Note:
						Field Filtered	MS/MSD	Field Filtered	MS/MSD					
VER_035&D (500-239823-27)	9/22/23	09:35 Central		Water		X	X	X	X	X	X	X	2	
VER_035&D-DUP (500-239823-28)	9/22/23	09:40 Central		Water		X	X	X	X	X	X	X	2	

Analysis Requested

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2SO4
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4-5
 Y - Trizma
 Z - other (specify)
 Other: _____

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

Special Instructions/QC Requirements:

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

Empty Kit Relinquished by: *Alvin Smith* Date/Time: 9/25/23 09:00 Company: _____
Relinquished by: *Alvin Smith* Date/Time: _____ Company: _____
Relinquished by: *FedEx* Date/Time: _____ Company: _____

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

Received by: *FedEx* Date/Time: _____ Company: _____
Received by: *M. Pinette* Date/Time: SEP 26 2023 0830 Company: _____
Received by: _____ Date/Time: _____ Company: _____

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



Chain of Custody Record



Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving
 Company: TestAmerica Laboratories, Inc.
 Address: 13715 Rider Trail North,
 City: Earth City
 State, Zip: MO, 63045
 Phone: 314-298-8566(Tel) 314-298-8757(Fax)
 Email:
 Project Name: VER-23Q3
 Site:

Lab PM: McCutcheon, Carlene
 E-Mail: Carlene.McCutcheon@et.eurofins.com

Carrier Tracking No(s):
 State of Origin: Illinois

COC No: 500-179489-1
 Page: Page 1 of 1
 Job #: 500-239823-1

Due Date Requested: 10/19/2023
 TAT Requested (days):
 PO #:
 WO #:
 Project #: 50022203
 SSOW#:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=on-site, B=bioreactor, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 W	904.0/PrecSep_0 W	R226_228GFP_C/P W	903.0/PrecSep_21 X	904.0/PrecSep_0 X	R226_228GFP_C/P X	Total Number of containers	Special Instructions/Note:
VER_FB/EB-1 (500-239823-29)	9/25/23	18:00 Central	Water	Water		X	X	X	X	X	X	X	X	2	
VER_101& (500-239823-30)	9/25/23	16:12 Central	Water	Water		X	X	X	X	X	X	X	X	2	

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Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Empty Kit Relinquished by:
 Relinquished by: [Signature] Date/Time: 9/26/23 1345 Company: Fedex
 Relinquished by: [Signature] Date/Time: SEP 27 2023 0845 Company: Company
 Relinquished by: [Signature] Date/Time: Company: 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



Client Information (Sub Contract Lab)
 Shipping/Receiving
 Company: TestAmerica Laboratories, Inc.
 Address: 13715 Rider Trail North, Earth City, MO 63045
 Phone: 314-298-8566(Tel) 314-298-8757(Fax)
 Email:
 Project Name: VER-23Q3
 Site:
 Lab PM: McCutcheon, Carlene
 E-Mail: Carlene.McCutcheon@et.eurofins.com
 State of Origin: Illinois
 Accreditations Required (See note): NELAP - Illinois

Due Date Requested: 10/19/2023
TAT Requested (days):
PO #:
WO #:
Project #: 50022203
SSOW#:
Analysis Requested:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Seawater, Urine, etc.)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep_21 W	904.0/PreSep_0 W	R226_226FPC_P1 W	903.0/PreSep_21 X	904.0/PreSep_0 X	R226_226FPC_P1 X	Total Number of Containers	Special Instructions/Note:
VER_103& (500-239823-33)	9/26/23	10:43 Central	Water	Water		X	X	X						2	
VER_NED1 (500-239823-34)	9/26/23	13:36 Central	Water	Water		X	X	X						2	
VER_EB-1 (500-239823-35)	9/26/23	17:00 Central	Water	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/test/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
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For Months

Chain of Custody

Relinquished by: *[Signature]* Date: 9/27/23 1515 Company: Company
 Relinquished by: *[Signature]* Date: SEP 28 2023 0840 Company: Company
 Relinquished by: *[Signature]* Date/Time: Company: Company

Custody Seal Intact: Custody Seal No. _____

Method of Shipment: _____



Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-239823-2
 SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 1
Creator: Scott, Sherri L

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	2.6,0.4,2.7,2.5,2.4,2.2,0.8,1.6,2.4,1.5,1.8,1.6,4.6,3.3,5.3,5.1,1.3
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: 500-239823-2
 SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 09/21/23 12:43 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	



Client: Vistra Energy Corp

Job Number: 500-239823-2
 SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 3
Creator: Korrinhizer, Micha L

List Source: Eurofins St. Louis
List Creation: 09/22/23 12:21 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: 500-239823-2
 SDG Number: VER_845_912_RAD

Login Number: 239823

List Number: 4

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 09/25/23 02:52 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: 500-239823-2
 SDG Number: VER_845_912_RAD

Login Number: 239823

List Number: 5

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 09/26/23 01:41 PM

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

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-239823-2
 SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 6
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 09/27/23 11:10 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.	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: 500-239823-2
 SDG Number: VER_845_912_RAD

Login Number: 239823
List Number: 7
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 09/28/23 01:33 PM

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



Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_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)	
500-239823-1	VER_070#S	90.5	
500-239823-2	VER_070#SDUP	84.6	
500-239823-3	VER_010	86.6	
500-239823-4	VER_010DUP	85.1	
500-239823-5	VER_070&D	92.4	
500-239823-6	VER_022	92.2	
500-239823-6 MS	VER_022_MS	93.4	
500-239823-6 MSD	VER_022_MSD	93.2	
500-239823-7	VER_002	79.2	
500-239823-8	VER_002DUP	85.3	
500-239823-9	VER_004	85.3	
500-239823-9 MS	VER_004_MS	94.1	
500-239823-9 MSD	VER_004_MSD	87.8	
500-239823-10	VER_021	86.6	
500-239823-11	VER_036	88.8	
500-239823-12	VER_037	84.4	
500-239823-13	VER_041	73.6	
500-239823-14	VER_003R	71.9	
500-239823-15	VER_005	69.4	
500-239823-16	VER_008R	84.4	
500-239823-17	VER_016A	79.0	
500-239823-18	VER_017	82.2	
500-239823-19	VER_020	75.1	
500-239823-20	VER_034	86.1	
500-239823-21	VER_038	74.3	
500-239823-22	VER_040	95.6	
500-239823-23	VER_042	87.3	
500-239823-24	VER_043	80.7	
500-239823-25	VER_EB-01	77.0	
500-239823-26	VER_EB-02	89.7	
500-239823-26 DU	VER_EB-02	87.3	
500-239823-27	VER_035&D	91.9	
500-239823-28	VER_035&D-DUP	91.0	
500-239823-29	VER_FB/EB-1	88.8	
500-239823-30	VER_101&	76.8	
500-239823-33	VER_103&	70.7	
500-239823-34	VER_NED1	91.2	
500-239823-35	VER_EB-1	96.8	
LCS 160-629216/2-A	Lab Control Sample	90.5	
LCS 160-629461/2-A	Lab Control Sample	87.8	
LCS 160-629533/2-A	Lab Control Sample	90.2	
LCS 160-629712/2-A	Lab Control Sample	90.5	
LCS 160-629954/2-A	Lab Control Sample	90.2	
LCS 160-630055/2-A	Lab Control Sample	95.4	
LCS 160-630506/2-A	Lab Control Sample	96.3	
MB 160-629216/1-A	Method Blank	87.5	
MB 160-629461/1-A	Method Blank	88.8	
MB 160-629533/1-A	Method Blank	88.5	
MB 160-629712/1-A	Method Blank	94.6	

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_RAD

Method: 903.0 - Radium-226 (GFPC) (Continued)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y
MB 160-629954/1-A	Method Blank	77.0	
MB 160-630055/1-A	Method Blank	94.4	
MB 160-630506/1-A	Method Blank	96.3	
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)
500-239823-1	VER_070#S	90.5	80.0
500-239823-2	VER_070#SDUP	84.6	77.8
500-239823-3	VER_010	86.6	81.1
500-239823-4	VER_010DUP	85.1	75.5
500-239823-5	VER_070&D	92.4	75.9
500-239823-6	VER_022	92.2	70.7
500-239823-6 MS	VER_022_MS	93.4	72.9
500-239823-6 MSD	VER_022_MSD	93.2	71.0
500-239823-7	VER_002	79.2	76.6
500-239823-8	VER_002DUP	85.3	76.6
500-239823-9	VER_004	85.3	80.0
500-239823-9 MS	VER_004_MS	94.1	78.1
500-239823-9 MSD	VER_004_MSD	87.8	79.6
500-239823-10	VER_021	86.6	75.9
500-239823-11	VER_036	88.8	79.3
500-239823-12	VER_037	84.4	79.3
500-239823-13	VER_041	73.6	78.5
500-239823-14	VER_003R	71.9	79.3
500-239823-15	VER_005	69.4	80.4
500-239823-16	VER_008R	84.4	83.4
500-239823-17	VER_016A	79.0	80.0
500-239823-18	VER_017	82.2	83.4
500-239823-19	VER_020	75.1	77.4
500-239823-20	VER_034	86.1	78.9
500-239823-21	VER_038	74.3	79.6
500-239823-22	VER_040	95.6	86.0
500-239823-23	VER_042	87.3	78.9
500-239823-24	VER_043	80.7	81.9
500-239823-25	VER_EB-01	77.0	83.4
500-239823-26	VER_EB-02	89.7	87.1
500-239823-26 DU	VER_EB-02	87.3	83.4
500-239823-27	VER_035&D	91.9	70.3
500-239823-28	VER_035&D-DUP	91.0	83.4
500-239823-29	VER_FB/EB-1	88.8	76.6
500-239823-30	VER_101&	76.8	75.5
500-239823-33	VER_103&	70.7	81.1
500-239823-34	VER_NED1	91.2	80.7
500-239823-35	VER_EB-1	96.8	81.9

Client: Vistra Energy Corp
 Project/Site: VER-23Q3

Job ID: 500-239823-2
 SDG: VER_845_912_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)
LCS 160-629220/2-A	Lab Control Sample	90.5	84.9
LCS 160-629462/2-A	Lab Control Sample	87.8	80.7
LCS 160-629534/2-A	Lab Control Sample	90.2	84.1
LCS 160-629714/2-A	Lab Control Sample	90.5	83.7
LCS 160-629957/2-A	Lab Control Sample	90.2	82.2
LCS 160-630056/2-A	Lab Control Sample	95.4	81.9
LCS 160-630512/2-A	Lab Control Sample	96.3	85.2
MB 160-629220/1-A	Method Blank	87.5	84.1
MB 160-629462/1-A	Method Blank	88.8	80.0
MB 160-629534/1-A	Method Blank	88.5	84.1
MB 160-629714/1-A	Method Blank	94.6	82.6
MB 160-629957/1-A	Method Blank	77.0	78.1
MB 160-630056/1-A	Method Blank	94.4	83.0
MB 160-630512/1-A	Method Blank	96.3	82.6

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

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

**ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 3, 2023**

ATTACHMENT C.

COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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	E002	Antimony, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.003	0.00100
02	LGU	E002	Arsenic, total	mg/L	03/31/21 - 09/20/23	10	10	CI around mean	0.0052	0.0600
02	LGU	E002	Barium, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.192	0.520
02	LGU	E002	Beryllium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.001
02	LGU	E002	Boron, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.304	2.45
02	LGU	E002	Cadmium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0005	0.001
02	LGU	E002	Chloride, total	mg/L	03/31/21 - 09/20/23	10	0	CB around linear reg	30.6	82.0
02	LGU	E002	Chromium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.005	0.0200
02	LGU	E002	Cobalt, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.00400
02	LGU	E002	Fluoride, total	mg/L	03/31/21 - 09/20/23	10	10	CI around mean	0.481	1.14
02	LGU	E002	Lead, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0005	0.00600
02	LGU	E002	Lithium, total	mg/L	03/31/21 - 09/20/23	10	40	CI around mean	0.00278	0.0300
02	LGU	E002	Mercury, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0002	0.0002
02	LGU	E002	Molybdenum, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.005	0.0200
02	LGU	E002	pH (field)	SU	03/31/21 - 09/20/23	10	0	CI around mean	7.3/7.7	6.8/7.8
02	LGU	E002	Selenium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0025	0.001
02	LGU	E002	Sulfate, total	mg/L	03/31/21 - 09/20/23	10	0	CB around linear reg	-17.7	227
02	LGU	E002	Thallium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.002	0.002
02	LGU	E002	Total Dissolved Solids	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	547	746
03R	LGU	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.00100
03R	LGU	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	0	CI around geomean	0.00456	0.0600
03R	LGU	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.282	0.520
03R	LGU	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.001
03R	LGU	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around median	19.1	2.45
03R	LGU	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.001	0.001
03R	LGU	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	2	CI around mean	26.3	82.0
03R	LGU	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	80	CI around median	0.0015	0.0200

ATTACHMENT C.

COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.001	0.00400
03R	LGU	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	10	CI around mean	0.45	1.14
03R	LGU	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	70	CI around median	0.001	0.00600
03R	LGU	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.003	0.0300
03R	LGU	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.0002
03R	LGU	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.169	0.0200
03R	LGU	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CI around mean	7.2/7.4	6.8/7.8
03R	LGU	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.001
03R	LGU	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	487	227
03R	LGU	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002
03R	LGU	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	1,080	746
04	UA	E002	Antimony, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.003	0.00100
04	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/20/23	10	0	CI around median	0.0053	0.0600
04	UA	E002	Barium, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	0.23	0.520
04	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.001	0.001
04	UA	E002	Boron, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	8.46	2.45
04	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0005	0.001
04	UA	E002	Chloride, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	11.1	82.0
04	UA	E002	Chromium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.025	0.0200
04	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/20/23	10	90	Most recent sample	0.001	0.00400
04	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/20/23	10	10	CB around linear reg	0.326	1.14
04	UA	E002	Lead, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0005	0.00600
04	UA	E002	Lithium, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	0.0478	0.0300
04	UA	E002	Mercury, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0002	0.0002
04	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/20/23	10	0	CB around linear reg	0.0294	0.0200
04	UA	E002	pH (field)	SU	03/30/21 - 09/20/23	10	0	CI around mean	7.3/7.5	6.8/7.8
04	UA	E002	Selenium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0025	0.001

ATTACHMENT C.

COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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	E002	Sulfate, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	48.2	227
04	UA	E002	Thallium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.002	0.002
04	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/20/23	10	0	CI around median	388	746
05	UA	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.00100
05	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.0600
05	UA	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.0216	0.520
05	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.001
05	UA	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	18.3	2.45
05	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.001
05	UA	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	2	CI around median	7.2	82.0
05	UA	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.05	0.0200
05	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.001	0.00400
05	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	10	CI around mean	0.508	1.14
05	UA	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.00600
05	UA	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around median	0.0886	0.0300
05	UA	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.0002
05	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	0	CB around linear reg	0.0382	0.0200
05	UA	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CI around mean	7.2/7.4	6.8/7.8
05	UA	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.001
05	UA	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	221	227
05	UA	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002
05	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	521	746
08R	UA	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.00100
08R	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	0	CB around linear reg	0.0274	0.0600
08R	UA	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.052	0.520
08R	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.001
08R	UA	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around median	14.4	2.45

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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
08R	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.001
08R	UA	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	0	CI around median	4	82.0
08R	UA	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.05	0.0200
08R	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.00400
08R	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	70	CI around median	0.1	1.14
08R	UA	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.00600
08R	UA	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around median	0.13	0.0300
08R	UA	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.0002
08R	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.161	0.0200
08R	UA	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CB around linear reg	6.6/9.5	6.8/7.8
08R	UA	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.001
08R	UA	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	0	CB around linear reg	329	227
08R	UA	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002
08R	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	1,000	746
17	UA	E002	Antimony, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.003	0.00100
17	UA	E002	Arsenic, total	mg/L	03/31/21 - 09/21/23	7	14	CI around mean	0.00371	0.0600
17	UA	E002	Barium, total	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	0.025	0.520
17	UA	E002	Beryllium, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.001	0.001
17	UA	E002	Boron, total	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	2.52	2.45
17	UA	E002	Cadmium, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.0005	0.001
17	UA	E002	Chloride, total	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	11.7	82.0
17	UA	E002	Chromium, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.005	0.0200
17	UA	E002	Cobalt, total	mg/L	03/31/21 - 09/21/23	7	14	CI around mean	0.000858	0.00400
17	UA	E002	Fluoride, total	mg/L	03/31/21 - 09/21/23	7	14	CI around geomean	0.121	1.14
17	UA	E002	Lead, total	mg/L	03/31/21 - 09/21/23	7	71	CI around median	0.0005	0.00600
17	UA	E002	Lithium, total	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	0.0171	0.0300
17	UA	E002	Mercury, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.0002	0.0002

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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
17	UA	E002	Molybdenum, total	mg/L	03/31/21 - 09/21/23	7	43	CI around mean	0.00128	0.0200
17	UA	E002	pH (field)	SU	03/31/21 - 09/21/23	7	0	CI around mean	6.7/7.0	6.8/7.8
17	UA	E002	Selenium, total	mg/L	03/31/21 - 09/21/23	7	86	CI around median	0.001	0.001
17	UA	E002	Sulfate, total	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	866	227
17	UA	E002	Thallium, total	mg/L	03/31/21 - 09/21/23	7	100	All ND - Last	0.002	0.002
17	UA	E002	Total Dissolved Solids	mg/L	03/31/21 - 09/21/23	7	0	CI around mean	1,480	746
20	UA	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.00100
20	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	70	CI around median	0.001	0.0600
20	UA	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.0165	0.520
20	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.001
20	UA	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.534	2.45
20	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.001
20	UA	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	14	CI around median	4	82.0
20	UA	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.005	0.0200
20	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.001	0.00400
20	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	1	1.14
20	UA	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.00600
20	UA	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around geomean	0.0192	0.0300
20	UA	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.0002
20	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.0015	0.0200
20	UA	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CI around mean	6.9/7.0	6.8/7.8
20	UA	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.001
20	UA	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	69.6	227
20	UA	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002
20	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	387	746
34	LGU	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.00100
34	LGU	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.0238	0.0600

ATTACHMENT C.

COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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
34	LGU	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.151	0.520
34	LGU	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.001
34	LGU	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.465	2.45
34	LGU	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.001
34	LGU	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	32.9	82.0
34	LGU	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	30	CI around mean	0.00177	0.0200
34	LGU	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	50	CI around median	0.001	0.00400
34	LGU	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	10	CI around median	0.64	1.14
34	LGU	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	10	CI around mean	0.00126	0.00600
34	LGU	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	40	CI around mean	0.00303	0.0300
34	LGU	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.0002
34	LGU	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	0.0015	0.0200
34	LGU	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CI around mean	6.9/7.1	6.8/7.8
34	LGU	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.001
34	LGU	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	87	CI around median	10	227
34	LGU	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002
34	LGU	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around median	475	746
36	UA	E002	Antimony, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.003	0.00100
36	UA	E002	Arsenic, total	mg/L	03/31/21 - 09/20/23	10	10	CB around linear reg	0.00319	0.0600
36	UA	E002	Barium, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.102	0.520
36	UA	E002	Beryllium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.001
36	UA	E002	Boron, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	11.5	2.45
36	UA	E002	Cadmium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0005	0.001
36	UA	E002	Chloride, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	19	82.0
36	UA	E002	Chromium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.05	0.0200
36	UA	E002	Cobalt, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.00400
36	UA	E002	Fluoride, total	mg/L	03/31/21 - 09/20/23	10	10	CB around T-S line	0.26	1.14

ATTACHMENT C.

COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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
36	UA	E002	Lead, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0005	0.00600
36	UA	E002	Lithium, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.125	0.0300
36	UA	E002	Mercury, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0002	0.0002
36	UA	E002	Molybdenum, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.104	0.0200
36	UA	E002	pH (field)	SU	03/31/21 - 09/20/23	10	0	CI around mean	7.0/7.2	6.8/7.8
36	UA	E002	Selenium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0025	0.001
36	UA	E002	Sulfate, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	944	227
36	UA	E002	Thallium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.002	0.002
36	UA	E002	Total Dissolved Solids	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	1,620	746
37	LGU	E002	Antimony, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.003	0.00100
37	LGU	E002	Arsenic, total	mg/L	03/31/21 - 09/20/23	10	0	CI around median	0.0257	0.0600
37	LGU	E002	Barium, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	0.275	0.520
37	LGU	E002	Beryllium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.001
37	LGU	E002	Boron, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	1.2	2.45
37	LGU	E002	Cadmium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0005	0.001
37	LGU	E002	Chloride, total	mg/L	03/31/21 - 09/20/23	10	0	CI around mean	42	82.0
37	LGU	E002	Chromium, total	mg/L	03/31/21 - 09/20/23	10	90	CI around median	0.0015	0.0200
37	LGU	E002	Cobalt, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.001	0.00400
37	LGU	E002	Fluoride, total	mg/L	03/31/21 - 09/20/23	10	10	CI around median	0.58	1.14
37	LGU	E002	Lead, total	mg/L	03/31/21 - 09/20/23	10	80	CI around median	0.001	0.00600
37	LGU	E002	Lithium, total	mg/L	03/31/21 - 09/20/23	10	90	CI around median	0.003	0.0300
37	LGU	E002	Mercury, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0002	0.0002
37	LGU	E002	Molybdenum, total	mg/L	03/31/21 - 09/20/23	10	90	CI around median	0.0015	0.0200
37	LGU	E002	pH (field)	SU	03/31/21 - 09/20/23	10	0	CI around mean	6.8/7.1	6.8/7.8
37	LGU	E002	Selenium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.0025	0.001
37	LGU	E002	Sulfate, total	mg/L	03/31/21 - 09/20/23	10	0	CB around linear reg	248	227
37	LGU	E002	Thallium, total	mg/L	03/31/21 - 09/20/23	10	100	All ND - Last	0.002	0.002

ATTACHMENT C.

COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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
37	LGU	E002	Total Dissolved Solids	mg/L	03/31/21 - 09/20/23	10	0	CB around linear reg	690	746
38	UA	E002	Antimony, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.003	0.00100
38	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/21/23	10	0	CB around linear reg	0.0227	0.0600
38	UA	E002	Barium, total	mg/L	03/30/21 - 09/21/23	10	0	CB around T-S line	-0.367	0.520
38	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.001
38	UA	E002	Boron, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	0.405	2.45
38	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.001
38	UA	E002	Chloride, total	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	17.7	82.0
38	UA	E002	Chromium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.005	0.0200
38	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.001	0.00400
38	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/21/23	10	10	CI around mean	0.341	1.14
38	UA	E002	Lead, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0005	0.00600
38	UA	E002	Lithium, total	mg/L	03/30/21 - 09/21/23	10	40	CB around linear reg	-0.0112	0.0300
38	UA	E002	Mercury, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0002	0.0002
38	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/21/23	10	20	CI around mean	0.00226	0.0200
38	UA	E002	pH (field)	SU	03/30/21 - 09/21/23	10	0	CI around mean	6.9/7.1	6.8/7.8
38	UA	E002	Selenium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.0025	0.001
38	UA	E002	Sulfate, total	mg/L	03/30/21 - 09/21/23	10	90	CI around median	10	227
38	UA	E002	Thallium, total	mg/L	03/30/21 - 09/21/23	10	100	All ND - Last	0.002	0.002
38	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/21/23	10	0	CI around mean	490	746
40	UA	E002	Antimony, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.003	0.00100
40	UA	E002	Arsenic, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	0.017	0.0600
40	UA	E002	Barium, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	0.0297	0.520
40	UA	E002	Beryllium, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.001	0.001
40	UA	E002	Boron, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	19.1	2.45
40	UA	E002	Cadmium, total	mg/L	03/31/21 - 09/21/23	10	90	CI around median	0.001	0.001
40	UA	E002	Chloride, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	11.9	82.0

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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
40	UA	E002	Chromium, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.005	0.0200
40	UA	E002	Cobalt, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	0.00521	0.00400
40	UA	E002	Fluoride, total	mg/L	03/31/21 - 09/21/23	10	80	CI around median	0.1	1.14
40	UA	E002	Lead, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.0005	0.00600
40	UA	E002	Lithium, total	mg/L	03/31/21 - 09/21/23	10	0	CI around median	0.74	0.0300
40	UA	E002	Mercury, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.0002	0.0002
40	UA	E002	Molybdenum, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	0.0616	0.0200
40	UA	E002	Selenium, total	mg/L	03/31/21 - 09/21/23	10	100	All ND - Last	0.0025	0.001
40	UA	E002	Sulfate, total	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	2,800	227
40	UA	E002	Thallium, total	mg/L	03/31/21 - 09/21/23	10	80	CI around median	0.002	0.002
40	UA	E002	Total Dissolved Solids	mg/L	03/31/21 - 09/21/23	10	0	CI around mean	4,350	746
41	UA	E002	Antimony, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.003	0.00100
41	UA	E002	Arsenic, total	mg/L	03/30/21 - 09/20/23	10	0	CB around linear reg	0.0078	0.0600
41	UA	E002	Barium, total	mg/L	03/30/21 - 09/20/23	10	0	CB around linear reg	0.199	0.520
41	UA	E002	Beryllium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.001	0.001
41	UA	E002	Boron, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	2.59	2.45
41	UA	E002	Cadmium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0005	0.001
41	UA	E002	Chloride, total	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	54.3	82.0
41	UA	E002	Chromium, total	mg/L	03/30/21 - 09/20/23	10	90	CI around median	0.0015	0.0200
41	UA	E002	Cobalt, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.001	0.00400
41	UA	E002	Fluoride, total	mg/L	03/30/21 - 09/20/23	10	10	CI around median	0.41	1.14
41	UA	E002	Lead, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0005	0.00600
41	UA	E002	Lithium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.005	0.0300
41	UA	E002	Mercury, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0002	0.0002
41	UA	E002	Molybdenum, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.005	0.0200
41	UA	E002	pH (field)	SU	03/30/21 - 09/20/23	10	0	CI around mean	7.0/7.1	6.8/7.8
41	UA	E002	Selenium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.0025	0.001

**ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 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	E002	Sulfate, total	mg/L	03/30/21 - 09/20/23	10	80	CI around median	10	227
41	UA	E002	Thallium, total	mg/L	03/30/21 - 09/20/23	10	100	All ND - Last	0.002	0.002
41	UA	E002	Total Dissolved Solids	mg/L	03/30/21 - 09/20/23	10	0	CI around mean	592	746

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