



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

October 29, 2024

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

Re: Vermilion Power Plant New East Ash Pond; IEPA ID # W1838000002-04

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 3, 2024 sampling event at the Vermilion Power Plant New East Ash Pond (NEAP), identified by Illinois Environmental Protection Agency (IEPA) ID No. W1838000002-04. 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 GWPSs.

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

A Corrective Measures Assessment (CMA) for the NEAP was initiated on December 31, 2023, completed, and submitted to IEPA on May 29, 2024, in accordance with 35 I.A.C. § 845.660. The CMA was the first step towards developing a Corrective Action Plan, which will ultimately select a remedy to address all releases from the NEAP. The selected remedy will meet the performance standards of 35 I.A.C. § 845.670(d) and the Corrective Action Plan will be submitted to the Agency on or before May 29, 2025. Once implemented and completed, the selected remedy will attain the GWPSs.

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, 2024, New East Ash Pond,
Vermilion Power Plant, Oakwood, Illinois*

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 3, 2024
NEW EAST ASH POND, VERMILION POWER PLANT, OAKWOOD, ILLINOIS

October 29, 2024

Samples were collected from July 29, 2024 to August 1, 2024 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on August 30, 2024.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 3, 2024 sampling event. Compliance monitoring well 16B was dry; therefore, groundwater elevation data was not recorded and a groundwater sample was not collected. Compliance monitoring wells 35S had insufficient water to sample for this sampling event. Porewater well NED1, located within the boundary of the New East Ash Pond, was flooded and could not be accessed to record groundwater elevation data. **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, 2024 sampling event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan¹ included in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 3, 2024 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 Demonstration² (ASD) was submitted on December 1, 2023 for the exceedances of the chloride and lithium GWPSs detected at compliance monitoring wells 35D and 70D and the sulfate and total dissolved solids (TDS) GWPSs detected at compliance monitoring well 35D during the Quarter 2, 2023 sampling event. The Illinois Environmental Protection Agency (IEPA) provided a written response on December 28, 2024³ that did not concur with the ASD. The non-concurrence was appealed, and on April 18, 2024, the Illinois Pollution Control Board granted the company's requests to stay the applicability of 35 I.A.C. §§ 845.650(d), 845.660, 845.670, and 845.680 as

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

² Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023. 35 I.A.C. § 845.650(E): *Alternative Source Demonstration, New East Ash Pond, Vermilion Power Plant, Oakwood, IL, IEPA ID: W1838000002-04.* December 1, 2023.

³ Illinois Environmental Protection Agency (IEPA), 2023. *Letter from Michael Summers (IEPA) to Dianna Tickner (Dynergy Midwest Generation, LLC): Re: Vermilion Power Plant New East Ash Pond; W1838000002-4, Alternative Source Demonstration (ASD) Submittal.* December 28, 2023.

they apply to the exceedances of the chloride, lithium, sulfate, and TDS GWPSs detected at compliance monitoring wells 35D and 70D.

A second ASD⁴ was submitted on May 8, 2024 for the exceedance of the chloride GWPS at compliance monitoring well 71D during the Quarter 4, 2023 sampling event. The IEPA provided a written response on June 5, 2024⁵ that did not concur with the ASD.

A third ASD⁶ was submitted on July 24, 2024 for the exceedance of the TDS GWPS at compliance monitoring well 70D during the Quarter 1, 2024 sampling event. The IEPA provided a written response on August 22, 2024⁷ that did not concur with the ASD. The non-concurrence was appealed on September 30, 2024. The response from the IPCB is pending.

Except for a lithium GWPS exceedance in compliance monitoring well 71D, exceedances of the chloride, lithium, sulfate, and TDS GWPS were detected during the Quarter 3, 2024 sampling event in the same monitoring wells identified in the December 1, 2023 ASD, the May 8, 2024 ASD, and the July 24, 2024 ASD. As allowed in 35 I.A.C. § 845.650(e), an ASD will be considered for submittal to address the Quarter 3, 2024 lithium GWPS exceedance in compliance well 71D.

TABLES

Table 1	Field Parameters and Analytical Results - Quarter 3, 2024
Table 2	Comparison of Statistical Results to GWPS - Quarter 3, 2024

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 3, 2024
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 3, 2024
Attachment C	Comparison of Statistical Results to Background - Quarter 3, 2024

⁴ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2024. 35 I.A.C. § 845.650(E): *Alternative Source Demonstration, New East Ash Pond, Vermilion Power Plant, Oakwood, IL, IEPA ID: W1838000002-04*. May 8, 2024.

⁵ Illinois Environmental Protection Agency (IEPA), 2024. *Letter from Darin LeCrone (IEPA) to Dianna Tickner (Dynegy Midwest Generation, LLC): Re: Vermilion Power Plant New East Ash Pond; W1838000002-4, Alternative Source Demonstration (ASD) Submittal*. June 5, 2024.

⁶ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2024. 35 I.A.C. § 845.650(E): *Alternative Source Demonstration, New East Ash Pond, Vermilion Power Plant, Oakwood, IL, IEPA ID: W1838000002-04*. July 24, 2024.

⁷ Illinois Environmental Protection Agency (IEPA), 2024. *Letter from Darin LeCrone (IEPA) to Dianna Tickner (Dynegy Midwest Generation, LLC): Re: Vermilion Power Plant New East Ash Pond; W1838000002-4, Alternative Source Demonstration (ASD) Submittal*. August 22, 2024.

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
10	Background	E006	08/01/2024	Antimony, total	0.0013 U	mg/L
10	Background	E006	08/01/2024	Arsenic, total	0.00023 U	mg/L
10	Background	E006	08/01/2024	Barium, total	0.0670	mg/L
10	Background	E006	08/01/2024	Beryllium, total	0.00053 U	mg/L
10	Background	E006	08/01/2024	Boron, total	0.0740 J+	mg/L
10	Background	E006	08/01/2024	Cadmium, total	0.00017 U	mg/L
10	Background	E006	08/01/2024	Calcium, total	180	mg/L
10	Background	E006	08/01/2024	Chloride, total	2.70	mg/L
10	Background	E006	08/01/2024	Chromium, total	0.0011 U	mg/L
10	Background	E006	08/01/2024	Cobalt, total	0.00550	mg/L
10	Background	E006	08/01/2024	Dissolved Oxygen	1.48	mg/L
10	Background	E006	08/01/2024	Fluoride, total	0.130	mg/L
10	Background	E006	08/01/2024	Lead, total	0.00019 U	mg/L
10	Background	E006	08/01/2024	Lithium, total	0.0200	mg/L
10	Background	E006	08/01/2024	Mercury, total	0.000076 U	mg/L
10	Background	E006	08/01/2024	Molybdenum, total	0.0025 U	mg/L
10	Background	E006	08/01/2024	Oxidation Reduction Potential	97.3	mV
10	Background	E006	08/01/2024	pH (field)	6.7	SU
10	Background	E006	08/01/2024	Radium 226 + Radium 228, total	0.202	pCi/L
10	Background	E006	08/01/2024	Selenium, total	0.00098 U	mg/L
10	Background	E006	08/01/2024	Specific Conductance @ 25C (field)	1,313	micromhos/cm
10	Background	E006	08/01/2024	Sulfate, total	280	mg/L
10	Background	E006	08/01/2024	Temperature	16.8	degrees C
10	Background	E006	08/01/2024	Thallium, total	0.00057 U	mg/L
10	Background	E006	08/01/2024	Total Dissolved Solids	1,000	mg/L
10	Background	E006	08/01/2024	Turbidity, field	9.10	NTU
22	Background	E006	07/29/2024	Antimony, total	0.0013 U	mg/L
22	Background	E006	07/29/2024	Arsenic, total	0.00023 U	mg/L
22	Background	E006	07/29/2024	Barium, total	0.0830	mg/L
22	Background	E006	07/29/2024	Beryllium, total	0.00053 U	mg/L
22	Background	E006	07/29/2024	Boron, total	0.380 J+	mg/L
22	Background	E006	07/29/2024	Cadmium, total	0.00017 U	mg/L
22	Background	E006	07/29/2024	Calcium, total	46.0	mg/L
22	Background	E006	07/29/2024	Chloride, total	7.40	mg/L
22	Background	E006	07/29/2024	Chromium, total	0.0011 U	mg/L
22	Background	E006	07/29/2024	Cobalt, total	0.0004 U	mg/L
22	Background	E006	07/29/2024	Dissolved Oxygen	0.180	mg/L
22	Background	E006	07/29/2024	Fluoride, total	0.400	mg/L
22	Background	E006	07/29/2024	Lead, total	0.00019 U	mg/L
22	Background	E006	07/29/2024	Lithium, total	0.0330	mg/L
22	Background	E006	07/29/2024	Mercury, total	0.000076 U	mg/L
22	Background	E006	07/29/2024	Molybdenum, total	0.0025 U	mg/L
22	Background	E006	07/29/2024	Oxidation Reduction Potential	-45.3	mV
22	Background	E006	07/29/2024	pH (field)	7.3	SU
22	Background	E006	07/29/2024	Radium 226 + Radium 228, total	0.836	pCi/L
22	Background	E006	07/29/2024	Selenium, total	0.00098 U	mg/L

TABLE 1.
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VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
22	Background	E006	07/29/2024	Specific Conductance @ 25C (field)	763	micromhos/cm
22	Background	E006	07/29/2024	Sulfate, total	29.0	mg/L
22	Background	E006	07/29/2024	Temperature	15.2	degrees C
22	Background	E006	07/29/2024	Thallium, total	0.00057 U	mg/L
22	Background	E006	07/29/2024	Total Dissolved Solids	460	mg/L
22	Background	E006	07/29/2024	Turbidity, field	25.3	NTU
16B	Compliance	E006	--	Antimony, total	NS ⁷	mg/L
16B	Compliance	E006	--	Arsenic, total	NS ⁷	mg/L
16B	Compliance	E006	--	Barium, total	NS ⁷	mg/L
16B	Compliance	E006	--	Beryllium, total	NS ⁷	mg/L
16B	Compliance	E006	--	Boron, total	NS ⁷	mg/L
16B	Compliance	E006	--	Cadmium, total	NS ⁷	mg/L
16B	Compliance	E006	--	Calcium, total	NS ⁷	mg/L
16B	Compliance	E006	--	Chloride, total	NS ⁷	mg/L
16B	Compliance	E006	--	Chromium, total	NS ⁷	mg/L
16B	Compliance	E006	--	Cobalt, total	NS ⁷	mg/L
16B	Compliance	E006	--	Dissolved Oxygen	NS ⁷	mg/L
16B	Compliance	E006	--	Fluoride, total	NS ⁷	mg/L
16B	Compliance	E006	--	Lead, total	NS ⁷	mg/L
16B	Compliance	E006	--	Lithium, total	NS ⁷	mg/L
16B	Compliance	E006	--	Mercury, total	NS ⁷	mg/L
16B	Compliance	E006	--	Molybdenum, total	NS ⁷	mg/L
16B	Compliance	E006	--	Oxidation Reduction Potential	NS ⁷	mV
16B	Compliance	E006	--	pH (field)	NS ⁷	SU
16B	Compliance	E006	--	Radium 226 + Radium 228, total	NS ⁷	pCi/L
16B	Compliance	E006	--	Selenium, total	NS ⁷	mg/L
16B	Compliance	E006	--	Specific Conductance @ 25C (field)	NS ⁷	micromhos/cm
16B	Compliance	E006	--	Sulfate, total	NS ⁷	mg/L
16B	Compliance	E006	--	Temperature	NS ⁷	degrees C
16B	Compliance	E006	--	Thallium, total	NS ⁷	mg/L
16B	Compliance	E006	--	Total Dissolved Solids	NS ⁷	mg/L
16B	Compliance	E006	--	Turbidity, field	NS ⁷	NTU
16A	Compliance	E006	07/31/2024	Antimony, total	0.0013 U	mg/L
16A	Compliance	E006	07/31/2024	Arsenic, total	0.00150 J	mg/L
16A	Compliance	E006	07/31/2024	Barium, total	0.300	mg/L
16A	Compliance	E006	07/31/2024	Beryllium, total	0.00053 U	mg/L
16A	Compliance	E006	07/31/2024	Boron, total	0.840 J+	mg/L
16A	Compliance	E006	07/31/2024	Cadmium, total	0.00017 U	mg/L
16A	Compliance	E006	07/31/2024	Calcium, total	33.0	mg/L
16A	Compliance	E006	07/31/2024	Chloride, total	130	mg/L
16A	Compliance	E006	07/31/2024	Chromium, total	0.00550 J+	mg/L
16A	Compliance	E006	07/31/2024	Cobalt, total	0.00170	mg/L
16A	Compliance	E006	07/31/2024	Dissolved Oxygen	1.95	mg/L
16A	Compliance	E006	07/31/2024	Fluoride, total	0.860	mg/L
16A	Compliance	E006	07/31/2024	Lead, total	0.00150 J+	mg/L
16A	Compliance	E006	07/31/2024	Lithium, total	0.0360	mg/L

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NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
16A	Compliance	E006	07/31/2024	Mercury, total	0.000076 U	mg/L
16A	Compliance	E006	07/31/2024	Molybdenum, total	0.0025 U	mg/L
16A	Compliance	E006	07/31/2024	Oxidation Reduction Potential	-131	mV
16A	Compliance	E006	07/31/2024	pH (field)	7.7	SU
16A	Compliance	E006	07/31/2024	Radium 226 + Radium 228, total	1.95	pCi/L
16A	Compliance	E006	07/31/2024	Selenium, total	0.00098 U	mg/L
16A	Compliance	E006	07/31/2024	Specific Conductance @ 25C (field)	1,379	micromhos/cm
16A	Compliance	E006	07/31/2024	Sulfate, total	2.90	mg/L
16A	Compliance	E006	07/31/2024	Temperature	12.6	degrees C
16A	Compliance	E006	07/31/2024	Thallium, total	0.00057 U	mg/L
16A	Compliance	E006	07/31/2024	Total Dissolved Solids	640	mg/L
16A	Compliance	E006	07/31/2024	Turbidity, field	57.4	NTU
35S	Compliance	E006	--	Antimony, total	NS ⁷	mg/L
35S	Compliance	E006	--	Arsenic, total	NS ⁷	mg/L
35S	Compliance	E006	--	Barium, total	NS ⁷	mg/L
35S	Compliance	E006	--	Beryllium, total	NS ⁷	mg/L
35S	Compliance	E006	--	Boron, total	NS ⁷	mg/L
35S	Compliance	E006	--	Cadmium, total	NS ⁷	mg/L
35S	Compliance	E006	--	Calcium, total	NS ⁷	mg/L
35S	Compliance	E006	--	Chloride, total	NS ⁷	mg/L
35S	Compliance	E006	--	Chromium, total	NS ⁷	mg/L
35S	Compliance	E006	--	Cobalt, total	NS ⁷	mg/L
35S	Compliance	E006	--	Dissolved Oxygen	NS ⁷	mg/L
35S	Compliance	E006	--	Fluoride, total	NS ⁷	mg/L
35S	Compliance	E006	--	Lead, total	NS ⁷	mg/L
35S	Compliance	E006	--	Lithium, total	NS ⁷	mg/L
35S	Compliance	E006	--	Mercury, total	NS ⁷	mg/L
35S	Compliance	E006	--	Molybdenum, total	NS ⁷	mg/L
35S	Compliance	E006	--	Oxidation Reduction Potential	NS ⁷	mV
35S	Compliance	E006	--	pH (field)	NS ⁷	SU
35S	Compliance	E006	--	Radium 226 + Radium 228, total	NS ⁷	pCi/L
35S	Compliance	E006	--	Selenium, total	NS ⁷	mg/L
35S	Compliance	E006	--	Specific Conductance @ 25C (field)	NS ⁷	micromhos/cm
35S	Compliance	E006	--	Sulfate, total	NS ⁷	mg/L
35S	Compliance	E006	--	Temperature	NS ⁷	degrees C
35S	Compliance	E006	--	Thallium, total	NS ⁷	mg/L
35S	Compliance	E006	--	Total Dissolved Solids	NS ⁷	mg/L
35S	Compliance	E006	--	Turbidity, field	NS ⁷	NTU
35D	Compliance	E006	07/31/2024	Antimony, total	0.0013 U	mg/L
35D	Compliance	E006	07/31/2024	Arsenic, total	0.00200	mg/L
35D	Compliance	E006	07/31/2024	Barium, total	0.0230	mg/L
35D	Compliance	E006	07/31/2024	Beryllium, total	0.00053 U	mg/L
35D	Compliance	E006	07/31/2024	Boron, total	1.90	mg/L
35D	Compliance	E006	07/31/2024	Cadmium, total	0.00017 U	mg/L
35D	Compliance	E006	07/31/2024	Calcium, total	95.0	mg/L
35D	Compliance	E006	07/31/2024	Chloride, total	380	mg/L

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OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
35D	Compliance	E006	07/31/2024	Chromium, total	0.0011 U	mg/L
35D	Compliance	E006	07/31/2024	Cobalt, total	0.0004 U	mg/L
35D	Compliance	E006	07/31/2024	Dissolved Oxygen	0.960	mg/L
35D	Compliance	E006	07/31/2024	Fluoride, total	0.730	mg/L
35D	Compliance	E006	07/31/2024	Lead, total	0.00019 U	mg/L
35D	Compliance	E006	07/31/2024	Lithium, total	0.150	mg/L
35D	Compliance	E006	07/31/2024	Mercury, total	0.000076 U	mg/L
35D	Compliance	E006	07/31/2024	Molybdenum, total	0.0028 J	mg/L
35D	Compliance	E006	07/31/2024	Oxidation Reduction Potential	-60.9	mV
35D	Compliance	E006	07/31/2024	pH (field)	7.3	SU
35D	Compliance	E006	07/31/2024	Radium 226 + Radium 228, total	0.898	pCi/L
35D	Compliance	E006	07/31/2024	Selenium, total	0.00098 U	mg/L
35D	Compliance	E006	07/31/2024	Specific Conductance @ 25C (field)	4,663	micromhos/cm
35D	Compliance	E006	07/31/2024	Sulfate, total	1,400	mg/L
35D	Compliance	E006	07/31/2024	Temperature	16.9	degrees C
35D	Compliance	E006	07/31/2024	Thallium, total	0.00057 U	mg/L
35D	Compliance	E006	07/31/2024	Total Dissolved Solids	3,500	mg/L
35D	Compliance	E006	07/31/2024	Turbidity, field	8.91	NTU
70S	Compliance	E006	07/30/2024	Antimony, total	0.0013 U	mg/L
70S	Compliance	E006	07/30/2024	Arsenic, total	0.00028 J	mg/L
70S	Compliance	E006	07/30/2024	Barium, total	0.0150	mg/L
70S	Compliance	E006	07/30/2024	Beryllium, total	0.00053 U	mg/L
70S	Compliance	E006	07/30/2024	Boron, total	0.450 J+	mg/L
70S	Compliance	E006	07/30/2024	Cadmium, total	0.00031 J	mg/L
70S	Compliance	E006	07/30/2024	Calcium, total	190	mg/L
70S	Compliance	E006	07/30/2024	Chloride, total	9.80	mg/L
70S	Compliance	E006	07/30/2024	Chromium, total	0.0011 U	mg/L
70S	Compliance	E006	07/30/2024	Cobalt, total	0.0004 U	mg/L
70S	Compliance	E006	07/30/2024	Dissolved Oxygen	1.26	mg/L
70S	Compliance	E006	07/30/2024	Fluoride, total	0.150	mg/L
70S	Compliance	E006	07/30/2024	Lead, total	0.0005 UJ	mg/L
70S	Compliance	E006	07/30/2024	Lithium, total	0.0180	mg/L
70S	Compliance	E006	07/30/2024	Mercury, total	0.000076 U	mg/L
70S	Compliance	E006	07/30/2024	Molybdenum, total	0.0048 J	mg/L
70S	Compliance	E006	07/30/2024	Oxidation Reduction Potential	128	mV
70S	Compliance	E006	07/30/2024	pH (field)	6.9	SU
70S	Compliance	E006	07/30/2024	Radium 226 + Radium 228, total	0.338	pCi/L
70S	Compliance	E006	07/30/2024	Selenium, total	0.00098 U	mg/L
70S	Compliance	E006	07/30/2024	Specific Conductance @ 25C (field)	1,293	micromhos/cm
70S	Compliance	E006	07/30/2024	Sulfate, total	510	mg/L
70S	Compliance	E006	07/30/2024	Temperature	14.5	degrees C
70S	Compliance	E006	07/30/2024	Thallium, total	0.00057 U	mg/L
70S	Compliance	E006	07/30/2024	Total Dissolved Solids	1,200	mg/L
70S	Compliance	E006	07/30/2024	Turbidity, field	6.07	NTU
70D	Compliance	E006	07/30/2024	Antimony, total	0.0013 U	mg/L
70D	Compliance	E006	07/30/2024	Arsenic, total	0.00042 J	mg/L

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NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
70D	Compliance	E006	07/30/2024	Barium, total	0.320	mg/L
70D	Compliance	E006	07/30/2024	Beryllium, total	0.00053 U	mg/L
70D	Compliance	E006	07/30/2024	Boron, total	1.30	mg/L
70D	Compliance	E006	07/30/2024	Cadmium, total	0.00017 U	mg/L
70D	Compliance	E006	07/30/2024	Calcium, total	91.0	mg/L
70D	Compliance	E006	07/30/2024	Chloride, total	410	mg/L
70D	Compliance	E006	07/30/2024	Chromium, total	0.005 UJ	mg/L
70D	Compliance	E006	07/30/2024	Cobalt, total	0.00110	mg/L
70D	Compliance	E006	07/30/2024	Dissolved Oxygen	2.90	mg/L
70D	Compliance	E006	07/30/2024	Fluoride, total	0.450	mg/L
70D	Compliance	E006	07/30/2024	Lead, total	0.000990 J+	mg/L
70D	Compliance	E006	07/30/2024	Lithium, total	0.0930	mg/L
70D	Compliance	E006	07/30/2024	Mercury, total	0.000076 U	mg/L
70D	Compliance	E006	07/30/2024	Molybdenum, total	0.0029 J	mg/L
70D	Compliance	E006	07/30/2024	Oxidation Reduction Potential	148	mV
70D	Compliance	E006	07/30/2024	pH (field)	6.8	SU
70D	Compliance	E006	07/30/2024	Radium 226 + Radium 228, total	1.45	pCi/L
70D	Compliance	E006	07/30/2024	Selenium, total	0.00098 U	mg/L
70D	Compliance	E006	07/30/2024	Specific Conductance @ 25C (field)	2,892	micromhos/cm
70D	Compliance	E006	07/30/2024	Sulfate, total	61.0	mg/L
70D	Compliance	E006	07/30/2024	Temperature	15.1	degrees C
70D	Compliance	E006	07/30/2024	Thallium, total	0.00057 U	mg/L
70D	Compliance	E006	07/30/2024	Total Dissolved Solids	1,400	mg/L
70D	Compliance	E006	07/30/2024	Turbidity, field	18.5	NTU
71S	Compliance	E006	07/30/2024	Antimony, total	0.0013 U	mg/L
71S	Compliance	E006	07/30/2024	Arsenic, total	0.00140	mg/L
71S	Compliance	E006	07/30/2024	Barium, total	0.0490	mg/L
71S	Compliance	E006	07/30/2024	Beryllium, total	0.00053 U	mg/L
71S	Compliance	E006	07/30/2024	Boron, total	0.240 J+	mg/L
71S	Compliance	E006	07/30/2024	Cadmium, total	0.00017 U	mg/L
71S	Compliance	E006	07/30/2024	Calcium, total	120	mg/L
71S	Compliance	E006	07/30/2024	Chloride, total	1.50	mg/L
71S	Compliance	E006	07/30/2024	Chromium, total	0.0011 U	mg/L
71S	Compliance	E006	07/30/2024	Cobalt, total	0.00150	mg/L
71S	Compliance	E006	07/30/2024	Dissolved Oxygen	0.180	mg/L
71S	Compliance	E006	07/30/2024	Fluoride, total	0.210	mg/L
71S	Compliance	E006	07/30/2024	Lead, total	0.0005 UJ	mg/L
71S	Compliance	E006	07/30/2024	Lithium, total	0.00870	mg/L
71S	Compliance	E006	07/30/2024	Mercury, total	0.000076 U	mg/L
71S	Compliance	E006	07/30/2024	Molybdenum, total	0.0029 J	mg/L
71S	Compliance	E006	07/30/2024	Oxidation Reduction Potential	8.90	mV
71S	Compliance	E006	07/30/2024	pH (field)	6.8	SU
71S	Compliance	E006	07/30/2024	Radium 226 + Radium 228, total	0.393	pCi/L
71S	Compliance	E006	07/30/2024	Selenium, total	0.00098 U	mg/L
71S	Compliance	E006	07/30/2024	Specific Conductance @ 25C (field)	1,021	micromhos/cm
71S	Compliance	E006	07/30/2024	Sulfate, total	62.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2024

845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
71S	Compliance	E006	07/30/2024	Temperature	17.1	degrees C
71S	Compliance	E006	07/30/2024	Thallium, total	0.00057 U	mg/L
71S	Compliance	E006	07/30/2024	Total Dissolved Solids	560	mg/L
71S	Compliance	E006	07/30/2024	Turbidity, field	1.26	NTU
71D	Compliance	E006	08/01/2024	Antimony, total	0.0013 U	mg/L
71D	Compliance	E006	08/01/2024	Arsenic, total	0.00026 J	mg/L
71D	Compliance	E006	08/01/2024	Barium, total	0.250	mg/L
71D	Compliance	E006	08/01/2024	Beryllium, total	0.00053 U	mg/L
71D	Compliance	E006	08/01/2024	Boron, total	0.780 J+	mg/L
71D	Compliance	E006	08/01/2024	Cadmium, total	0.00017 U	mg/L
71D	Compliance	E006	08/01/2024	Calcium, total	22.0	mg/L
71D	Compliance	E006	08/01/2024	Chloride, total	680	mg/L
71D	Compliance	E006	08/01/2024	Chromium, total	0.005 UJ	mg/L
71D	Compliance	E006	08/01/2024	Cobalt, total	0.00079 J	mg/L
71D	Compliance	E006	08/01/2024	Dissolved Oxygen	0.460	mg/L
71D	Compliance	E006	08/01/2024	Fluoride, total	0.520	mg/L
71D	Compliance	E006	08/01/2024	Lead, total	0.000890 J+	mg/L
71D	Compliance	E006	08/01/2024	Lithium, total	0.110	mg/L
71D	Compliance	E006	08/01/2024	Mercury, total	0.00019 U	mg/L
71D	Compliance	E006	08/01/2024	Molybdenum, total	0.0025 U	mg/L
71D	Compliance	E006	08/01/2024	Oxidation Reduction Potential	89.3	mV
71D	Compliance	E006	08/01/2024	pH (field)	7.0	SU
71D	Compliance	E006	08/01/2024	Radium 226 + Radium 228, total	NS ⁷	pCi/L
71D	Compliance	E006	08/01/2024	Selenium, total	0.00098 U	mg/L
71D	Compliance	E006	08/01/2024	Specific Conductance @ 25C (field)	4,496	micromhos/cm
71D	Compliance	E006	08/01/2024	Sulfate, total	42.0	mg/L
71D	Compliance	E006	08/01/2024	Temperature	15.8	degrees C
71D	Compliance	E006	08/01/2024	Thallium, total	0.00057 U	mg/L
71D	Compliance	E006	08/01/2024	Total Dissolved Solids	2,300	mg/L
71D	Compliance	E006	08/01/2024	Turbidity, field	23.4	NTU

Notes:
C = Celsius
cm = centimeter
mg/L = milligrams per liter
Missing Code (if applicable):
NR¹ = Select parameters were not analyzed.
NS¹ = This well has been, or will be, abandoned; therefore, a sample was not collected.
NS² = Well either needs or was undergoing maintenance, therefore, a sample was not collected.
NS³ = A sample was not collected because the location was inaccessible.
NS⁴ = The location could not be found, therefore a sample was not collected.
NS⁵ = A sample was not collected because of damage to the well.
NS⁶ = A sample was not collected because of pump issues.
NS⁷ = A sample was not collected because the well was either dry or was purged dry and did not recover.
PM¹ = Select parameters were not analyzed as the well purged dry during sample collection and did not sufficiently recover to sample for all parameters.
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, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW 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
16B	UU	E006	Antimony, total	mg/L	--	--	--	--	NS ⁷	0.006	Standard	--
16B	UU	E006	Arsenic, total	mg/L	--	--	--	--	NS ⁷	0.010	Standard	--
16B	UU	E006	Barium, total	mg/L	--	--	--	--	NS ⁷	2.0	Standard	--
16B	UU	E006	Beryllium, total	mg/L	--	--	--	--	NS ⁷	0.004	Standard	--
16B	UU	E006	Boron, total	mg/L	--	--	--	--	NS ⁷	2	Standard	--
16B	UU	E006	Cadmium, total	mg/L	--	--	--	--	NS ⁷	0.005	Standard	--
16B	UU	E006	Chloride, total	mg/L	--	--	--	--	NS ⁷	200	Standard	--
16B	UU	E006	Chromium, total	mg/L	--	--	--	--	NS ⁷	0.1	Standard	--
16B	UU	E006	Cobalt, total	mg/L	--	--	--	--	NS ⁷	0.0900	Background	--
16B	UU	E006	Fluoride, total	mg/L	--	--	--	--	NS ⁷	4.0	Standard	--
16B	UU	E006	Lead, total	mg/L	--	--	--	--	NS ⁷	0.0075	Standard	--
16B	UU	E006	Lithium, total	mg/L	--	--	--	--	NS ⁷	0.04	Standard	--
16B	UU	E006	Mercury, total	mg/L	--	--	--	--	NS ⁷	0.002	Standard	--
16B	UU	E006	Molybdenum, total	mg/L	--	--	--	--	NS ⁷	0.1	Standard	--
16B	UU	E006	pH (field)	SU	--	--	--	--	NS ⁷	6.3/9.0	Background/Standard	--
16B	UU	E006	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS ⁷	7.00	Background	--
16B	UU	E006	Selenium, total	mg/L	--	--	--	--	NS ⁷	0.05	Standard	--
16B	UU	E006	Sulfate, total	mg/L	--	--	--	--	NS ⁷	400	Standard	--
16B	UU	E006	Thallium, total	mg/L	--	--	--	--	NS ⁷	0.002	Standard	--
16B	UU	E006	Total Dissolved Solids	mg/L	--	--	--	--	NS ⁷	1,200	Standard	--
16A	BCU	E006	Antimony, total	mg/L	04/01/21 - 07/31/24	13	92	CB around T-S line	0.001	0.006	Standard	No Exceedance
16A	BCU	E006	Arsenic, total	mg/L	04/01/21 - 07/31/24	13	0	CI around geomean	0.00127	0.010	Standard	No Exceedance
16A	BCU	E006	Barium, total	mg/L	04/01/21 - 07/31/24	13	0	CI around mean	0.258	2.0	Standard	No Exceedance
16A	BCU	E006	Beryllium, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
16A	BCU	E006	Boron, total	mg/L	04/01/21 - 07/31/24	13	0	CI around mean	0.69	2	Standard	No Exceedance
16A	BCU	E006	Cadmium, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
16A	BCU	E006	Chloride, total	mg/L	04/01/21 - 07/31/24	13	0	CI around mean	124	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW 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
16A	BCU	E006	Chromium, total	mg/L	04/01/21 - 07/31/24	13	77	CB around T-S line	0.0015	0.1	Standard	No Exceedance
16A	BCU	E006	Cobalt, total	mg/L	04/01/21 - 07/31/24	13	77	CI around median	0.001	0.0900	Background	No Exceedance
16A	BCU	E006	Fluoride, total	mg/L	04/01/21 - 07/31/24	13	8	CI around mean	0.682	4.0	Standard	No Exceedance
16A	BCU	E006	Lead, total	mg/L	04/01/21 - 07/31/24	13	77	CI around median	0.001	0.0075	Standard	No Exceedance
16A	BCU	E006	Lithium, total	mg/L	04/01/21 - 07/31/24	13	0	CB around linear reg	0.0315	0.04	Standard	No Exceedance
16A	BCU	E006	Mercury, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
16A	BCU	E006	Molybdenum, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.005	0.1	Standard	No Exceedance
16A	BCU	E006	pH (field)	SU	04/01/21 - 07/31/24	18	0	CI around mean	7.2/7.5	6.3/9.0	Background/Standard	No Exceedance
16A	BCU	E006	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 07/31/24	12	0	CI around mean	0.59	7.00	Background	No Exceedance
16A	BCU	E006	Selenium, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
16A	BCU	E006	Sulfate, total	mg/L	04/01/21 - 07/31/24	18	5	CB around linear reg	-18	400	Standard	No Exceedance
16A	BCU	E006	Thallium, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
16A	BCU	E006	Total Dissolved Solids	mg/L	04/01/21 - 07/31/24	18	0	CI around mean	648	1,200	Standard	No Exceedance
35S	UU	E006	Antimony, total	mg/L	--	--	--	--	NS ⁷	0.006	Standard	--
35S	UU	E006	Arsenic, total	mg/L	--	--	--	--	NS ⁷	0.010	Standard	--
35S	UU	E006	Barium, total	mg/L	--	--	--	--	NS ⁷	2.0	Standard	--
35S	UU	E006	Beryllium, total	mg/L	--	--	--	--	NS ⁷	0.004	Standard	--
35S	UU	E006	Boron, total	mg/L	--	--	--	--	NS ⁷	2	Standard	--
35S	UU	E006	Cadmium, total	mg/L	--	--	--	--	NS ⁷	0.005	Standard	--
35S	UU	E006	Chloride, total	mg/L	--	--	--	--	NS ⁷	200	Standard	--
35S	UU	E006	Chromium, total	mg/L	--	--	--	--	NS ⁷	0.1	Standard	--
35S	UU	E006	Cobalt, total	mg/L	--	--	--	--	NS ⁷	0.0900	Background	--
35S	UU	E006	Fluoride, total	mg/L	--	--	--	--	NS ⁷	4.0	Standard	--
35S	UU	E006	Lead, total	mg/L	--	--	--	--	NS ⁷	0.0075	Standard	--
35S	UU	E006	Lithium, total	mg/L	--	--	--	--	NS ⁷	0.04	Standard	--
35S	UU	E006	Mercury, total	mg/L	--	--	--	--	NS ⁷	0.002	Standard	--
35S	UU	E006	Molybdenum, total	mg/L	--	--	--	--	NS ⁷	0.1	Standard	--

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW 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
35S	UU	E006	pH (field)	SU	--	--	--	--	NS ⁷	6.3/9.0	Background/Standard	--
35S	UU	E006	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS ⁷	7.00	Background	--
35S	UU	E006	Selenium, total	mg/L	--	--	--	--	NS ⁷	0.05	Standard	--
35S	UU	E006	Sulfate, total	mg/L	--	--	--	--	NS ⁷	400	Standard	--
35S	UU	E006	Thallium, total	mg/L	--	--	--	--	NS ⁷	0.002	Standard	--
35S	UU	E006	Total Dissolved Solids	mg/L	--	--	--	--	NS ⁷	1,200	Standard	--
35D	BCU	E006	Antimony, total	mg/L	04/01/21 - 07/31/24	14	79	CI around median	0.001	0.006	Standard	No Exceedance
35D	BCU	E006	Arsenic, total	mg/L	04/01/21 - 07/31/24	14	14	CI around mean	0.00198	0.010	Standard	No Exceedance
35D	BCU	E006	Barium, total	mg/L	04/01/21 - 07/31/24	14	0	CB around T-S line	-0.0936	2.0	Standard	No Exceedance
35D	BCU	E006	Beryllium, total	mg/L	04/01/21 - 07/31/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
35D	BCU	E006	Boron, total	mg/L	04/01/21 - 07/31/24	14	0	CI around mean	1.69	2	Standard	No Exceedance
35D	BCU	E006	Cadmium, total	mg/L	04/01/21 - 07/31/24	14	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
35D	BCU	E006	Chloride, total	mg/L	04/01/21 - 07/31/24	14	0	CI around mean	320	200	Standard	Exceedance
35D	BCU	E006	Chromium, total	mg/L	04/01/21 - 07/31/24	14	79	CB around T-S line	0.0015	0.1	Standard	No Exceedance
35D	BCU	E006	Cobalt, total	mg/L	04/01/21 - 07/31/24	14	50	CB around linear reg	-0.00064	0.0900	Background	No Exceedance
35D	BCU	E006	Fluoride, total	mg/L	04/01/21 - 07/31/24	14	7	CI around median	0.65	4.0	Standard	No Exceedance
35D	BCU	E006	Lead, total	mg/L	04/01/21 - 07/31/24	14	57	CI around median	0.0005	0.0075	Standard	No Exceedance
35D	BCU	E006	Lithium, total	mg/L	04/01/21 - 07/31/24	14	0	CI around mean	0.117	0.04	Standard	Exceedance
35D	BCU	E006	Mercury, total	mg/L	04/01/21 - 07/31/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
35D	BCU	E006	Molybdenum, total	mg/L	04/01/21 - 07/31/24	14	36	CB around linear reg	-0.00122	0.1	Standard	No Exceedance
35D	BCU	E006	pH (field)	SU	04/01/21 - 07/31/24	18	0	CI around median	7.3/7.4	6.3/9.0	Background/Standard	No Exceedance
35D	BCU	E006	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 07/31/24	13	0	CI around mean	0.428	7.00	Background	No Exceedance
35D	BCU	E006	Selenium, total	mg/L	04/01/21 - 07/31/24	14	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
35D	BCU	E006	Sulfate, total	mg/L	04/01/21 - 07/31/24	19	0	CI around mean	1,140	400	Standard	Exceedance
35D	BCU	E006	Thallium, total	mg/L	04/01/21 - 07/31/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
35D	BCU	E006	Total Dissolved Solids	mg/L	04/01/21 - 07/31/24	19	0	CI around mean	2,790	1,200	Standard	Exceedance
70S	UU	E006	Antimony, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW 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
70S	UU	E006	Arsenic, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.001	0.010	Standard	No Exceedance
70S	UU	E006	Barium, total	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	0.0163	2.0	Standard	No Exceedance
70S	UU	E006	Beryllium, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
70S	UU	E006	Boron, total	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	0.382	2	Standard	No Exceedance
70S	UU	E006	Cadmium, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
70S	UU	E006	Chloride, total	mg/L	04/01/21 - 07/30/24	14	0	CB around linear reg	8.12	200	Standard	No Exceedance
70S	UU	E006	Chromium, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.005	0.1	Standard	No Exceedance
70S	UU	E006	Cobalt, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.001	0.0900	Background	No Exceedance
70S	UU	E006	Fluoride, total	mg/L	04/01/21 - 07/30/24	14	7	CI around median	0.14	4.0	Standard	No Exceedance
70S	UU	E006	Lead, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
70S	UU	E006	Lithium, total	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	0.0119	0.04	Standard	No Exceedance
70S	UU	E006	Mercury, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
70S	UU	E006	Molybdenum, total	mg/L	04/01/21 - 07/30/24	14	36	CI around median	0.005	0.1	Standard	No Exceedance
70S	UU	E006	pH (field)	SU	04/01/21 - 07/30/24	14	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
70S	UU	E006	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 07/30/24	13	0	CI around geomean	0.125	7.00	Background	No Exceedance
70S	UU	E006	Selenium, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
70S	UU	E006	Sulfate, total	mg/L	04/01/21 - 07/30/24	14	0	CB around linear reg	449	400	Standard	Exceedance
70S	UU	E006	Thallium, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
70S	UU	E006	Total Dissolved Solids	mg/L	04/01/21 - 07/30/24	14	0	CB around linear reg	1,020	1,200	Standard	No Exceedance
70D	BCU	E006	Antimony, total	mg/L	04/01/21 - 07/30/24	14	86	CI around median	0.001	0.006	Standard	No Exceedance
70D	BCU	E006	Arsenic, total	mg/L	04/01/21 - 07/30/24	14	64	CI around median	0.001	0.010	Standard	No Exceedance
70D	BCU	E006	Barium, total	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	0.443	2.0	Standard	No Exceedance
70D	BCU	E006	Beryllium, total	mg/L	04/01/21 - 07/30/24	14	79	CI around median	0.001	0.004	Standard	No Exceedance
70D	BCU	E006	Boron, total	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	1.2	2	Standard	No Exceedance
70D	BCU	E006	Cadmium, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
70D	BCU	E006	Chloride, total	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	522	200	Standard	Exceedance
70D	BCU	E006	Chromium, total	mg/L	04/01/21 - 07/30/24	14	43	CB around linear reg	-0.0359	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW 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
70D	BCU	E006	Cobalt, total	mg/L	04/01/21 - 07/30/24	14	7	CB around linear reg	-0.0302	0.0900	Background	No Exceedance
70D	BCU	E006	Fluoride, total	mg/L	04/01/21 - 07/30/24	14	7	CI around mean	0.41	4.0	Standard	No Exceedance
70D	BCU	E006	Lead, total	mg/L	04/01/21 - 07/30/24	14	14	CB around linear reg	-0.0226	0.0075	Standard	No Exceedance
70D	BCU	E006	Lithium, total	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	0.0803	0.04	Standard	Exceedance
70D	BCU	E006	Mercury, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
70D	BCU	E006	Molybdenum, total	mg/L	04/01/21 - 07/30/24	14	43	CB around linear reg	-0.0158	0.1	Standard	No Exceedance
70D	BCU	E006	pH (field)	SU	04/01/21 - 07/30/24	14	0	CI around mean	6.9/7.2	6.3/9.0	Background/Standard	No Exceedance
70D	BCU	E006	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 07/30/24	13	0	CI around geomean	1.29	7.00	Background	No Exceedance
70D	BCU	E006	Selenium, total	mg/L	04/01/21 - 07/30/24	14	86	CI around median	0.001	0.05	Standard	No Exceedance
70D	BCU	E006	Sulfate, total	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	45.7	400	Standard	No Exceedance
70D	BCU	E006	Thallium, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
70D	BCU	E006	Total Dissolved Solids	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	1,370	1,200	Standard	Exceedance
71S	UU	E006	Antimony, total	mg/L	04/01/21 - 07/30/24	9	100	All ND - Last	0.003	0.006	Standard	No Exceedance
71S	UU	E006	Arsenic, total	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	0.00244	0.010	Standard	No Exceedance
71S	UU	E006	Barium, total	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	0.0428	2.0	Standard	No Exceedance
71S	UU	E006	Beryllium, total	mg/L	04/01/21 - 07/30/24	9	100	All ND - Last	0.001	0.004	Standard	No Exceedance
71S	UU	E006	Boron, total	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	0.192	2	Standard	No Exceedance
71S	UU	E006	Cadmium, total	mg/L	04/01/21 - 07/30/24	9	89	CI around median	0.001	0.005	Standard	No Exceedance
71S	UU	E006	Chloride, total	mg/L	04/01/21 - 07/30/24	9	0	CI around geomean	1.75	200	Standard	No Exceedance
71S	UU	E006	Chromium, total	mg/L	04/01/21 - 07/30/24	9	89	CI around median	0.0015	0.1	Standard	No Exceedance
71S	UU	E006	Cobalt, total	mg/L	04/01/21 - 07/30/24	9	56	CI around median	0.001	0.0900	Background	No Exceedance
71S	UU	E006	Fluoride, total	mg/L	04/01/21 - 07/30/24	9	0	CB around linear reg	0.183	4.0	Standard	No Exceedance
71S	UU	E006	Lead, total	mg/L	04/01/21 - 07/30/24	9	89	CI around median	0.001	0.0075	Standard	No Exceedance
71S	UU	E006	Lithium, total	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	0.00454	0.04	Standard	No Exceedance
71S	UU	E006	Mercury, total	mg/L	04/01/21 - 07/30/24	9	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
71S	UU	E006	Molybdenum, total	mg/L	04/01/21 - 07/30/24	9	11	CI around mean	0.00228	0.1	Standard	No Exceedance
71S	UU	E006	pH (field)	SU	04/01/21 - 07/30/24	9	0	CI around mean	6.7/6.9	6.3/9.0	Background/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW 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
71S	UU	E006	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 07/30/24	9	0	CI around mean	0.217	7.00	Background	No Exceedance
71S	UU	E006	Selenium, total	mg/L	04/01/21 - 07/30/24	9	89	CI around median	0.001	0.05	Standard	No Exceedance
71S	UU	E006	Sulfate, total	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	55.9	400	Standard	No Exceedance
71S	UU	E006	Thallium, total	mg/L	04/01/21 - 07/30/24	9	89	CI around median	0.002	0.002	Standard	No Exceedance
71S	UU	E006	Total Dissolved Solids	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	479	1,200	Standard	No Exceedance
71D	BCU	E006	Antimony, total	mg/L	04/01/21 - 08/01/24	7	71	CI around median	0.001	0.006	Standard	No Exceedance
71D	BCU	E006	Arsenic, total	mg/L	04/01/21 - 08/01/24	7	57	CI around median	0.001	0.010	Standard	No Exceedance
71D	BCU	E006	Barium, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	0.162	2.0	Standard	No Exceedance
71D	BCU	E006	Beryllium, total	mg/L	04/01/21 - 08/01/24	7	86	CI around median	0.0005	0.004	Standard	No Exceedance
71D	BCU	E006	Boron, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	0.683	2	Standard	No Exceedance
71D	BCU	E006	Cadmium, total	mg/L	04/01/21 - 08/01/24	7	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
71D	BCU	E006	Chloride, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	310	200	Standard	Exceedance
71D	BCU	E006	Chromium, total	mg/L	04/01/21 - 08/01/24	7	43	CI around median	0.0028	0.1	Standard	No Exceedance
71D	BCU	E006	Cobalt, total	mg/L	04/01/21 - 08/01/24	7	43	CI around geomean	0.000539	0.0900	Background	No Exceedance
71D	BCU	E006	Fluoride, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	0.442	4.0	Standard	No Exceedance
71D	BCU	E006	Lead, total	mg/L	04/01/21 - 08/01/24	7	14	CI around geomean	0.000754	0.0075	Standard	No Exceedance
71D	BCU	E006	Lithium, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	0.0405	0.04	Standard	Exceedance
71D	BCU	E006	Mercury, total	mg/L	04/01/21 - 08/01/24	7	100	All ND - Last	0.0005	0.002	Standard	No Exceedance
71D	BCU	E006	Molybdenum, total	mg/L	04/01/21 - 08/01/24	7	43	CI around mean	0.00308	0.1	Standard	No Exceedance
71D	BCU	E006	pH (field)	SU	04/01/21 - 08/01/24	7	0	CI around mean	6.8/7.4	6.3/9.0	Background/Standard	No Exceedance
71D	BCU	E006	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS ⁷	7.00	Background	--
71D	BCU	E006	Selenium, total	mg/L	04/01/21 - 08/01/24	7	86	CI around median	0.001	0.05	Standard	No Exceedance
71D	BCU	E006	Sulfate, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	39.8	400	Standard	No Exceedance
71D	BCU	E006	Thallium, total	mg/L	04/01/21 - 08/01/24	7	100	All ND - Last	0.002	0.002	Standard	No Exceedance
71D	BCU	E006	Total Dissolved Solids	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	1,030	1,200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Notes:

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

HSU = hydrostratigraphic unit:
 BCU = Bedrock Confining Unit
 UU = Upper Unit

mg/L = milligrams per liter

Missing Code (if applicable):
 NR¹ = Select parameters were not analyzed.
 NS¹ = This well has been, or will be, abandoned; therefore, a sample was not collected.
 NS² = Well either needs or was undergoing maintenance, therefore, a sample was not collected.
 NS³ = A sample was not collected because the location was inaccessible.
 NS⁴ = The location could not be found, therefore a sample was not collected.
 NS⁵ = A sample was not collected because of damage to the well.
 NS⁶ = A sample was not collected because of pump issues.
 NS⁷ = A sample was not collected because the well was either dry or was purged dry and did not recover.
 PM¹ = Select parameters were not analyzed as the well purged dry during sample collection and did not sufficiently recover to sample for all parameters.

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

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:
 Background = background concentration
 Standard = standard specified in 35 I.A.C. § 845.600(a)(1)

FIGURES



Service Layer Credits: World Imagery: Maxar

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

0 150 300
Feet

MONITORING WELL LOCATION MAP

NEW EAST ASH POND
VERMILION POWER PLANT
OAKWOOD, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 3, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
10	Background	07/29/2024	49.09	610.17
16B	Compliance	07/29/2024	Dry	
16A	Compliance	07/29/2024	9.28	571.21
22	Background	07/29/2024	54.92	603.87
35S	Compliance	07/29/2024	12.05	572.87
35D	Compliance	07/29/2024	12.57	571.74
70S	Compliance	07/29/2024	14.05	579.86
70D	Compliance	07/29/2024	39.51	555.18
71S	Compliance	07/29/2024	11.91	567.82
71D	Compliance	07/29/2024	36.91	543.15
NED1	Water Level	07/29/2024	DM ³	

Notes:
BMP = below measuring point
Missing Code (if applicable):
DM¹ = Depth to water was not measured.
DM² = Depth to water was not measured because water was above or below the staff gage markings.
DM³ = Depth to water was not measured because the location was inaccessible.
DM⁴ = Depth to water was not measured because water level was below the top of the pump.
DM⁵ = Depth to water was not measured because water level was above the top of casing (artesian well).
DM⁶ = Depth to water was not measured because of damage to the well.
DM⁷ = Depth to water was was not measured due to malfunctioning pressure transducer.
NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 3, 2024**

ANALYTICAL REPORT

PREPARED FOR

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

Generated 08/16/24 16:23:51

JOB DESCRIPTION

VER-24Q3
VER_845_912

JOB NUMBER

500-254245-4

Eurofins Chicago

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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08/16/24 16:23:51

Authorized for release by
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Case Narrative

Client: Vistra Energy Corp
Project: VER-24Q3

Job ID: 500-254245-4

Job ID: 500-254245-4

Eurofins Chicago

Job Narrative 500-254245-4

Receipt

The samples were received on 07/30/24 12:10. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 0.2° C, 3.2° C, 3.2° C, 3.8° C, 4.1° C, 4.7° C, 4.8° C and 5.3° C.

Receipt Exceptions

Only received a plastic 1L with about 650ml for sample 26, so only logged in unpreserved tests. VER_071&D (500-254245-26)

Methods 200.7 Rev 4.4, 6020B, 7470A: The following sample was collected in an unpreserved container due to limited water volume available at well: VER_071&D (500-254245-26). The client was contacted regarding this issue, and the laboratory was instructed to pour off sample volume and preserve at the lab for metals analysis.

Method Field Sampling: Field Conductivity for the following samples was recorded on the field forms in ms (mmhos) instead of the usual us (umhos). Results have been converted to umhos to maintain consistency in reporting. VER_022 (500-254245-1), VER_070&D (500-254245-9), VER_070#S (500-254245-10), VER_071#S (500-254245-11), VER_016A (500-254245-20), VER_016A_FD (500-254245-22), VER_035&D (500-254245-23), VER_010 (500-254245-25) and VER_071&D (500-254245-26)

Method Field Sampling: For sample VER_010 (500-254245-25), per field form:

Field data collected on 07/30/24 at 1550. Well went dry at 1555 before sample volume could be collected. Sample volume for laboratory analysis was collected on 08/01/24 at 0800. Samples were logged in according to sample volume collection date/time. Field data was entered using field form collection date/time to match actual data collection.

Method Field Sampling: For sample VER_071&D (500-254245-26), per field form:

Field data collected on 07/30/24 at 1150. Well went dry at 1155 before sample volume could be collected. Limited sample volume for laboratory analysis was collected on 08/01/24 at 0850. Samples were logged in according to sample volume collection date/time. Field data was entered using field form collection date/time to match actual data collection.

Metals

Method 7470A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation/analysis: VER_071&D (500-254245-26).

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

General Chemistry

Method SM 2320B: The method blank for analytical batch 500-781135 contained Alkalinity and Bicarbonate Alkalinity as CaCO₃ above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_022

Lab Sample ID: 500-254245-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.033		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.083		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.38	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	46		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	25		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.7		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	120		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	7.4		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	29		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	400		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	460		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.40		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.24				ft	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	15.2				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-45.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.18				mg/L	1		Field Sampling	Total/NA
Specific Conductance	763				umhos/cm	1		Field Sampling	Total/NA
Turbidity	25.29				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_070&D

Lab Sample ID: 500-254245-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.093		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00042	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.32		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	1.3	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	91		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0018	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0011		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00099	B	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	49		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0029	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	6.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	400		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	410		50	5.8	mg/L	50		300.0	Total/NA
Sulfate	61		50	10	mg/L	50		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_070&D (Continued)

Lab Sample ID: 500-254245-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	520		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1400		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.45		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	39.36				ft	1		Field Sampling	Total/NA
Field pH	6.79				SU	1		Field Sampling	Total/NA
Field Temperature	15.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	148.27				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.90				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2892				umhos/cm	1		Field Sampling	Total/NA
Turbidity	18.50				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_070#S

Lab Sample ID: 500-254245-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.018		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00028	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.015		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.45	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00031	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	190		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00032	J B	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	79		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0048	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	2.0		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	19		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	9.8		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	510		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	290		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1200		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.15		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	14.10				ft	1		Field Sampling	Total/NA
Field pH	6.88				SU	1		Field Sampling	Total/NA
Field Temperature	14.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	127.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.26				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1293				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.07				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_071#S

Lab Sample ID: 500-254245-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0087		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_071#S (Continued)

Lab Sample ID: 500-254245-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0014		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.049		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.24	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	120		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0015		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00028	J B	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	53		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0029	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	0.48	J	0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	7.0		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	1.5		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	62		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	440		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	560		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.21		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	12.42				ft	1		Field Sampling	Total/NA
Field pH	6.83				SU	1		Field Sampling	Total/NA
Field Temperature	17.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	8.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.18				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1021				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.26				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_FB

Lab Sample ID: 500-254245-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.088	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Sodium	0.54		0.20	0.077	mg/L	1		6020B	Total Recoverable
Bicarbonate Alkalinity as CaCO3	6.7		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	6.0	J	10	4.3	mg/L	1		SM 2540C	Total/NA

Client Sample ID: VER_EB

Lab Sample ID: 500-254245-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.067	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	0.091	J	0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0011	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Sodium	0.54		0.20	0.077	mg/L	1		6020B	Total Recoverable
Total Dissolved Solids	18		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_016A

Lab Sample ID: 500-254245-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.036		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total Recoverable
Arsenic	0.0015		0.0010	0.00023	mg/L	1			6020B	Total Recoverable
Barium	0.30		0.0025	0.00073	mg/L	1			6020B	Total Recoverable
Boron	0.84	B	0.050	0.013	mg/L	1			6020B	Total Recoverable
Calcium	33		0.20	0.044	mg/L	1			6020B	Total Recoverable
Chromium	0.0055		0.0050	0.0011	mg/L	1			6020B	Total Recoverable
Cobalt	0.0017		0.0010	0.00040	mg/L	1			6020B	Total Recoverable
Lead	0.0015	B	0.00050	0.00019	mg/L	1			6020B	Total Recoverable
Magnesium	20		0.20	0.049	mg/L	1			6020B	Total Recoverable
Potassium	3.5		0.50	0.11	mg/L	1			6020B	Total Recoverable
Sodium	200		0.20	0.077	mg/L	1			6020B	Total Recoverable
Chloride	130		5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	2.9		1.0	0.21	mg/L	1			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	390		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	640		10	4.3	mg/L	1			SM 2540C	Total/NA
Fluoride	0.86		0.10	0.056	mg/L	1			SM 4500 F C	Total/NA
Depth to Water (ft from MP)	9.22				ft	1			Field Sampling	Total/NA
Field pH	7.65				SU	1			Field Sampling	Total/NA
Field Temperature	12.6				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	-131.1				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	1.95				mg/L	1			Field Sampling	Total/NA
Specific Conductance	1379				umhos/cm	1			Field Sampling	Total/NA
Turbidity	57.37				NTU	1			Field Sampling	Total/NA

Client Sample ID: VER_016A_FD

Lab Sample ID: 500-254245-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.037		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total Recoverable
Arsenic	0.0010		0.0010	0.00023	mg/L	1			6020B	Total Recoverable
Barium	0.29		0.0025	0.00073	mg/L	1			6020B	Total Recoverable
Boron	0.83	B	0.050	0.013	mg/L	1			6020B	Total Recoverable
Calcium	32		0.20	0.044	mg/L	1			6020B	Total Recoverable
Chromium	0.0015	J	0.0050	0.0011	mg/L	1			6020B	Total Recoverable
Cobalt	0.00079	J	0.0010	0.00040	mg/L	1			6020B	Total Recoverable
Lead	0.00066		0.00050	0.00019	mg/L	1			6020B	Total Recoverable
Magnesium	19		0.20	0.049	mg/L	1			6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_016A_FD (Continued)

Lab Sample ID: 500-254245-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	3.0		0.50	0.11	mg/L	1		6020B	Total
									Recoverable
Sodium	200		0.20	0.077	mg/L	1		6020B	Total
									Recoverable
Chloride	140		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	3.4		1.0	0.21	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	390		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	640		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.87		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	9.22				ft	1		Field Sampling	Total/NA
Field pH	7.65				SU	1		Field Sampling	Total/NA
Field Temperature	12.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-131.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.95				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1379				umhos/cm	1		Field Sampling	Total/NA
Turbidity	57.37				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_035&D

Lab Sample ID: 500-254245-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.15		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total
									Recoverable
Arsenic	0.0020		0.0010	0.00023	mg/L	1		6020B	Total
									Recoverable
Barium	0.023		0.0025	0.00073	mg/L	1		6020B	Total
									Recoverable
Boron	1.9	B	0.050	0.013	mg/L	1		6020B	Total
									Recoverable
Calcium	95		0.20	0.044	mg/L	1		6020B	Total
									Recoverable
Magnesium	81		0.20	0.049	mg/L	1		6020B	Total
									Recoverable
Molybdenum	0.0028	J	0.0050	0.0025	mg/L	1		6020B	Total
									Recoverable
Potassium	7.9		0.50	0.11	mg/L	1		6020B	Total
									Recoverable
Sodium	930		0.20	0.077	mg/L	1		6020B	Total
									Recoverable
Chloride	380		50	5.8	mg/L	50		300.0	Total/NA
Sulfate	1400		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	630		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3500		17	7.2	mg/L	1		SM 2540C	Total/NA
Fluoride	0.73		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	12.55				ft	1		Field Sampling	Total/NA
Field pH	7.27				SU	1		Field Sampling	Total/NA
Field Temperature	16.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-60.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.96				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4663				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.91				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_010

Lab Sample ID: 500-254245-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.020		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.067		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.074	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	180		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0055		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	97		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	1.5		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	9.5		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	2.7		1.0	0.12	mg/L	1		300.0	Total/NA
Sulfate	280		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	590	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1000		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.13		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.35				ft	1		Field Sampling	Total/NA
Field pH	6.66				SU	1		Field Sampling	Total/NA
Field Temperature	16.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	97.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.48				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1313				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.10				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_071&D

Lab Sample ID: 500-254245-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.11		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00026	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.25		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.78	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	22		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0018	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.00079	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00089		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	18		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	3.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	370		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	680		50	5.8	mg/L	50		300.0	Total/NA
Sulfate	42		5.0	1.0	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_071&D (Continued)

Lab Sample ID: 500-254245-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	830	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2300		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.52		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	37.89				ft	1		Field Sampling	Total/NA
Field pH	6.99				SU	1		Field Sampling	Total/NA
Field Temperature	15.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	89.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.46				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4496				umhos/cm	1		Field Sampling	Total/NA
Turbidity	23.36				NTU	1		Field Sampling	Total/NA

Client Sample ID: VER_35#S

Lab Sample ID: 500-254245-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	11.98				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

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

Sample Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254245-1	VER_022	Water	07/29/24 16:50	07/30/24 12:10
500-254245-9	VER_070&D	Water	07/30/24 09:00	07/31/24 12:35
500-254245-10	VER_070#S	Water	07/30/24 08:10	07/31/24 12:35
500-254245-11	VER_071#S	Water	07/30/24 12:28	07/31/24 12:35
500-254245-14	VER_FB	Water	07/30/24 07:00	07/31/24 12:35
500-254245-15	VER_EB	Water	07/30/24 07:00	07/31/24 12:35
500-254245-20	VER_016A	Water	07/31/24 09:05	08/01/24 12:30
500-254245-22	VER_016A_FD	Water	07/31/24 09:05	08/01/24 12:30
500-254245-23	VER_035&D	Water	07/31/24 13:05	08/01/24 12:30
500-254245-25	VER_010	Water	08/01/24 08:00	08/01/24 12:30
500-254245-26	VER_071&D	Water	08/01/24 08:50	08/01/24 12:30
500-254245-33	VER_35#S	Water	07/31/24 13:40	08/08/24 11:57

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_022

Lab Sample ID: 500-254245-1

Date Collected: 07/29/24 16:50

Matrix: Water

Date Received: 07/30/24 12:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.033		0.0050	0.0020	mg/L		08/12/24 15:47	08/13/24 12:14	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		08/13/24 09:19	08/13/24 18:38	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/13/24 09:19	08/13/24 18:38	1
Barium	0.083		0.0025	0.00073	mg/L		08/13/24 09:19	08/13/24 18:38	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:19	08/13/24 18:38	1
Boron	0.38	B	0.050	0.013	mg/L		08/13/24 09:19	08/13/24 18:38	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:19	08/13/24 18:38	1
Calcium	46		0.20	0.044	mg/L		08/13/24 09:19	08/13/24 18:38	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/13/24 09:19	08/13/24 18:38	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/13/24 09:19	08/13/24 18:38	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/13/24 09:19	08/13/24 18:38	1
Magnesium	25		0.20	0.049	mg/L		08/13/24 09:19	08/13/24 18:38	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/13/24 09:19	08/13/24 18:38	1
Potassium	2.7		0.50	0.11	mg/L		08/13/24 09:19	08/13/24 18:38	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:19	08/13/24 18:38	1
Sodium	120		0.20	0.077	mg/L		08/13/24 09:19	08/13/24 18:38	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:19	08/13/24 18:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 08:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	7.4		1.0	0.12	mg/L			08/09/24 14:13	1
Sulfate (EPA 300.0)	29		1.0	0.21	mg/L			08/09/24 14:13	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	400		5.0	3.7	mg/L			08/07/24 15:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/07/24 15:13	1
Total Dissolved Solids (SM 2540C)	460		10	4.3	mg/L			08/01/24 03:06	1
Fluoride (SM 4500 F C)	0.40		0.10	0.056	mg/L			08/14/24 14:39	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	54.24				ft			07/29/24 16:50	1
Field pH	7.33				SU			07/29/24 16:50	1
Field Temperature	15.2				Degrees C			07/29/24 16:50	1
Oxidation Reduction Potential	-45.3				millivolts			07/29/24 16:50	1
Oxygen, Dissolved	0.18				mg/L			07/29/24 16:50	1
Specific Conductance	763				umhos/cm			07/29/24 16:50	1
Turbidity	25.29				NTU			07/29/24 16:50	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_070&D

Lab Sample ID: 500-254245-9

Date Collected: 07/30/24 09:00

Matrix: Water

Date Received: 07/31/24 12:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.093		0.0050	0.0020	mg/L		08/12/24 15:47	08/13/24 13:12	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		08/13/24 09:19	08/13/24 19:07	1
Arsenic	0.00042	J	0.0010	0.00023	mg/L		08/13/24 09:19	08/13/24 19:07	1
Barium	0.32		0.0025	0.00073	mg/L		08/13/24 09:19	08/13/24 19:07	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:19	08/13/24 19:07	1
Boron	1.3	B	0.050	0.013	mg/L		08/13/24 09:19	08/13/24 19:07	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:19	08/13/24 19:07	1
Calcium	91		0.20	0.044	mg/L		08/13/24 09:19	08/13/24 19:07	1
Chromium	0.0018	J	0.0050	0.0011	mg/L		08/13/24 09:19	08/13/24 19:07	1
Cobalt	0.0011		0.0010	0.00040	mg/L		08/13/24 09:19	08/13/24 19:07	1
Lead	0.00099	B	0.00050	0.00019	mg/L		08/13/24 09:19	08/13/24 19:07	1
Magnesium	49		0.20	0.049	mg/L		08/13/24 09:19	08/13/24 19:07	1
Molybdenum	0.0029	J	0.0050	0.0025	mg/L		08/13/24 09:19	08/13/24 19:07	1
Potassium	6.4		0.50	0.11	mg/L		08/13/24 09:19	08/13/24 19:07	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:19	08/13/24 19:07	1
Sodium	400		0.20	0.077	mg/L		08/13/24 09:19	08/13/24 19:07	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:19	08/13/24 19:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 09:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	410		50	5.8	mg/L			08/09/24 19:32	50
Sulfate (EPA 300.0)	61		50	10	mg/L			08/09/24 19:32	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	520		5.0	3.7	mg/L			08/07/24 16:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/07/24 16:36	1
Total Dissolved Solids (SM 2540C)	1400		10	4.3	mg/L			08/02/24 01:37	1
Fluoride (SM 4500 F C)	0.45		0.10	0.056	mg/L			08/14/24 15:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	39.36				ft			07/30/24 09:00	1
Field pH	6.79				SU			07/30/24 09:00	1
Field Temperature	15.1				Degrees C			07/30/24 09:00	1
Oxidation Reduction Potential	148.27				millivolts			07/30/24 09:00	1
Oxygen, Dissolved	2.90				mg/L			07/30/24 09:00	1
Specific Conductance	2892				umhos/cm			07/30/24 09:00	1
Turbidity	18.50				NTU			07/30/24 09:00	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_070#S

Lab Sample ID: 500-254245-10

Date Collected: 07/30/24 08:10

Matrix: Water

Date Received: 07/31/24 12:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.018		0.0050	0.0020	mg/L		08/12/24 15:47	08/13/24 13:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/13/24 09:19	08/13/24 19:09	1
Arsenic	0.00028	J	0.0010	0.00023	mg/L		08/13/24 09:19	08/13/24 19:09	1
Barium	0.015		0.0025	0.00073	mg/L		08/13/24 09:19	08/13/24 19:09	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:19	08/13/24 19:09	1
Boron	0.45	B	0.050	0.013	mg/L		08/13/24 09:19	08/13/24 19:09	1
Cadmium	0.00031	J	0.00050	0.00017	mg/L		08/13/24 09:19	08/13/24 19:09	1
Calcium	190		0.20	0.044	mg/L		08/13/24 09:19	08/13/24 19:09	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/13/24 09:19	08/13/24 19:09	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/13/24 09:19	08/13/24 19:09	1
Lead	0.00032	J B	0.00050	0.00019	mg/L		08/13/24 09:19	08/13/24 19:09	1
Magnesium	79		0.20	0.049	mg/L		08/13/24 09:19	08/13/24 19:09	1
Molybdenum	0.0048	J	0.0050	0.0025	mg/L		08/13/24 09:19	08/13/24 19:09	1
Potassium	2.0		0.50	0.11	mg/L		08/13/24 09:19	08/13/24 19:09	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:19	08/13/24 19:09	1
Sodium	19		0.20	0.077	mg/L		08/13/24 09:19	08/13/24 19:09	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:19	08/13/24 19:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	9.8		1.0	0.12	mg/L			08/09/24 19:47	1
Sulfate (EPA 300.0)	510		50	10	mg/L			08/09/24 20:02	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	290		5.0	3.7	mg/L			08/07/24 16:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/07/24 16:50	1
Total Dissolved Solids (SM 2540C)	1200		10	4.3	mg/L			08/02/24 01:39	1
Fluoride (SM 4500 F C)	0.15		0.10	0.056	mg/L			08/14/24 15:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	14.10				ft			07/30/24 08:10	1
Field pH	6.88				SU			07/30/24 08:10	1
Field Temperature	14.5				Degrees C			07/30/24 08:10	1
Oxidation Reduction Potential	127.6				millivolts			07/30/24 08:10	1
Oxygen, Dissolved	1.26				mg/L			07/30/24 08:10	1
Specific Conductance	1293				umhos/cm			07/30/24 08:10	1
Turbidity	6.07				NTU			07/30/24 08:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_071#S

Lab Sample ID: 500-254245-11

Date Collected: 07/30/24 12:28

Matrix: Water

Date Received: 07/31/24 12:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0087		0.0050	0.0020	mg/L		08/12/24 15:47	08/13/24 13:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/13/24 09:19	08/13/24 19:11	1
Arsenic	0.0014		0.0010	0.00023	mg/L		08/13/24 09:19	08/13/24 19:11	1
Barium	0.049		0.0025	0.00073	mg/L		08/13/24 09:19	08/13/24 19:11	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:19	08/13/24 19:11	1
Boron	0.24	B	0.050	0.013	mg/L		08/13/24 09:19	08/13/24 19:11	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:19	08/13/24 19:11	1
Calcium	120		0.20	0.044	mg/L		08/13/24 09:19	08/13/24 19:11	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/13/24 09:19	08/13/24 19:11	1
Cobalt	0.0015		0.0010	0.00040	mg/L		08/13/24 09:19	08/13/24 19:11	1
Lead	0.00028	J B	0.00050	0.00019	mg/L		08/13/24 09:19	08/13/24 19:11	1
Magnesium	53		0.20	0.049	mg/L		08/13/24 09:19	08/13/24 19:11	1
Molybdenum	0.0029	J	0.0050	0.0025	mg/L		08/13/24 09:19	08/13/24 19:11	1
Potassium	0.48	J	0.50	0.11	mg/L		08/13/24 09:19	08/13/24 19:11	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:19	08/13/24 19:11	1
Sodium	7.0		0.20	0.077	mg/L		08/13/24 09:19	08/13/24 19:11	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:19	08/13/24 19:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	1.5		1.0	0.12	mg/L			08/09/24 20:17	1
Sulfate (EPA 300.0)	62		5.0	1.0	mg/L			08/09/24 20:33	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	440		5.0	3.7	mg/L			08/07/24 17:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/07/24 17:00	1
Total Dissolved Solids (SM 2540C)	560		10	4.3	mg/L			08/02/24 01:42	1
Fluoride (SM 4500 F C)	0.21		0.10	0.056	mg/L			08/14/24 15:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	12.42				ft			07/30/24 12:28	1
Field pH	6.83				SU			07/30/24 12:28	1
Field Temperature	17.1				Degrees C			07/30/24 12:28	1
Oxidation Reduction Potential	8.9				millivolts			07/30/24 12:28	1
Oxygen, Dissolved	0.18				mg/L			07/30/24 12:28	1
Specific Conductance	1021				umhos/cm			07/30/24 12:28	1
Turbidity	1.26				NTU			07/30/24 12:28	1

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_FB

Lab Sample ID: 500-254245-14

Date Collected: 07/30/24 07:00

Matrix: Water

Date Received: 07/31/24 12:35

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		08/12/24 15:47	08/13/24 13:56	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		08/13/24 09:19	08/13/24 19:30	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/13/24 09:19	08/13/24 19:30	1
Barium	<0.0025		0.0025	0.00073	mg/L		08/13/24 09:19	08/13/24 19:30	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:19	08/13/24 19:30	1
Boron	0.088	B	0.050	0.013	mg/L		08/13/24 09:19	08/14/24 15:00	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:19	08/13/24 19:30	1
Calcium	<0.20		0.20	0.044	mg/L		08/13/24 09:19	08/13/24 19:30	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/13/24 09:19	08/13/24 19:30	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/13/24 09:19	08/13/24 19:30	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/13/24 09:19	08/13/24 19:30	1
Magnesium	<0.20		0.20	0.049	mg/L		08/13/24 09:19	08/13/24 19:30	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/13/24 09:19	08/13/24 19:30	1
Potassium	<0.50		0.50	0.11	mg/L		08/13/24 09:19	08/13/24 19:30	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:19	08/13/24 19:30	1
Sodium	0.54		0.20	0.077	mg/L		08/13/24 09:19	08/13/24 19:30	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:19	08/13/24 19:30	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 09:42	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			08/10/24 15:59	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			08/10/24 15:59	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	6.7		5.0	3.7	mg/L			08/07/24 17:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/07/24 17:51	1
Total Dissolved Solids (SM 2540C)	6.0	J	10	4.3	mg/L			08/02/24 02:49	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			08/14/24 15:57	1

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_EB

Lab Sample ID: 500-254245-15

Date Collected: 07/30/24 07:00

Matrix: Water

Date Received: 07/31/24 12:35

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		08/12/24 15:47	08/13/24 14:00	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		08/13/24 09:19	08/13/24 19:32	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/13/24 09:19	08/13/24 19:32	1
Barium	<0.0025		0.0025	0.00073	mg/L		08/13/24 09:19	08/13/24 19:32	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:19	08/13/24 19:32	1
Boron	0.067	B	0.050	0.013	mg/L		08/13/24 09:19	08/14/24 15:02	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:19	08/13/24 19:32	1
Calcium	0.091	J	0.20	0.044	mg/L		08/13/24 09:19	08/13/24 19:32	1
Chromium	0.0011	J	0.0050	0.0011	mg/L		08/13/24 09:19	08/13/24 19:32	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/13/24 09:19	08/13/24 19:32	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/13/24 09:19	08/13/24 19:32	1
Magnesium	<0.20		0.20	0.049	mg/L		08/13/24 09:19	08/13/24 19:32	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/13/24 09:19	08/13/24 19:32	1
Potassium	<0.50		0.50	0.11	mg/L		08/13/24 09:19	08/13/24 19:32	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:19	08/13/24 19:32	1
Sodium	0.54		0.20	0.077	mg/L		08/13/24 09:19	08/13/24 19:32	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:19	08/13/24 19:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 09:44	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			08/10/24 16:14	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			08/10/24 16:14	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/07/24 17:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/07/24 17:55	1
Total Dissolved Solids (SM 2540C)	18		10	4.3	mg/L			08/02/24 02:51	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			08/14/24 16:03	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_016A

Lab Sample ID: 500-254245-20

Date Collected: 07/31/24 09:05

Matrix: Water

Date Received: 08/01/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.036		0.0050	0.0020	mg/L		08/12/24 15:55	08/13/24 15:03	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		08/13/24 09:19	08/13/24 20:06	1
Arsenic	0.0015		0.0010	0.00023	mg/L		08/13/24 09:19	08/13/24 20:06	1
Barium	0.30		0.0025	0.00073	mg/L		08/13/24 09:19	08/13/24 20:06	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:19	08/13/24 20:06	1
Boron	0.84	B	0.050	0.013	mg/L		08/13/24 09:19	08/14/24 15:18	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:19	08/13/24 20:06	1
Calcium	33		0.20	0.044	mg/L		08/13/24 09:19	08/13/24 20:06	1
Chromium	0.0055		0.0050	0.0011	mg/L		08/13/24 09:19	08/13/24 20:06	1
Cobalt	0.0017		0.0010	0.00040	mg/L		08/13/24 09:19	08/13/24 20:06	1
Lead	0.0015	B	0.00050	0.00019	mg/L		08/13/24 09:19	08/13/24 20:06	1
Magnesium	20		0.20	0.049	mg/L		08/13/24 09:19	08/13/24 20:06	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/13/24 09:19	08/13/24 20:06	1
Potassium	3.5		0.50	0.11	mg/L		08/13/24 09:19	08/13/24 20:06	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:19	08/13/24 20:06	1
Sodium	200		0.20	0.077	mg/L		08/13/24 09:19	08/13/24 20:06	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:19	08/13/24 20:06	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	130		5.0	0.58	mg/L			08/08/24 21:47	5
Sulfate (EPA 300.0)	2.9		1.0	0.21	mg/L			08/10/24 16:59	1
Bicarbonate Alkalinity as CaCO ₃ (SM 2320B)	390		5.0	3.7	mg/L			08/07/24 18:38	1
Carbonate Alkalinity as CaCO ₃ (SM 2320B)	<5.0		5.0	3.7	mg/L			08/07/24 18:38	1
Total Dissolved Solids (SM 2540C)	640		10	4.3	mg/L			08/04/24 23:02	1
Fluoride (SM 4500 F C)	0.86		0.10	0.056	mg/L			08/14/24 16:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	9.22				ft			07/31/24 09:05	1
Field pH	7.65				SU			07/31/24 09:05	1
Field Temperature	12.6				Degrees C			07/31/24 09:05	1
Oxidation Reduction Potential	-131.1				millivolts			07/31/24 09:05	1
Oxygen, Dissolved	1.95				mg/L			07/31/24 09:05	1
Specific Conductance	1379				umhos/cm			07/31/24 09:05	1
Turbidity	57.37				NTU			07/31/24 09:05	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_016A_FD

Lab Sample ID: 500-254245-22

Date Collected: 07/31/24 09:05

Matrix: Water

Date Received: 08/01/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.037		0.0050	0.0020	mg/L		08/12/24 15:55	08/13/24 15:12	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		08/13/24 09:22	08/13/24 20:31	1
Arsenic	0.0010		0.0010	0.00023	mg/L		08/13/24 09:22	08/13/24 20:31	1
Barium	0.29		0.0025	0.00073	mg/L		08/13/24 09:22	08/13/24 20:31	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:22	08/13/24 20:31	1
Boron	0.83	B	0.050	0.013	mg/L		08/13/24 09:22	08/14/24 13:47	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:22	08/13/24 20:31	1
Calcium	32		0.20	0.044	mg/L		08/13/24 09:22	08/13/24 20:31	1
Chromium	0.0015	J	0.0050	0.0011	mg/L		08/13/24 09:22	08/13/24 20:31	1
Cobalt	0.00079	J	0.0010	0.00040	mg/L		08/13/24 09:22	08/13/24 20:31	1
Lead	0.00066		0.00050	0.00019	mg/L		08/13/24 09:22	08/13/24 20:31	1
Magnesium	19		0.20	0.049	mg/L		08/13/24 09:22	08/13/24 20:31	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/13/24 09:22	08/13/24 20:31	1
Potassium	3.0		0.50	0.11	mg/L		08/13/24 09:22	08/13/24 20:31	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:22	08/13/24 20:31	1
Sodium	200		0.20	0.077	mg/L		08/13/24 09:22	08/13/24 20:31	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:22	08/13/24 20:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 07:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	140		5.0	0.58	mg/L			08/08/24 22:32	5
Sulfate (EPA 300.0)	3.4		1.0	0.21	mg/L			08/10/24 17:45	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	390		5.0	3.7	mg/L			08/07/24 18:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/07/24 18:58	1
Total Dissolved Solids (SM 2540C)	640		10	4.3	mg/L			08/04/24 23:07	1
Fluoride (SM 4500 F C)	0.87		0.10	0.056	mg/L			08/14/24 17:08	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	9.22				ft			07/31/24 09:05	1
Field pH	7.65				SU			07/31/24 09:05	1
Field Temperature	12.6				Degrees C			07/31/24 09:05	1
Oxidation Reduction Potential	-131.1				millivolts			07/31/24 09:05	1
Oxygen, Dissolved	1.95				mg/L			07/31/24 09:05	1
Specific Conductance	1379				umhos/cm			07/31/24 09:05	1
Turbidity	57.37				NTU			07/31/24 09:05	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_035&D

Lab Sample ID: 500-254245-23

Date Collected: 07/31/24 13:05

Matrix: Water

Date Received: 08/01/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.15		0.0050	0.0020	mg/L		08/12/24 15:55	08/13/24 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/13/24 09:22	08/13/24 20:33	1
Arsenic	0.0020		0.0010	0.00023	mg/L		08/13/24 09:22	08/13/24 20:33	1
Barium	0.023		0.0025	0.00073	mg/L		08/13/24 09:22	08/13/24 20:33	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:22	08/13/24 20:33	1
Boron	1.9	B	0.050	0.013	mg/L		08/13/24 09:22	08/14/24 13:49	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:22	08/13/24 20:33	1
Calcium	95		0.20	0.044	mg/L		08/13/24 09:22	08/13/24 20:33	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/13/24 09:22	08/13/24 20:33	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/13/24 09:22	08/13/24 20:33	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/13/24 09:22	08/13/24 20:33	1
Magnesium	81		0.20	0.049	mg/L		08/13/24 09:22	08/13/24 20:33	1
Molybdenum	0.0028	J	0.0050	0.0025	mg/L		08/13/24 09:22	08/13/24 20:33	1
Potassium	7.9		0.50	0.11	mg/L		08/13/24 09:22	08/13/24 20:33	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:22	08/13/24 20:33	1
Sodium	930		0.20	0.077	mg/L		08/13/24 09:22	08/13/24 20:33	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:22	08/13/24 20:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 07:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	380		50	5.8	mg/L			08/08/24 22:48	50
Sulfate (EPA 300.0)	1400		50	10	mg/L			08/08/24 22:48	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	630		5.0	3.7	mg/L			08/07/24 19:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/07/24 19:08	1
Total Dissolved Solids (SM 2540C)	3500		17	7.2	mg/L			08/04/24 23:10	1
Fluoride (SM 4500 F C)	0.73		0.10	0.056	mg/L			08/14/24 17:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	12.55				ft			07/31/24 13:05	1
Field pH	7.27				SU			07/31/24 13:05	1
Field Temperature	16.9				Degrees C			07/31/24 13:05	1
Oxidation Reduction Potential	-60.9				millivolts			07/31/24 13:05	1
Oxygen, Dissolved	0.96				mg/L			07/31/24 13:05	1
Specific Conductance	4663				umhos/cm			07/31/24 13:05	1
Turbidity	8.91				NTU			07/31/24 13:05	1

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Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_010

Lab Sample ID: 500-254245-25

Date Collected: 08/01/24 08:00

Matrix: Water

Date Received: 08/01/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.020		0.0050	0.0020	mg/L		08/12/24 15:55	08/13/24 15:52	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		08/13/24 09:22	08/13/24 20:46	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/13/24 09:22	08/13/24 20:46	1
Barium	0.067		0.0025	0.00073	mg/L		08/13/24 09:22	08/13/24 20:46	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:22	08/13/24 20:46	1
Boron	0.074	B	0.050	0.013	mg/L		08/13/24 09:22	08/14/24 13:54	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:22	08/13/24 20:46	1
Calcium	180		0.20	0.044	mg/L		08/13/24 09:22	08/13/24 20:46	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/13/24 09:22	08/13/24 20:46	1
Cobalt	0.0055		0.0010	0.00040	mg/L		08/13/24 09:22	08/13/24 20:46	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/13/24 09:22	08/13/24 20:46	1
Magnesium	97		0.20	0.049	mg/L		08/13/24 09:22	08/13/24 20:46	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/13/24 09:22	08/13/24 20:46	1
Potassium	1.5		0.50	0.11	mg/L		08/13/24 09:22	08/13/24 20:46	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:22	08/13/24 20:46	1
Sodium	9.5		0.20	0.077	mg/L		08/13/24 09:22	08/13/24 20:46	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:22	08/13/24 20:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 07:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	2.7		1.0	0.12	mg/L			08/08/24 23:33	1
Sulfate (EPA 300.0)	280		10	2.1	mg/L			08/08/24 23:48	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	590	B	5.0	3.7	mg/L			08/12/24 17:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/12/24 17:30	1
Total Dissolved Solids (SM 2540C)	1000		10	4.3	mg/L			08/04/24 23:15	1
Fluoride (SM 4500 F C)	0.13		0.10	0.056	mg/L			08/14/24 17:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	53.35				ft			07/30/24 15:50	1
Field pH	6.66				SU			07/30/24 15:50	1
Field Temperature	16.8				Degrees C			07/30/24 15:50	1
Oxidation Reduction Potential	97.3				millivolts			07/30/24 15:50	1
Oxygen, Dissolved	1.48				mg/L			07/30/24 15:50	1
Specific Conductance	1313				umhos/cm			07/30/24 15:50	1
Turbidity	9.10				NTU			07/30/24 15:50	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_071&D

Lab Sample ID: 500-254245-26

Date Collected: 08/01/24 08:50

Matrix: Water

Date Received: 08/01/24 12:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.11		0.0050	0.0020	mg/L		08/12/24 15:55	08/13/24 15:57	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		08/13/24 09:22	08/13/24 20:49	1
Arsenic	0.00026	J	0.0010	0.00023	mg/L		08/13/24 09:22	08/13/24 20:49	1
Barium	0.25		0.0025	0.00073	mg/L		08/13/24 09:22	08/13/24 20:49	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:22	08/13/24 20:49	1
Boron	0.78	B	0.050	0.013	mg/L		08/13/24 09:22	08/14/24 13:56	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:22	08/13/24 20:49	1
Calcium	22		0.20	0.044	mg/L		08/13/24 09:22	08/13/24 20:49	1
Chromium	0.0018	J	0.0050	0.0011	mg/L		08/13/24 09:22	08/13/24 20:49	1
Cobalt	0.00079	J	0.0010	0.00040	mg/L		08/13/24 09:22	08/13/24 20:49	1
Lead	0.00089		0.00050	0.00019	mg/L		08/13/24 09:22	08/13/24 20:49	1
Magnesium	18		0.20	0.049	mg/L		08/13/24 09:22	08/13/24 20:49	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/13/24 09:22	08/13/24 20:49	1
Potassium	3.2		0.50	0.11	mg/L		08/13/24 09:22	08/13/24 20:49	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:22	08/13/24 20:49	1
Sodium	370		0.20	0.077	mg/L		08/13/24 09:22	08/13/24 20:49	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:22	08/13/24 20:49	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00050		0.00050	0.00019	mg/L		08/14/24 11:40	08/15/24 07:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	680		50	5.8	mg/L			08/10/24 18:00	50
Sulfate (EPA 300.0)	42		5.0	1.0	mg/L			08/09/24 00:03	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	830	B	5.0	3.7	mg/L			08/12/24 17:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/12/24 17:40	1
Total Dissolved Solids (SM 2540C)	2300		10	4.3	mg/L			08/07/24 22:32	1
Fluoride (SM 4500 F C)	0.52		0.10	0.056	mg/L			08/14/24 17:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	37.89				ft			07/30/24 11:50	1
Field pH	6.99				SU			07/30/24 11:50	1
Field Temperature	15.8				Degrees C			07/30/24 11:50	1
Oxidation Reduction Potential	89.3				millivolts			07/30/24 11:50	1
Oxygen, Dissolved	0.46				mg/L			07/30/24 11:50	1
Specific Conductance	4496				umhos/cm			07/30/24 11:50	1
Turbidity	23.36				NTU			07/30/24 11:50	1

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Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_35#S

Lab Sample ID: 500-254245-33

Date Collected: 07/31/24 13:40

Matrix: Water

Date Received: 08/08/24 11:57

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	11.98				ft			07/31/24 13:40	1

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Qualifiers

Metals

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

General Chemistry

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

Glossary

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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q3Job ID: 500-254245-4
SDG: VER_845_912

Metals

Prep Batch: 781005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total Recoverable	Water	200.7	
500-254245-9	VER_070&D	Total Recoverable	Water	200.7	
500-254245-10	VER_070#S	Total Recoverable	Water	200.7	
500-254245-11	VER_071#S	Total Recoverable	Water	200.7	
500-254245-14	VER_FB	Total Recoverable	Water	200.7	
500-254245-15	VER_EB	Total Recoverable	Water	200.7	
MB 500-781005/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-781005/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-254245-10 MS	VER_070#S	Total Recoverable	Water	200.7	
500-254245-10 DU	VER_070#S	Total Recoverable	Water	200.7	

Prep Batch: 781009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-20	VER_016A	Total Recoverable	Water	200.7	
500-254245-22	VER_016A_FD	Total Recoverable	Water	200.7	
500-254245-23	VER_035&D	Total Recoverable	Water	200.7	
500-254245-25	VER_010	Total Recoverable	Water	200.7	
500-254245-26	VER_071&D	Total Recoverable	Water	200.7	
MB 500-781009/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-781009/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 781120

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total Recoverable	Water	3005A	
500-254245-9	VER_070&D	Total Recoverable	Water	3005A	
500-254245-10	VER_070#S	Total Recoverable	Water	3005A	
500-254245-11	VER_071#S	Total Recoverable	Water	3005A	
500-254245-14	VER_FB	Total Recoverable	Water	3005A	
500-254245-15	VER_EB	Total Recoverable	Water	3005A	
500-254245-20	VER_016A	Total Recoverable	Water	3005A	
MB 500-781120/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781120/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 781122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-22	VER_016A_FD	Total Recoverable	Water	3005A	
500-254245-23	VER_035&D	Total Recoverable	Water	3005A	
500-254245-25	VER_010	Total Recoverable	Water	3005A	
500-254245-26	VER_071&D	Total Recoverable	Water	3005A	
MB 500-781122/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-781122/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 781316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total Recoverable	Water	200.7 Rev 4.4	781005
500-254245-9	VER_070&D	Total Recoverable	Water	200.7 Rev 4.4	781005
500-254245-10	VER_070#S	Total Recoverable	Water	200.7 Rev 4.4	781005
500-254245-11	VER_071#S	Total Recoverable	Water	200.7 Rev 4.4	781005
500-254245-14	VER_FB	Total Recoverable	Water	200.7 Rev 4.4	781005
500-254245-15	VER_EB	Total Recoverable	Water	200.7 Rev 4.4	781005
500-254245-20	VER_016A	Total Recoverable	Water	200.7 Rev 4.4	781009

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Metals (Continued)

Analysis Batch: 781316 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-22	VER_016A_FD	Total Recoverable	Water	200.7 Rev 4.4	781009
500-254245-23	VER_035&D	Total Recoverable	Water	200.7 Rev 4.4	781009
500-254245-25	VER_010	Total Recoverable	Water	200.7 Rev 4.4	781009
500-254245-26	VER_071&D	Total Recoverable	Water	200.7 Rev 4.4	781009
MB 500-781005/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	781005
MB 500-781009/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	781009
LCS 500-781005/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	781005
LCS 500-781009/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	781009
500-254245-10 MS	VER_070#S	Total Recoverable	Water	200.7 Rev 4.4	781005
500-254245-10 DU	VER_070#S	Total Recoverable	Water	200.7 Rev 4.4	781005

Analysis Batch: 781318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total Recoverable	Water	6020B	781120
500-254245-9	VER_070&D	Total Recoverable	Water	6020B	781120
500-254245-10	VER_070#S	Total Recoverable	Water	6020B	781120
500-254245-11	VER_071#S	Total Recoverable	Water	6020B	781120
500-254245-14	VER_FB	Total Recoverable	Water	6020B	781120
500-254245-15	VER_EB	Total Recoverable	Water	6020B	781120
500-254245-20	VER_016A	Total Recoverable	Water	6020B	781120
500-254245-22	VER_016A_FD	Total Recoverable	Water	6020B	781122
500-254245-23	VER_035&D	Total Recoverable	Water	6020B	781122
500-254245-25	VER_010	Total Recoverable	Water	6020B	781122
500-254245-26	VER_071&D	Total Recoverable	Water	6020B	781122
MB 500-781120/1-A	Method Blank	Total Recoverable	Water	6020B	781120
MB 500-781122/1-A	Method Blank	Total Recoverable	Water	6020B	781122
LCS 500-781120/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781120
LCS 500-781122/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781122

Prep Batch: 781384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total/NA	Water	7470A	
500-254245-9	VER_070&D	Total/NA	Water	7470A	
500-254245-10	VER_070#S	Total/NA	Water	7470A	
500-254245-11	VER_071#S	Total/NA	Water	7470A	
500-254245-14	VER_FB	Total/NA	Water	7470A	
500-254245-15	VER_EB	Total/NA	Water	7470A	
500-254245-20	VER_016A	Total/NA	Water	7470A	
MB 500-781384/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-781384/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 781386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-22	VER_016A_FD	Total/NA	Water	7470A	
500-254245-23	VER_035&D	Total/NA	Water	7470A	
500-254245-25	VER_010	Total/NA	Water	7470A	
500-254245-26	VER_071&D	Total/NA	Water	7470A	
MB 500-781386/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-781386/13-A	Lab Control Sample	Total/NA	Water	7470A	

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Metals

Analysis Batch: 781422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-22	VER_016A_FD	Total Recoverable	Water	6020B	781122
500-254245-23	VER_035&D	Total Recoverable	Water	6020B	781122
500-254245-25	VER_010	Total Recoverable	Water	6020B	781122
500-254245-26	VER_071&D	Total Recoverable	Water	6020B	781122
MB 500-781122/1-A	Method Blank	Total Recoverable	Water	6020B	781122
LCS 500-781122/2-A	Lab Control Sample	Total Recoverable	Water	6020B	781122

Analysis Batch: 781573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-14	VER_FB	Total Recoverable	Water	6020B	781120
500-254245-15	VER_EB	Total Recoverable	Water	6020B	781120
500-254245-20	VER_016A	Total Recoverable	Water	6020B	781120

Analysis Batch: 781636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total/NA	Water	7470A	781384
500-254245-9	VER_070&D	Total/NA	Water	7470A	781384
500-254245-10	VER_070#S	Total/NA	Water	7470A	781384
500-254245-11	VER_071#S	Total/NA	Water	7470A	781384
500-254245-14	VER_FB	Total/NA	Water	7470A	781384
500-254245-15	VER_EB	Total/NA	Water	7470A	781384
500-254245-20	VER_016A	Total/NA	Water	7470A	781384
500-254245-22	VER_016A_FD	Total/NA	Water	7470A	781386
500-254245-23	VER_035&D	Total/NA	Water	7470A	781386
500-254245-25	VER_010	Total/NA	Water	7470A	781386
500-254245-26	VER_071&D	Total/NA	Water	7470A	781386
MB 500-781384/12-A	Method Blank	Total/NA	Water	7470A	781384
MB 500-781386/12-A	Method Blank	Total/NA	Water	7470A	781386
LCS 500-781384/13-A	Lab Control Sample	Total/NA	Water	7470A	781384
LCS 500-781386/13-A	Lab Control Sample	Total/NA	Water	7470A	781386

General Chemistry

Analysis Batch: 779370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total/NA	Water	SM 2540C	
MB 500-779370/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779370/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-9	VER_070&D	Total/NA	Water	SM 2540C	
500-254245-10	VER_070#S	Total/NA	Water	SM 2540C	
500-254245-11	VER_071#S	Total/NA	Water	SM 2540C	
MB 500-779570/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779570/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-14	VER_FB	Total/NA	Water	SM 2540C	
500-254245-15	VER_EB	Total/NA	Water	SM 2540C	

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Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

General Chemistry (Continued)

Analysis Batch: 779571 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-779571/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779571/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 779809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-20	VER_016A	Total/NA	Water	SM 2540C	
500-254245-22	VER_016A_FD	Total/NA	Water	SM 2540C	
500-254245-23	VER_035&D	Total/NA	Water	SM 2540C	
500-254245-25	VER_010	Total/NA	Water	SM 2540C	
MB 500-779809/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-779809/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-26	VER_071&D	Total/NA	Water	SM 2540C	
MB 500-780360/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-780360/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total/NA	Water	SM 2320B	
500-254245-9	VER_070&D	Total/NA	Water	SM 2320B	
500-254245-10	VER_070#S	Total/NA	Water	SM 2320B	
500-254245-11	VER_071#S	Total/NA	Water	SM 2320B	
500-254245-14	VER_FB	Total/NA	Water	SM 2320B	
500-254245-15	VER_EB	Total/NA	Water	SM 2320B	
500-254245-20	VER_016A	Total/NA	Water	SM 2320B	
500-254245-22	VER_016A_FD	Total/NA	Water	SM 2320B	
500-254245-23	VER_035&D	Total/NA	Water	SM 2320B	
MB 500-780451/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-780451/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-780451/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-780451/4	Lab Control Sample	Total/NA	Water	SM 2320B	
500-254245-11 DU	VER_071#S	Total/NA	Water	SM 2320B	

Analysis Batch: 780563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total/NA	Water	300.0	
500-254245-9	VER_070&D	Total/NA	Water	300.0	
500-254245-10	VER_070#S	Total/NA	Water	300.0	
500-254245-10	VER_070#S	Total/NA	Water	300.0	
500-254245-11	VER_071#S	Total/NA	Water	300.0	
500-254245-11	VER_071#S	Total/NA	Water	300.0	
500-254245-20	VER_016A	Total/NA	Water	300.0	
500-254245-22	VER_016A_FD	Total/NA	Water	300.0	
500-254245-23	VER_035&D	Total/NA	Water	300.0	
500-254245-25	VER_010	Total/NA	Water	300.0	
500-254245-25	VER_010	Total/NA	Water	300.0	
500-254245-26	VER_071&D	Total/NA	Water	300.0	
MB 500-780563/3	Method Blank	Total/NA	Water	300.0	
MB 500-780563/67	Method Blank	Total/NA	Water	300.0	

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Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

General Chemistry (Continued)

Analysis Batch: 780563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-780563/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-780563/68	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-14	VER_FB	Total/NA	Water	300.0	
500-254245-15	VER_EB	Total/NA	Water	300.0	
500-254245-20	VER_016A	Total/NA	Water	300.0	
500-254245-22	VER_016A_FD	Total/NA	Water	300.0	
500-254245-26	VER_071&D	Total/NA	Water	300.0	
MB 500-780794/3	Method Blank	Total/NA	Water	300.0	
LCS 500-780794/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-25	VER_010	Total/NA	Water	SM 2320B	
500-254245-26	VER_071&D	Total/NA	Water	SM 2320B	
MB 500-781135/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781135/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 781571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total/NA	Water	SM 4500 F C	
500-254245-9	VER_070&D	Total/NA	Water	SM 4500 F C	
500-254245-10	VER_070#S	Total/NA	Water	SM 4500 F C	
500-254245-11	VER_071#S	Total/NA	Water	SM 4500 F C	
500-254245-14	VER_FB	Total/NA	Water	SM 4500 F C	
500-254245-15	VER_EB	Total/NA	Water	SM 4500 F C	
500-254245-20	VER_016A	Total/NA	Water	SM 4500 F C	
500-254245-22	VER_016A_FD	Total/NA	Water	SM 4500 F C	
500-254245-23	VER_035&D	Total/NA	Water	SM 4500 F C	
500-254245-25	VER_010	Total/NA	Water	SM 4500 F C	
500-254245-26	VER_071&D	Total/NA	Water	SM 4500 F C	
MB 500-781571/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-781571/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-781571/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-781571/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 780497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total/NA	Water	Field Sampling	
500-254245-9	VER_070&D	Total/NA	Water	Field Sampling	
500-254245-10	VER_070#S	Total/NA	Water	Field Sampling	
500-254245-11	VER_071#S	Total/NA	Water	Field Sampling	
500-254245-20	VER_016A	Total/NA	Water	Field Sampling	
500-254245-22	VER_016A_FD	Total/NA	Water	Field Sampling	
500-254245-23	VER_035&D	Total/NA	Water	Field Sampling	
500-254245-25	VER_010	Total/NA	Water	Field Sampling	
500-254245-26	VER_071&D	Total/NA	Water	Field Sampling	

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Field Service / Mobile Lab (Continued)

Analysis Batch: 780497 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-33	VER_35#S	Total/NA	Water	Field Sampling	

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

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-781005/1-A
Matrix: Water
Analysis Batch: 781316

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		08/12/24 15:47	08/13/24 11:57	1

Lab Sample ID: LCS 500-781005/2-A
Matrix: Water
Analysis Batch: 781316

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.236		mg/L		94	85 - 115

Lab Sample ID: 500-254245-10 MS
Matrix: Water
Analysis Batch: 781316

Client Sample ID: VER_070#S
Prep Type: Total Recoverable
Prep Batch: 781005

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.018		0.250	0.288		mg/L		108	70 - 130

Lab Sample ID: 500-254245-10 DU
Matrix: Water
Analysis Batch: 781316

Client Sample ID: VER_070#S
Prep Type: Total Recoverable
Prep Batch: 781005

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.018		0.0183		mg/L		1	20

Lab Sample ID: MB 500-781009/1-A
Matrix: Water
Analysis Batch: 781316

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		08/12/24 15:55	08/13/24 14:15	1

Lab Sample ID: LCS 500-781009/2-A
Matrix: Water
Analysis Batch: 781316

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781009

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

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-781120/1-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/13/24 09:19	08/13/24 18:33	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/13/24 09:19	08/13/24 18:33	1
Barium	<0.0025		0.0025	0.00073	mg/L		08/13/24 09:19	08/13/24 18:33	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:19	08/13/24 18:33	1
Boron	0.0311	J	0.050	0.013	mg/L		08/13/24 09:19	08/13/24 18:33	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:19	08/13/24 18:33	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

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

Lab Sample ID: MB 500-781120/1-A

Matrix: Water

Analysis Batch: 781318

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 781120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	<0.20		0.20	0.044	mg/L		08/13/24 09:19	08/13/24 18:33	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/13/24 09:19	08/13/24 18:33	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/13/24 09:19	08/13/24 18:33	1
Lead	0.000391	J	0.00050	0.00019	mg/L		08/13/24 09:19	08/13/24 18:33	1
Magnesium	<0.20		0.20	0.049	mg/L		08/13/24 09:19	08/13/24 18:33	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/13/24 09:19	08/13/24 18:33	1
Potassium	<0.50		0.50	0.11	mg/L		08/13/24 09:19	08/13/24 18:33	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:19	08/13/24 18:33	1
Sodium	<0.20		0.20	0.077	mg/L		08/13/24 09:19	08/13/24 18:33	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:19	08/13/24 18:33	1

Lab Sample ID: LCS 500-781120/2-A

Matrix: Water

Analysis Batch: 781318

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 781120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.491		mg/L		98	80 - 120
Arsenic	0.100	0.100		mg/L		100	80 - 120
Barium	0.500	0.527		mg/L		105	80 - 120
Beryllium	0.0500	0.0514		mg/L		103	80 - 120
Boron	1.00	1.02		mg/L		102	80 - 120
Cadmium	0.0500	0.0504		mg/L		101	80 - 120
Calcium	10.0	8.73		mg/L		87	80 - 120
Chromium	0.200	0.203		mg/L		102	80 - 120
Cobalt	0.500	0.511		mg/L		102	80 - 120
Lead	0.100	0.101		mg/L		101	80 - 120
Magnesium	10.0	10.5		mg/L		105	80 - 120
Molybdenum	1.00	0.973		mg/L		97	80 - 120
Potassium	10.0	10.5		mg/L		105	80 - 120
Selenium	0.100	0.103		mg/L		103	80 - 120
Sodium	10.0	10.4		mg/L		104	80 - 120
Thallium	0.100	0.103		mg/L		103	80 - 120

Lab Sample ID: MB 500-781122/1-A

Matrix: Water

Analysis Batch: 781318

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 781122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/13/24 09:22	08/13/24 20:15	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/13/24 09:22	08/13/24 20:15	1
Barium	<0.0025		0.0025	0.00073	mg/L		08/13/24 09:22	08/13/24 20:15	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/13/24 09:22	08/13/24 20:15	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/13/24 09:22	08/13/24 20:15	1
Calcium	<0.20		0.20	0.044	mg/L		08/13/24 09:22	08/13/24 20:15	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/13/24 09:22	08/13/24 20:15	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/13/24 09:22	08/13/24 20:15	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/13/24 09:22	08/13/24 20:15	1
Magnesium	<0.20		0.20	0.049	mg/L		08/13/24 09:22	08/13/24 20:15	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/13/24 09:22	08/13/24 20:15	1

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Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

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

Lab Sample ID: MB 500-781122/1-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	<0.50		0.50	0.11	mg/L		08/13/24 09:22	08/13/24 20:15	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/13/24 09:22	08/13/24 20:15	1
Sodium	<0.20		0.20	0.077	mg/L		08/13/24 09:22	08/13/24 20:15	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/13/24 09:22	08/13/24 20:15	1

Lab Sample ID: MB 500-781122/1-A
Matrix: Water
Analysis Batch: 781422

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 781122

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0235	J	0.050	0.013	mg/L		08/13/24 09:22	08/14/24 13:25	1

Lab Sample ID: LCS 500-781122/2-A
Matrix: Water
Analysis Batch: 781318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.490		mg/L		98	80 - 120
Arsenic	0.100	0.0951		mg/L		95	80 - 120
Barium	0.500	0.508		mg/L		102	80 - 120
Beryllium	0.0500	0.0514		mg/L		103	80 - 120
Cadmium	0.0500	0.0491		mg/L		98	80 - 120
Calcium	10.0	8.17		mg/L		82	80 - 120
Chromium	0.200	0.207		mg/L		103	80 - 120
Cobalt	0.500	0.523		mg/L		105	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Magnesium	10.0	10.1		mg/L		101	80 - 120
Molybdenum	1.00	0.955		mg/L		95	80 - 120
Potassium	10.0	10.1		mg/L		101	80 - 120
Selenium	0.100	0.0943		mg/L		94	80 - 120
Sodium	10.0	10.0		mg/L		100	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Lab Sample ID: LCS 500-781122/2-A
Matrix: Water
Analysis Batch: 781422

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 781122

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.06		mg/L		106	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-781384/12-A
Matrix: Water
Analysis Batch: 781636

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 781384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 08:44	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

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

Lab Sample ID: LCS 500-781384/13-A

Matrix: Water

Analysis Batch: 781636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 781384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00204		mg/L		102	80 - 120

Lab Sample ID: MB 500-781386/12-A

Matrix: Water

Analysis Batch: 781636

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 781386

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/14/24 11:40	08/15/24 07:30	1

Lab Sample ID: LCS 500-781386/13-A

Matrix: Water

Analysis Batch: 781636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 781386

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00207		mg/L		104	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-780563/3

Matrix: Water

Analysis Batch: 780563

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			08/08/24 18:45	1
Sulfate	<1.0		1.0	0.21	mg/L			08/08/24 18:45	1

Lab Sample ID: MB 500-780563/67

Matrix: Water

Analysis Batch: 780563

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			08/09/24 10:56	1
Sulfate	<1.0		1.0	0.21	mg/L			08/09/24 10:56	1

Lab Sample ID: LCS 500-780563/4

Matrix: Water

Analysis Batch: 780563

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
Sulfate	20.0	20.4		mg/L		102	90 - 110

Lab Sample ID: LCS 500-780563/68

Matrix: Water

Analysis Batch: 780563

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
Sulfate	20.0	20.6		mg/L		103	90 - 110

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-780794/3

Matrix: Water

Analysis Batch: 780794

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			08/10/24 11:41	1
Sulfate	<1.0		1.0	0.21	mg/L			08/10/24 11:41	1

Lab Sample ID: LCS 500-780794/4

Matrix: Water

Analysis Batch: 780794

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
Sulfate	20.0	20.8		mg/L		104	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-780451/28

Matrix: Water

Analysis Batch: 780451

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			08/07/24 17:20	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			08/07/24 17:20	1

Lab Sample ID: MB 500-780451/3

Matrix: Water

Analysis Batch: 780451

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			08/07/24 13:41	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			08/07/24 13:41	1

Lab Sample ID: LCS 500-780451/29

Matrix: Water

Analysis Batch: 780451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	110		mg/L		110	80 - 120

Lab Sample ID: LCS 500-780451/4

Matrix: Water

Analysis Batch: 780451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	99.5		mg/L		100	80 - 120

Lab Sample ID: 500-254245-11 DU

Matrix: Water

Analysis Batch: 780451

Client Sample ID: VER_071#S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	440		439		mg/L		0.8	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 500-781135/3

Matrix: Water

Analysis Batch: 781135

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO ₃	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO ₃	<5.0		5.0	3.7	mg/L			08/12/24 16:56	1

Lab Sample ID: LCS 500-781135/4

Matrix: Water

Analysis Batch: 781135

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	102		mg/L		102	80 - 120

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

Lab Sample ID: MB 500-779370/1

Matrix: Water

Analysis Batch: 779370

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			08/01/24 02:28	1

Lab Sample ID: LCS 500-779370/2

Matrix: Water

Analysis Batch: 779370

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 500-779570/1

Matrix: Water

Analysis Batch: 779570

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			08/02/24 00:43	1

Lab Sample ID: LCS 500-779570/2

Matrix: Water

Analysis Batch: 779570

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	270		mg/L		108	80 - 120

Lab Sample ID: MB 500-779571/1

Matrix: Water

Analysis Batch: 779571

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			08/02/24 02:39	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3Job ID: 500-254245-4
SDG: VER_845_912

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

Lab Sample ID: LCS 500-779571/2

Matrix: Water

Analysis Batch: 779571

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	254		mg/L		102	80 - 120

Lab Sample ID: MB 500-779809/1

Matrix: Water

Analysis Batch: 779809

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			08/04/24 22:39	1

Lab Sample ID: LCS 500-779809/2

Matrix: Water

Analysis Batch: 779809

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	254		mg/L		102	80 - 120

Lab Sample ID: MB 500-780360/1

Matrix: Water

Analysis Batch: 780360

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			08/07/24 22:27	1

Lab Sample ID: LCS 500-780360/2

Matrix: Water

Analysis Batch: 780360

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

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-781571/3

Matrix: Water

Analysis Batch: 781571

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			08/14/24 14:29	1

Lab Sample ID: MB 500-781571/31

Matrix: Water

Analysis Batch: 781571

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			08/14/24 16:43	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-781571/32

Matrix: Water

Analysis Batch: 781571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.51		mg/L		95	90 - 119

Lab Sample ID: LCS 500-781571/4

Matrix: Water

Analysis Batch: 781571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	10.0	9.59		mg/L		96	90 - 119

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_022

Date Collected: 07/29/24 16:50

Date Received: 07/30/24 12:10

Lab Sample ID: 500-254245-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781005	S1Z	EET CHI	08/12/24 15:47 - 08/12/24 21:50 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 12:14
Total Recoverable	Prep	3005A			781120	BDE	EET CHI	08/13/24 09:19 - 08/13/24 15:19 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 18:38
Total/NA	Prep	7470A			781384	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 08:48
Total/NA	Analysis	300.0		1	780563	W1T	EET CHI	08/09/24 14:13
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 15:13
Total/NA	Analysis	SM 2540C		1	779370	CLB	EET CHI	08/01/24 03:06
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 14:39
Total/NA	Analysis	Field Sampling		1	780497	DN	EET CHI	07/29/24 16:50

Client Sample ID: VER_070&D

Date Collected: 07/30/24 09:00

Date Received: 07/31/24 12:35

Lab Sample ID: 500-254245-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781005	S1Z	EET CHI	08/12/24 15:47 - 08/12/24 21:50 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 13:12
Total Recoverable	Prep	3005A			781120	BDE	EET CHI	08/13/24 09:19 - 08/13/24 15:19 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 19:07
Total/NA	Prep	7470A			781384	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 09:22
Total/NA	Analysis	300.0		50	780563	W1T	EET CHI	08/09/24 19:32
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 16:36
Total/NA	Analysis	SM 2540C		1	779570	CLB	EET CHI	08/02/24 01:37
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 15:32
Total/NA	Analysis	Field Sampling		1	780497	DN	EET CHI	07/30/24 09:00

Client Sample ID: VER_070#S

Date Collected: 07/30/24 08:10

Date Received: 07/31/24 12:35

Lab Sample ID: 500-254245-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781005	S1Z	EET CHI	08/12/24 15:47 - 08/12/24 21:50 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 13:17
Total Recoverable	Prep	3005A			781120	BDE	EET CHI	08/13/24 09:19 - 08/13/24 15:19 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 19:09
Total/NA	Prep	7470A			781384	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 09:33
Total/NA	Analysis	300.0		1	780563	W1T	EET CHI	08/09/24 19:47
Total/NA	Analysis	300.0		50	780563	W1T	EET CHI	08/09/24 20:02
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 16:50

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Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_070#S

Lab Sample ID: 500-254245-10

Date Collected: 07/30/24 08:10

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	779570	CLB	EET CHI	08/02/24 01:39
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 15:36
Total/NA	Analysis	Field Sampling		1	780497	DN	EET CHI	07/30/24 08:10

Client Sample ID: VER_071#S

Lab Sample ID: 500-254245-11

Date Collected: 07/30/24 12:28

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781005	S1Z	EET CHI	08/12/24 15:47 - 08/12/24 21:50 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 13:43
Total Recoverable	Prep	3005A			781120	BDE	EET CHI	08/13/24 09:19 - 08/13/24 15:19 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 19:11
Total/NA	Prep	7470A			781384	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 09:35
Total/NA	Analysis	300.0		1	780563	W1T	EET CHI	08/09/24 20:17
Total/NA	Analysis	300.0		5	780563	W1T	EET CHI	08/09/24 20:33
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 17:00
Total/NA	Analysis	SM 2540C		1	779570	CLB	EET CHI	08/02/24 01:42
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 15:41
Total/NA	Analysis	Field Sampling		1	780497	DN	EET CHI	07/30/24 12:28

Client Sample ID: VER_FB

Lab Sample ID: 500-254245-14

Date Collected: 07/30/24 07:00

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781005	S1Z	EET CHI	08/12/24 15:47 - 08/12/24 21:50 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 13:56
Total Recoverable	Prep	3005A			781120	BDE	EET CHI	08/13/24 09:19 - 08/13/24 15:19 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 19:30
Total Recoverable	Prep	3005A			781120	BDE	EET CHI	08/13/24 09:19 - 08/13/24 15:19 ¹
Total Recoverable	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 15:00
Total/NA	Prep	7470A			781384	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 09:42
Total/NA	Analysis	300.0		1	780794	W1T	EET CHI	08/10/24 15:59
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 17:51
Total/NA	Analysis	SM 2540C		1	779571	CLB	EET CHI	08/02/24 02:49
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 15:57

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_EB

Date Collected: 07/30/24 07:00

Date Received: 07/31/24 12:35

Lab Sample ID: 500-254245-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781005	S1Z	EET CHI	08/12/24 15:47 - 08/12/24 21:50 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 14:00
Total Recoverable	Prep	3005A			781120	BDE	EET CHI	08/13/24 09:19 - 08/13/24 15:19 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 19:32
Total Recoverable	Prep	3005A			781120	BDE	EET CHI	08/13/24 09:19 - 08/13/24 15:19 ¹
Total Recoverable	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 15:02
Total/NA	Prep	7470A			781384	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 09:44
Total/NA	Analysis	300.0		1	780794	W1T	EET CHI	08/10/24 16:14
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 17:55
Total/NA	Analysis	SM 2540C		1	779571	CLB	EET CHI	08/02/24 02:51
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 16:03

Client Sample ID: VER_016A

Date Collected: 07/31/24 09:05

Date Received: 08/01/24 12:30

Lab Sample ID: 500-254245-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781009	S1Z	EET CHI	08/12/24 15:55 - 08/12/24 21:57 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 15:03
Total Recoverable	Prep	3005A			781120	BDE	EET CHI	08/13/24 09:19 - 08/13/24 15:19 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 20:06
Total Recoverable	Prep	3005A			781120	BDE	EET CHI	08/13/24 09:19 - 08/13/24 15:19 ¹
Total Recoverable	Analysis	6020B		1	781573	RN	EET CHI	08/14/24 15:18
Total/NA	Prep	7470A			781384	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 09:59
Total/NA	Analysis	300.0		5	780563	W1T	EET CHI	08/08/24 21:47
Total/NA	Analysis	300.0		1	780794	W1T	EET CHI	08/10/24 16:59
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 18:38
Total/NA	Analysis	SM 2540C		1	779809	CLB	EET CHI	08/04/24 23:02
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 16:33
Total/NA	Analysis	Field Sampling		1	780497	DN	EET CHI	07/31/24 09:05

Client Sample ID: VER_016A_FD

Date Collected: 07/31/24 09:05

Date Received: 08/01/24 12:30

Lab Sample ID: 500-254245-22

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781009	S1Z	EET CHI	08/12/24 15:55 - 08/12/24 21:57 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 15:12
Total Recoverable	Prep	3005A			781122	BDE	EET CHI	08/13/24 09:22 - 08/13/24 15:22 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 20:31
Total Recoverable	Prep	3005A			781122	BDE	EET CHI	08/13/24 09:22 - 08/13/24 15:22 ¹
Total Recoverable	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 13:47

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_016A_FD

Lab Sample ID: 500-254245-22

Date Collected: 07/31/24 09:05

Matrix: Water

Date Received: 08/01/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			781386	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 07:37
Total/NA	Analysis	300.0		5	780563	W1T	EET CHI	08/08/24 22:32
Total/NA	Analysis	300.0		1	780794	W1T	EET CHI	08/10/24 17:45
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 18:58
Total/NA	Analysis	SM 2540C		1	779809	CLB	EET CHI	08/04/24 23:07
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 17:08
Total/NA	Analysis	Field Sampling		1	780497	DN	EET CHI	07/31/24 09:05

Client Sample ID: VER_035&D

Lab Sample ID: 500-254245-23

Date Collected: 07/31/24 13:05

Matrix: Water

Date Received: 08/01/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781009	S1Z	EET CHI	08/12/24 15:55 - 08/12/24 21:57 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 15:17
Total Recoverable	Prep	3005A			781122	BDE	EET CHI	08/13/24 09:22 - 08/13/24 15:22 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 20:33
Total Recoverable	Prep	3005A			781122	BDE	EET CHI	08/13/24 09:22 - 08/13/24 15:22 ¹
Total Recoverable	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 13:49
Total/NA	Prep	7470A			781386	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 07:39
Total/NA	Analysis	300.0		50	780563	W1T	EET CHI	08/08/24 22:48
Total/NA	Analysis	SM 2320B		1	780451	SO	EET CHI	08/07/24 19:08
Total/NA	Analysis	SM 2540C		1	779809	CLB	EET CHI	08/04/24 23:10
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 17:23
Total/NA	Analysis	Field Sampling		1	780497	DN	EET CHI	07/31/24 13:05

Client Sample ID: VER_010

Lab Sample ID: 500-254245-25

Date Collected: 08/01/24 08:00

Matrix: Water

Date Received: 08/01/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781009	S1Z	EET CHI	08/12/24 15:55 - 08/12/24 21:57 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 15:52
Total Recoverable	Prep	3005A			781122	BDE	EET CHI	08/13/24 09:22 - 08/13/24 15:22 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 20:46
Total Recoverable	Prep	3005A			781122	BDE	EET CHI	08/13/24 09:22 - 08/13/24 15:22 ¹
Total Recoverable	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 13:54
Total/NA	Prep	7470A			781386	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 07:43
Total/NA	Analysis	300.0		1	780563	W1T	EET CHI	08/08/24 23:33
Total/NA	Analysis	300.0		10	780563	W1T	EET CHI	08/08/24 23:48

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

Client Sample ID: VER_010

Date Collected: 08/01/24 08:00

Date Received: 08/01/24 12:30

Lab Sample ID: 500-254245-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 17:30
Total/NA	Analysis	SM 2540C		1	779809	CLB	EET CHI	08/04/24 23:15
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 17:31
Total/NA	Analysis	Field Sampling		1	780497	DN	EET CHI	07/30/24 15:50

Client Sample ID: VER_071&D

Date Collected: 08/01/24 08:50

Date Received: 08/01/24 12:30

Lab Sample ID: 500-254245-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			781009	S1Z	EET CHI	08/12/24 15:55 - 08/12/24 21:57 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781316	SJ	EET CHI	08/13/24 15:57
Total Recoverable	Prep	3005A			781122	BDE	EET CHI	08/13/24 09:22 - 08/13/24 15:22 ¹
Total Recoverable	Analysis	6020B		1	781318	RN	EET CHI	08/13/24 20:49
Total Recoverable	Prep	3005A			781122	BDE	EET CHI	08/13/24 09:22 - 08/13/24 15:22 ¹
Total Recoverable	Analysis	6020B		1	781422	RN	EET CHI	08/14/24 13:56
Total/NA	Prep	7470A			781386	MJG	EET CHI	08/14/24 11:40 - 08/14/24 13:40 ¹
Total/NA	Analysis	7470A		1	781636	MJG	EET CHI	08/15/24 07:45
Total/NA	Analysis	300.0		5	780563	W1T	EET CHI	08/09/24 00:03
Total/NA	Analysis	300.0		50	780794	W1T	EET CHI	08/10/24 18:00
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 17:40
Total/NA	Analysis	SM 2540C		1	780360	CLB	EET CHI	08/07/24 22:32
Total/NA	Analysis	SM 4500 F C		1	781571	SO	EET CHI	08/14/24 17:36
Total/NA	Analysis	Field Sampling		1	780497	DN	EET CHI	07/30/24 11:50

Client Sample ID: VER_35#S

Date Collected: 07/31/24 13:40

Date Received: 08/08/24 11:57

Lab Sample ID: 500-254245-33

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	780497	DN	EET CHI	07/31/24 13:40

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-4
SDG: VER_845_912

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	05-31-25

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

Analysis Method	Prep Method	Matrix	Analyte
200.7 Rev 4.4	200.7	Water	Lithium
Field Sampling		Water	Depth to Water (ft from MP)
Field Sampling		Water	Field pH
Field Sampling		Water	Field Temperature
Field Sampling		Water	Oxidation Reduction Potential
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Turbidity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO ₃
SM 2320B		Water	Carbonate Alkalinity as CaCO ₃

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Section C

Invoice Information

Page 1 of 3

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



500-254245 COC

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

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>Jorge Filewicz</u>					
SIGNATURE of SAMPLER <u>[Signature]</u>	DATE Signed (MM/DD/YY) <u>7-30-24</u>				

Rec'd by: J. N. H. 7/25/24 3/30/24 1000
Relinquished by: J. N. H. 7/30/24 210

 $3.9 \rightarrow 3.8$

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Section C
Invoice Information.

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Company: Vistra Corp-Vermillion		Report To: Brian Voelker	Attention: Jason Stuckey			
Address: 10188 E 2150 North Rd		Copy To: Sam Davies samantha.davies@vistracorp.com	Company Name: Vistra Corp	REGULATORY AGENCY		
Danville, IL 61834		Dianna Tickner - dianna.tickner@vistracorp.com	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.	Quote Reference	UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Project Name	Project Manager:	Site Location		
Requested Due Date/TAT. 10 day		Project Number:	Profile #:	STATE	IL	

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>Boone J. Lewicz</i>					
SIGNATURE of SAMPLER <i>Boone J. Lewicz</i>	DATE Signed (MM/DD/YY) <i>7-30-24</i>				

Rec'd by: J. H. H. 7/30/24 1000
Relinquished by: J. H. H. 7/30/24 1200

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Company: Vistra Corp-Vermillion		Report To: Brian Voelker	Attention: Jason Stuckey			
Address 10188 E 2150 North Rd		Copy To: Sam Davies samantha.davies@vistracorp.com	Company Name Vistra Corp	REGULATORY AGENCY		
Danville, IL 61834		Dianna Tickner - dianna.tickner@vistracorp.com	Address see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No	Quote Reference	UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Project Name:	Project Manager:	Site Location		
Requested Due Date/TAT 10 day		Project Number:	Profile #	STATE	IL	

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>Corne F. Lewicz</i>					
SIGNATURE of SAMPLER <i>[Signature]</i>	DATE Signed (MM/DD/YY) <i>7-30-24</i>				

Rec'd by: J. [Signature] 7/30/24 1000
Relinquished by: J. [Signature] 7/30/24 1210

500-254245

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500-254245 COC

Page 1 of 3

Company: Vistra Corp-Vermillion		Report To: Brian Voelker	Attention: Jason Stuckey	REGULATORY AGENCY		
Address: 10188 E 2150 North Rd		Copy To: Sam Davies samantha.davies@vistracorp.com	Company Name: Vistra Corp			
Danville, IL 61834		Dianna Tickner - dianna.tickner@vistracorp.com	Address: see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.	Quote Reference	UST	RCRA	OTHER
Phone: (217) 753-8911	Fax:	Project Name	Project Manager:	Site Location	IL	
Requested Due Date/TAT 10 day		Project Number:	Profile #:	STATE		

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>John Filver</i>					
SIGNATURE of SAMPLER. <i>John Filver</i>	DATE Signed (MM/DD/YY) <i>7-30-24</i>				

Rec'd by: J. Valenzuela 7/31/24 1015
Relinquished by: J. Valenzuela 7/31/24 1235

5.4 → 5.3, 4.8 → 4.7
4.9 → 4.8, 3.3 → 3.2

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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)				
Lorne F. Lewis Lorne F. Lewis					
		7-31-24			

~~Inter~~ rec'd by: J. [unclear] 7/31/24 1015
 Rel: J. [unclear] 7/31/24 1235

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13
14
15

Rec'd by: J. Williams 7/31/24 1015
Rel: J. Williams 7/31/24 1235

500-254245

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Section A Required Client Information		Section B Required Project Information		Section C Invoice Information.		500-254245 COC		Page 1 of 3			
Company: Vistra Corp-Vermillion		Report To: Brian Voelker		Attention: Jason Stuckey		REGULATORY AGENCY					
Address: 10188 E 2150 North Rd		Copy To: Sam Davies samantha.davies@vistracorp.com		Company Name: Vistra Corp							
Danville, IL 61834		Dianna Tickner - dianna.tickner@vistracorp.com		Address: see Section A		NPDES		GROUND WATER		DRINKING WATER	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.		Quote Reference		UST		RCRA		OTHER	
Phone: (217) 753-8911		Fax:		Project Name		Project Manager:		Site Location			
Requested Due Date/TAT: 10 day		Project Number:		Profile #:		STATE		IL			

22 * 16A-FD 7-31-24 0905 (moved From ver-010)

$$\begin{array}{l} 4.2 \rightarrow 4.103 \rightarrow 20.2 \\ 3.3 \rightarrow 3.2 \end{array}$$

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Samples
Intact (Y/N)

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Section C
Invoice information.

Company:	Vistra Corp-Vermillion	Report To:	Brian Voelker	Attention:	Jason Sluckey	REGULATORY AGENCY		
Address	10188 E 2150 North Rd	Copy To:	Sam Davies samantha.davies@visstracorp.com	Company Name	Vistra Corp			
	Danville, IL 61834		Dianna Tickner - dianna.tickner@visstracorp.com	Address	see Section A			
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference				
Phone	(217) 753-8911	Fax		Project Manager:				
Requested Due Date/TAT		10 day		Project Number:		Profile #:		
						Site Location	IL	
						STATE		

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Section C

Invoice Information

Company	Vistra Corp-Vermillion	Report To	Brian Voelker	Attention	Jason Stuckey			
Address	10188 E 2150 North Rd	Copy To	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp	REGULATORY AGENCY		
	Danville, IL 61834		Dianna Tickner - dianna.tickner@vistracorp.com	Address	see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference		UST	RCRA	OTHER
Phone	(217) 753-8911	Fax		Project Manager		Site Location		
	Requested Due Date/TAT	10 day	Project Number	Profile #:		STATE	IL	

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)					

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08/16/24

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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS																			
VER-24Q3 Rev 0	Lorne F. Lewis	8-1-24	0900	J. Williams	8-1-24	1000																				
	J. Williams	8-1-24	1230	J. Williams	8-1-24	1230																				
<table border="1"> <thead> <tr> <th colspan="2">SAMPLER NAME AND SIGNATURE</th> <th rowspan="3">Temp in °C</th> <th rowspan="3">Received on Ice (Y/N)</th> <th rowspan="3">Custody Sealed Cooler (Y/N)</th> <th rowspan="3">Samples Intact (Y/N)</th> </tr> <tr> <th colspan="2">PRINT Name of SAMPLER</th> </tr> <tr> <th>SIGNATURE of SAMPLER</th> <th>DATE Signed (MM/DD/YY)</th> </tr> </thead> <tbody> <tr> <td>Lorne F. Lewis</td> <td>8-1-24</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							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)	Lorne F. Lewis	8-1-24								
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)																									
Lorne F. Lewis	8-1-24																									

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-254245-4

SDG Number: VER_845_912

Login Number: 254245

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	3.8,5.3,4.7,4.8,3.2,4.1,0.2,3.2
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.	False	
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	

SAR-3: Episodic Depth to Groundwater Measurements

All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Plant: VER

Event: VER-24Q3 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Depth To Bottom Comments	Initials
101S	VER_101#S	07/29	0930	58.45	64.09	GA
102	VER_102&		0936	124.42	155.54	
102S	VER_102#S		0939	72.03	78.47	
103S	VER_103#S		1151	57.79	73.99	
104	VER_104&		0942	125.24	160.05	
104S	VER_104#S		0945	72.42	83.12	
105	VER_105&		0954	115.72	138.55	
105S	VER_105#S		0951	67.42	75.25	
16B	VER_016!B		1057	Dry	7.31	
23	VER_023		1414	14.51	24.68	
24	VER_024		1416	22.02	56.82	
25	VER_025		1014	16.24	41.88	
35S	VER_035#S		1105	12.05	12.43	
SG01	VER_YSG01	↓	1206	78.04	Transducer will be added to this location at a future date	✓

U:6/21/23 GKJ

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads

All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Plant: VER

Event: VER-24Q3 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Depth To Bottom Comments	Initials
					Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)		
RG01	VER_RG01	07/29				N/A					GA
02	VER_002		1236	18.43	21863664	NA	NA	N	NA	41.35	
03R	VER_003R		1239	7.95	21863701	Y	NA	N	H	29.49	
04	VER_004		1323	8.18	21615494	Y	582.9119	✓	H	11.45	
05	VER_005		1350	7.59	21863665	Y	583.5460	✓	H	14.59	
07R	VER_007R		1234	17.05	21863672	NA	NA	N	NA	23.58	
08R	VER_008R		1241	13.89	21615142	Y	NA	N	H	14.58	
10	VER_010		1025	49.09	21921674	Y	609.8188	✓	H	55.49	
16A	VER_016A		1059	9.28	21564137	NA	NA	N	NA	32.91	
17	VER_017		1237	39.18	21675573	NA	NA	N	NA	63.19	
20	VER_020		1333	15.13	21863671	Y	577.2557	✓	H	17.60	
21	VER_021		1158	91.16	21615622	Y	582.2552	✓	H	103.58	
22	VER_022		1027	54.92	21739726	Y	605.0443	✓	H	87.01	
34	VER_034		1336	—	21615519	Y	578.6346	✓	H	Busted	
35D	VER_035&D		1106	12.57	21564141	NA	NA	N	NA	48.59	
36	VER_036		1301	14.55	21863668	NA	NA	N	NA	29.18	
37	VER_037		1303	8.15	21863670	NA	NA	N	NA	55.68	
38	VER_038		1345	7.35	21863674	Y	585.0434	✓	H	24.85	
41	VER_041		1318	6.11	21615517	Y	581.5095	✓	H	26.78	
42	VER_042		1225	25.87	21863663	Y	NA	N	H	53.58	
43	VER_043		1217	16.01	21615627	Y	592.5140	✓	H	57.78	
70S	VER_070#S		1036	14.05	21615597	Y	580.1011	✓	H	19.81	
70D	VER_070&D		1037	39.51	21615620	Y	582.2981	✓	H	47.98	
71S	VER_071#S		1044	11.91	21615599	Y	596.6891	✓	H	13.09	
71D	VER_071&D		1046	36.91	21863675	Y	544.4292	✓	M	38.29	
101	VER_101&		0924	108.50	21739729	Y	548.7845	✓	H	152.39	
103	VER_103&		1154	130.11	21615619	Y	590.9249	✓	H	165.02	
ND3	VER_ND3		1403	17.20	21863702	Y	617.2670	✓	H	19.38	
NED1	VER_NED1		—	—	21739721	—	—	—	—	Underwater	
OED1	VER_OED1		1357	40.22	21739731	Y	590.7194	✓	H	42.15	
SG01	VER_SG01	✓	1000	16.21	21615604	Y	673.7324	✓	H	—	✓

U: 6/27/24 RAB

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: <u>Vermillion</u>	Client: <u>Visita</u>
Project Number: <u>2024.0099</u>	Task #: <u>1350</u>
Start Date: <u>7/31/2024</u>	Time: <u>1440</u>
Field Personnel: <u>6. Asafing</u>	Finish Date: <u>7/31/2024</u>
Time: <u>1440</u>	

WELL INFORMATION

EVENT TYPE

Well ID: <u>03R</u>	Well Development
Casing ID: <u>03R</u>	Well Volume Approach Sampling
Inches: <u> </u>	Other (Specify): <u>Low Flow</u>

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTUs	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	1358	—	7.87	—	—	—	—	—	—	—	—
	5	1400	0.52	8.02	—	15.3	7.19	1.822	3.72	12.12	-8.4	Clear
	10	1405	0.5	8.21	—	13.5	7.43	1.813	0.42	18.51	-112.1	" "
	15	1416	1	8.17	—	13.5	7.44	1.821	0.27	23.30	-123.4	" "
	20	1415	1.5	8.20	—	13.4	7.44	1.822	0.22	24.72	-128.1	" "
	25	1420	—	7.98	—	13.4	7.44	1.824	0.21	25.20	-130.5	" "
Final	30	1437	—	7.98	—	—	—	—	—	—	—	—
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: <u>03R and 03R-FD</u>	Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential SEC - Specific
Sampled @ <u>1425</u> on <u>07/31/24</u>	FT BTOC - Feet Below Top of Casing	Electrical Conductance SU - Standard Units
	na - Not Applicable	Temp. - Temperature
	mm - Not Measured	°C - Degrees Celsius

03R and 03R-FD

1425

Duplicate

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Client: Visstra
 Project Number: 2024.0099 Task #: Start Date: 7/31/2024 Time: 1035

Field Personnel: Lorae F Finish Date: Same Time: 1100

WELL INFORMATION

EVENT TYPE

Well ID: 04
 Casing ID: 2 (Inches)

Well Development
 Well Volume Approach Sampling

Low-Flow / Low Stress Sampling
 Other (Specify): Low Flow

YSI SERIAL NO: 204104916
 Heron Serial NO: 124E2303045 - FR

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTUs	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	1035		8.03								
	5	1040		8.09		14.9	7.57	595	47	150	-133.6	0.825
	10	1045		8.19		15.0	7.58	598	22	140	-146.9	
	15	1050		8.22		15.0	7.57	600	17	142	-149.1	
	20	1055		8.30		15.1	7.56	602	17	140	-150.3	
	25	1100	2.6 gal	8.33		15.1	7.55	603	16	138	-151.3	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: 04
 Sampled @ 1100 on 7/31/24

Cond. - Actual Conductivity
 FT BTIC - Feet Below Top of Casing
 na - Not Applicable
 nm - Not Measured

ORP - Oxidation-Reduction Potential SEC - Specific
 Temp. - Temperature
 °C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: <u>Vermilion</u>	Client: <u>Visira</u>
Project Number: <u>2024.0099</u>	Task #: <u>1</u>
Start Date: <u>8/1/2024</u>	Time: <u>0730</u>
Field Personnel: <u>G. Assalmy</u>	Finish Date: <u>08/01/2024</u>
	Time: <u>0825</u>

WELL INFORMATION

EVENT TYPE

Well ID: <u>05</u>	Well Development	Low-Flow / Low Stress Sampling	YSI SERIAL NO: <u>4114387X</u>
Casing ID: _____	Well Volume Approach Sampling	Other (Specify): Low Flow	Heron Serial NO: _____
Inches: _____			

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/-10mV	Visual Clarity
Pre	0	0750	—	7.73	—	—	—	—	—	—	—	—
Burge	5	0755	—0.5	7.78	—	14.2	7.50	1.000	0.34	4.85	49.1	Clear
	10	0800	—0.5	7.64	—	14.2	7.50	0.999	0.27	4.11	41.6	
	15	0805	1	7.90	—	14.1	7.50	1.007	0.22	2.24	32.8	
	20	0810	2	7.92	—	14.1	7.50	1.001	0.20	3.45	33.7	
Final	25	0820	4	7.94	—	—	—	—	—	—	—	—
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: -05
Sampled @ 08/01/2024 on 08/01/2024

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

(a) 0815

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Well: Vermilion Client: Vista
Project Number: 2024.0099 Task #: 1 Start Date: 6/1/2024 Time: 12:13
Field Personnel: G. Aschling Finish Date: 07/31/24 Time: 1:30

WELL INFORMATION

Well ID: 08R
Casing ID: Inches: Well Development
Well Volume Approach Sampling

EVENT TYPE

Low-Flow / Low Stress Sampling
Other (Specify): Low Flow

YSI SERIAL NO: 1114887X
Heron Serial NO: 4851-T

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTUs	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	1218	—	13.99	—	—	—	—	—	—	—	—
	5	1220	0.52	14.19		15.6	6.96	1.696	3.75	59.41	4.2	(100)
	10	1225	1	14.15		14.9	7.26	1.716	0.84	84.46	-55.9	"
	15	1230	2	14.08		15.1	7.61	1.715	0.39	15.75	-93.9	"
	20	1235	2.5	14.05		15.2	7.68	1.716	0.34	14.03	-111.4	"
	25	1240	3	14.03		15.3	7.74	1.716	0.30	14.94	-121.3	"
	30	1245	4	14.03 14.04		15.2	7.75	1.716	0.29	13.98	-120.7	"
Final	35			13.98								
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: ~~1250~~ 6A -08R
Sampled @ 1250 on 7/31/2024

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
°C - Degrees Celsius

1250

ID: -08R

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: <u>Vermilion</u>	Client: <u>Vistra</u>	Start Date: <u>7/30/2024</u>	Time: <u>1540</u>
Project Number: 2024.0099	Task #: <u>1540</u>	Finish Date: <u>Same</u>	Time: <u>1540</u>
Field Personnel: <u>Corne</u>	Finish Date: <u>Same</u>	Time: <u>1540</u>	

WELL INFORMATION

Well ID: <u>10</u>	Event Type: <u>Low Flow / Low Stress Sampling</u>	YSI SERIAL NO: <u>264104816</u>
Casing ID: <u>10</u>	Other (Specify): <u>Low Flow</u>	Heron Serial NO: <u>2303645FR</u>

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/-10mV	Visual Clarity
Pre	0	1540		53.35		16.8	6.66	1.322	1.73	1455	97.7	Clear
Purge	5	1545		Dry		16.8	6.66	1.313	1.48	9.10	97.3	
	10	1550		Dry								
	15	1555		Dry								
X	20	1600										
	25	1605										
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: <u>10</u>	on <u>7/30/24</u>	well went dry at 1555
Sampled @ <u>10</u>		no sample taken

ABBREVIATIONS

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

Dupe @ No Dupe

Re Sample on 8-1-24 0800 Filled All Bottles.

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Vistra
 Project Number: 2024.0099 Task #: Start Date: 07/31/2024 Time: 0825

Field Personnel: G. Acallan Finish Date: 07/31/2024 Time: 0930

WELL INFORMATION

EVENT TYPE

Well ID: 16A Well Development
 Casing ID: Inches: Well Volume Approach Sampling
 Low-Flow / Low Stress Sampling
 Other (Specify): Low Flow YSI SERIAL NO:
 Heron Serial NO:

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/-10mV	Visual Clarity
Pre	0	0830	—	9.22	—	—	—	—	—	—	—	—
Purge	5	0835	0.5>	14.90	—	12.3	7.58	1480	0.37	25.85	-122.6	Clear
	10	0840	1	16.42	—	12.5	7.62	1409	0.49	23.65	-136.7	" "
	15	0845	3	18.11	—	12.6	7.63	1397	1.78	38.57	-127.7	" "
	20	0850	3.5	20.04	—	12.6	7.64	1388	1.91	54.15	-125.8	" "
	25	0855	4	21.73	—	12.4	7.65	1385	2.07	58.54	-128.8	" "
	30	0900	4.5	27.72	—	12.6	7.65	1379	1.95	57.37	-131.1	" "
Final	35	0924		26.14								
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: 16A and -16A-FD
 Sampled @ 0905 on 07/31/2024

Cond. - Actual Conductivity
 FT RTOC - Feet Below Top of Casing
 na - Not Applicable
 mm - Not Measured
 ORP - Oxidation-Reduction Potential SEC - Specific
 Temp. - Temperature
 °C - Degrees Celsius

16A
FD
Duplicate

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Client: Visita
 Project Number: 2024.0099 Task #: Start Date: 7/31/2024 Time: 0925
 Field Personnel: Lorne F Finish Date: Same Time: 1000

WELL INFORMATION

Well ID: 20 Well Development
 Casing ID: 2 (Inches) Well Volume Approach Sampling

EVENT TYPE

Low-Flow / Low Stress Sampling
 Other (specify): Low Flow

YSI SERIAL NO: 254104816

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	0925		15.19		13.4	7.12	.613	.59	2029	3.9	Clear
	5	0930		15.21		13.4	7.09	.621	.38	4.31	-8.5	
	10	0935		15.21		13.3	7.08	.631	.26	3.60	-15.9	
	15	0940		15.21		13.2	7.07	.638	.22	2.20	-19.7	
	20	0945		15.22		13.1	7.07	.639	.21	2.01	-20.2	
	25	0950		15.22		13.1	7.07	.641	.21	1.89	-20.3	
	30	0955		15.22								
	35	1000	3 GAL	15.22								
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: 20 Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific
 Sampled @ 1000h 7/31/24 FT BTIC - Feet Below Top of Casing Temp. - Temperature
 na - Not Applicable Electrical Conductance SU - Standard Units
 nm - Not Measured °C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Office: Vermilion Client: Visita
Project Number: 2024.0099 Task #: Start Date: 07/30/2024 Time: 1425
Field Personnel: G. Aschell Finish Date: 07/30/2024 Time: 1550

WELL INFORMATION

Well ID: 21 Well Development
Casing ID: 21 Inches: 2" Well Volume Approach Sampling
EVENT TYPE
Low-Flow/Low-Stress Sampling
Other (Specify): Low Flow VSI SERIAL NO: 4114887x
Heron Serial NO: 4851-T

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTUs	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	1427	—	92.65	—	—	—	—	—	—	—	Clear
	5	1430	0.5	94.47	—	14.8	7.44	0.884	1.76	495	-101.3	Clear
	10	1435	0.5	95.87	—	14.7	7.50	0.822	0.62	591	-120.0	"
	15	1440	1	97.97	—	14.5	7.53	0.810	0.39	1525	-145.5	"
	20	1445	1.5	98.27	—	14.6	7.54	0.802	0.32	2810	-157.6	"
	25	1450	2	99.05	—	14.6	7.57	0.806	0.54	4123	-163.4	"
	30	1455	2.5	99.54	—	14.7	7.58	0.801	0.31	5385	-173.2	"
	35	1500	3	99.73	—	14.7	7.59	0.806	0.27	5746	-182.3	"
	40	1505	3.5	99.82	—	14.8	7.59	0.801	0.26	5466	-181.2	"
Final	45	1550	5	98.2	—	—	—	—	—	—	—	"
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: VER-21 Cond. - Actual Conductivity
Sampled @ 150 on 7/30/2024 FT BTOC - Feet Below Top of Casing
Temp. - Temperature
ORP - Oxidation-Reduction Potential SEC - Specific
Electrical Conductance SU - Standard Units
°C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion

Project Number: 2024.0099

Task #:

Client: Vistra

Start Date: 7/29/2024

Time: 1600

Field Personnel: L. S. R. V. E.

Finish Date: Same

Time: 1650

WELL INFORMATION

Well ID: 22

Casing ID: 2"

Inches:

Well Development

Well Volume Approach Sampling

EVENT TYPE

Low-Flow/ Low Stress Sampling
Other (Specify): Low Flow

YSI SERIAL NO: 2611049116

Heron Serial NO: 12412303045550

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/-10mV	Visual Clarity
Purge	0	1610		54.24		15.7	7.45	266	3.65	112.10	-82.8	Clear
	5	1615		54.24		14.8	7.35	257	3.74	112.90	-46.8	
	10	1620		56.42		14.9	7.34	259	3.54	113.72	-45.3	
	15	1625		57.20		15.0	7.33	261	3.49	30.91	-45.8	
	20	1630		57.99		15.1	7.33	262	3.30	28.00	-46.1	
	25	1635		58.07		15.1	7.33	262	3.20	27.20	-45.4	
	30	1640		58.11		15.2	7.33	264	3.19	25.28	-45.5	
	35	1645		58.20		15.2	7.33	263	3.18	25.29	-45.3	
	40	1650		58.20								
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: 22
Sampled @ 1650 on 7/29/24

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured

ORP - Oxidation-Reduction Potential SEC - Specific
Temp. - Temperature
°C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Client: Visstra
 Project Number: 2024.0099 Task #: 7 Start Date: 7/31/2024 Time: 12:35
 Field Personnel: Corne Finish Date: Same Time: 1305

WELL INFORMATION

EVENT TYPE

Well ID: 35D Well Development
 Casing ID: 2 Inches: 3 Well Volume Approach Sampling
 Low-Flow / Low Stress Sampling
 Other (Specify): Low Flow
 YSI SERIAL NO: 2041-04816
 Heron Serial NO: 2303045 FR

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTUs	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	1235		12.55								
	5	1240		14.92		16.2	7.33	4.643	1.42	8.25	-78.0	
	10	1245		17.23		16.9	7.45	4.649	0.85	8.30	-54.5	
	15	1250		20.10		17.1	7.46	4.720	0.91	8.42	-59.9	
X	20	1255		21.70		17.0	7.30	4.660	0.89	9.01	-62.2	
	25	1300		23.10		16.9	7.27	4.662	0.98	8.97	-61.3	
	30	1305		24.63		16.9	7.22	4.663	0.96	8.91	-60.9	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: 35D Cond. - Actual Conductivity
 Sampled @ 1305h 7/31/24 FT BTQC - Feet Below Top of Casing
 ORP - Oxidation-Reduction Potential SEC - Specific
 Temp. - Temperature
 °C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: <u>Vermilion</u>	Client: <u>Vistra</u>
Project Number: <u>2024.0099</u>	Task #: _____
Field Personnel: <u>Lowe</u>	Finish Date: <u>Same</u>
Time: <u>1340</u>	

Well ID: <u>35-S</u>	Well Development
Casing ID: _____	Well Volume Approach Sampling
Inches: _____	

EVENT TYPE

Low-Flow / Low Stress Sampling
Other (Specify): Low Flow

YSI SERIAL NO:
Heron Serial NO:

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	1340		11.98								
	5											
	10											
	15											
	20											
	25											
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: _____ on _____ / _____ / _____ Well ID: _____ DTB 1244

Sampled @ _____ on _____ / _____ / _____ within 2min of PDE

Cond. - Actual Conductivity
FT RTOC - Feet Below Top of Casing
na - Not Applicable
mm - Not Measured

ORP - Oxidation-Reduction Potential SEC - Specific
Electrical Conductance SU - Standard Units
Temp. - Temperature
°C - Degrees Celsius

Well won't Dry
within 2min of PDE
No Sample taken

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Client: Vista
Project Number: 2024.0099 Task #: Start Date: 7/30/2024 Time: 1440
Field Personnel: Larva Finish Date: Same Time: 1440

WELL INFORMATION

Well ID: 38
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling
Other (Specify) FLOW FLOW

WATER QUALITY INDICATOR PARAMETERS (continued)

YSI SERIAL NO: 204104816
Heron SERIAL NO: 1241230306 FR

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	1410		7.40								
	5	1415		7.42		15.1	7.03	942	74	44.6	-180.4	Clear
	10	1420		7.42		15.2	6.97	936	27	125.79	-111.2	
	15	1425		7.42		15.1	6.96	938	18	102.71	-115.0	
	20	1430		7.43		15.2	6.96	934	15	112.00	-116.2	
*	25	1435		7.44		15.1	6.96	936	14	123.19	-117.4	
	30	1440	4.69	7.47		15.2	6.96	939	13	125.12	-118.3	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: 38
Sampled @ 1440 on 7/30/24

Cond. - Actual Conductivity
FT BTIC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific
Temp. - Temperature
°C - Degrees Celsius

Dupe @ 1455

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Client: Visira
Project Number: 2024.0099 Task #: Start Date: 07/29/2024 Time: 1600
Field Personnel: G. Aronoff Finish Date: 07/29/2024 Time: 1654

WELL INFORMATION

Well ID: VER-041
Casing ID: Inches:

EVENT TYPE

Well Development YSI SERIAL NO: 411/488 TX
Well Volume Approach Sampling Other (Specify): Low Flow Heron Serial NO: 4851-T

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/-10mV	Visual Clarity
Pre	0	1602	0.5	6.09	—	—	—	—	—	—	—	—
Purge	5	1620	0.5	6.12	—	13.3	7.20	1335	0.46	11.31	-149.2	Clear
	10	1625	0.5	6.17	—	13.7	7.21	1336	0.27	8.20	-152.0	Clear
	15	1630	1	6.16	—	13.6	7.22	1340	0.19	5.96	-154.7	Clear
	20	1638	1.5	6.17	—	13.5	7.23	1341	0.15	8.63	-156.4	" "
	25	1640	2	6.20	—	13.5	7.23	1341	0.14	9.42	-157.2	" "
End	30	1646	3.5	6.14	—	—	—	—	—	—	—	—
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: VER-041
Sampled @ 1646 on 07/29/2024

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 Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Location: Vermilion

Project Number: 2024.0099

Task #:

Client: Vista

Start Date: 07/30/2024

Time: 0900

Field Personnel: G. Asakany

Finish Date: 07/30/2024

Time: 1010

WELL INFORMATION

Well ID: 42

Casing ID:

Inches: 2

Well Development

Well Volume Approach Sampling

EVENT TYPE

Low-Flow / Low Stress Sampling
Other (Specify): Low FlowYSI SERIAL NO: 64114387x
Heron Serial NO: 48251-T

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTUs	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	0905	0	25.89	—	—	—	—	—	—	—	—
↓	5	0910	0.5	25.95	—	12.4	7.48	1.134	2.62	12.38	-98.0	Clear
↓	10	0915	1.5	26.01	—	11.9	7.56	1.126	0.28	4.80	-147.4	"
↓	15	0920	3	26.05	—	12.1	7.55	1.128	0.26	3.05	-151.7	"
↓	20	0925	3.5	25.94	—	12.5	7.55	1.127	0.27	2.93	-152.2	"
↓	25	0930	4	25.95	—	12.5	7.54	1.125	1.00	4.03	-145.3	"
↓	30	0935	4.5	25.90	—	12.6	7.54	1.125	1.14	6.68	-140.3	"
↓	35	0940	5	—	—	12.6	7.55	1.125	1.18	5.40	-138.2	"
Final	40	—	—	—	—	—	—	—	—	—	—	—
	45	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—
	55	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—

NOTES (continued)

Sample ID: 42, 042MS, 042MSD
Sampled @ 0945 on 07/30/2024

MSMSD

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 Celsius

all (a) 0945

MSMSD

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: <u>Vermilion</u>	Client: <u>Visira</u>
Project Number: <u>2024-0099</u>	Task #: <u></u>
Start Date: <u>7/30/2024</u>	Time: <u>1025</u>
Field Personnel: <u>Lorne</u>	Finish Date: <u>Steel</u>
Time: <u>1050</u>	

WELL INFORMATION

EVENT TYPE

Well ID: <u>43</u>	Well Development
Casing ID: <u>2</u> (Inches)	Well Volume Approach Sampling

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	1025		15.95		15.2	7.09	1,204	1,98	16.90	-77.0	Clear
	5	1030		17.09		15.1	7.12	1,194	1,15	49.99	-93.9	
	10	1035		17.29		15.0	7.14	1,164	1,15	26.85	-99.4	
	15	1040		17.32		14.9	7.15	1,145	0.99	26.01	-101.1	
	20	1045		17.45		14.9	7.16	1,129	0.94	25.32	-101.9	
	25	1050		17.50								
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: <u>43</u>	Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential SEC - Specific
Sampled @ <u>1050</u> on <u>7/30/24</u>	FT BTOC - Feet Below Top of Casing	Temp. - Temperature
	na - Not Applicable	Electrical Conductance SU - Standard Units
	nm - Not Measured	*C - Degrees Celsius

Dupe @ 1100

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion Client: Visita
Project Number: 2024.0099 Task #: Start Date: 7/30/2024 Time: 0830
Field Personnel: Leone Finish Date: Same Time: 0900

WELL INFORMATION

EVENT TYPE

Well ID: 70D Well Development Low-Flow / Low Stress Sampling YSI SERIAL NO: 204104816
Casing ID: 2 Well Volume Approach Sampling Other (Specify): Low Flow Heron Serial NO: 1244 F2303045 FT
Inches: 2

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	0830		39.36								
	5	0835		40.27		15.6	6.89	3.496	2.39	29.20	126.3	Clear
	10	0840		41.92		14.9	6.82	3.29	2.25	17.82	124.7	
	15	0845		42.39		15.0	6.80	3.026	2.30	18.72	125.4	
	20	0850		43.29		15.1	6.79	2.992	2.47	20.71	131.4	
	25	0855		44.50		15.2	6.79	2.971	2.71	19.21	135.7	
	30	0900	2.64L	45.09		15.1	6.79	2.872	2.80	18.50	148.27	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: 70D Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific
Sampled @ 0900h 7/30/24 FT ATOC - Feet Below Top of Casing Temp. - Temperature
na - Not Applicable Electrical Conductance SU - Standard Units
nm - Not Measured °C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Client: Vista
Project Number: 2024.0099 Task #: Start Date: 7/30/2024 Time: 0745
Field Personnel: Lowe Finish Date: Same Time: 0810

WELL INFORMATION

EVENT TYPE

Well ID: 705 Well Development
Casing ID: 2 Inches: Well Volume Approach Sampling
Low-Flow Low Stress Sampling
Other (Specify) Low Flow YSI SERIAL NO: 20u104816
Heron Serial NO: 12H F2303045 FR

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTUs	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	0745		14.10								
	5	0750		14.10		14.0	6.94	1.305	2.35	15.81	118.3	Clear
	10	0755		14.22		14.7	6.88	1.294	1.29	7.73	125.7	
	15	0800		14.25		14.6	6.88	1.300	1.28	7.92	126.1	
X	20	0810	2.6 GAL	14.30		14.5	6.96	1.293	1.26	6.67	127.6	↓
	25											
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: 705
Sampled @ 0810 on 7/30/24

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Client: Visstra Start Date: 7/30/2024 Time: 11:25
 Project Number: 2024.0099 Task #: Finish Date: 08/11/2024 Time: 08:50
 Field Personnel: G. Acobellany

WELL INFORMATION

EVENT TYPE

Well ID: 71D Well Development YSI SERIAL NO:
 Casing ID: Well Volume Approach Sampling Heron Serial NO:
 Inches: Low-Flow / Low Stress Sampling
 Other (Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	1130	—	37.84	—	—	—	—	—	—	—	—
	5	1135	0.5	Below Pump	—	14.3	6.49	4.494	0.81	26.17	130.5	Clear
	10	1140	1	"	—	14.7	6.98	4.507	0.51	47.27	131.5	"
	15	1145	1	"	—	15.3	6.98	4.505	0.45	19.42	131.2	"
	20	1150	1.3	"	—	15.8	6.99	4.496	0.46	23.36	81.3	"
	25	1155	—	—	—	—	—	—	—	—	—	—
	30	—	—	Dry	—	—	—	—	—	—	—	—
	35	0834	—	Below Pump	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—
	45	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—
	55	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—

NOTES (continued)

ABBREVIATIONS

Sample ID: on 7/30/2024
 Sampled @ 30
 Cond. - Actual Conductivity
 FT BTIC - Feet Below Top of Casing
 na - Not Applicable
 nm - Not Measured
 ORP - Oxidation-Reduction Potential SEC - Specific
 Temp. - Temperature
 °C - Degrees Celsius

Dry at 1155 on 07/30/2024
 Sampled on 08/11/2024

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Client: Visitra
Project Number: 2024.0099 Task #: Start Date: 7/30/2024 Time: 1200
Field Personnel: G. Asa Finish Date: 07/30/2024 Time: 1237

WELL INFORMATION

EVENT TYPE

Well ID: 715
Casing ID: Inches: 2"

Well Development
Well Volume Approach Sampling

~~Flow~~ Low Stress Sampling
Other (Specify): Low Flow

YSI SERIAL NO: 4114887X
Heron Serial NO: 4851-7

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTUs	ORP (mV) +/-10mV	Visual Clarity
Purge	0	1205	—	13.5	12.42	—	—	—	—	—	—	—
	5	1210	0.5	13.48	12.5	—	—	1026	0.62	3.07	-5.8	Clear
	10	1215	1	12.42	—	17.2	6.84	1021	0.28	2.26	2	
	15	1220	1.5	12.31	—	17.1	6.83	1019	0.21	1.01	6.4	
	20	1225	3	12.05	—	17.1	6.83	1021	0.18	1.26	8.9	
	25	1237	—	11.91	—	—	—	—	—	—	—	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: 2228 Ver-715
Sampled @ 228 on 07/30/2024

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermilion Client: Visita
Project Number: 2024.0099 Task #: Start Date: 7/31/2024 Time: 0900
Field Personnel: LCRNE Finish Date: Time:

WELL INFORMATION

EVENT TYPE

Well ID: 101 Well Development YSI SERIAL NO:
Casing ID: Well Volume Approach Sampling Heron Serial NO:
Inches:

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTUs	ORP (mV) +/- 10mV	Visual Clarity
Pre	0			108.46								
Purge	5											
	10											
	15											
	20											
	25											
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: on 1/1 Can't get water to Bottom 151.85
Sampled @ / / Purge w/ equipment we have
On Site No Sample

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 Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: <u>Vermilion</u>	Client: <u>Vistra</u>
Project Number: <u>2024.0099</u>	Task #: _____
Start Date: <u>7/30/2024</u>	Time: <u>1100</u>
Field Personnel: <u>Lorne</u>	Finish Date: _____
Time: _____	

WELL INFORMATION

Well ID: <u>1034</u>	Well Development
Casing ID: _____	Well Volume Approach Sampling
Inches: _____	

EVENT TYPE

Low-Flow / Low Stress Sampling	YSI SERIAL NO: <u>204104816</u>
Other (Specify): Low Flow	Heron Serial NO: <u>124F2303045F</u>

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0			<u>180.15</u>								
Purge	5											
	10											
	15											
	20											
	25											
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: <u>1034</u>	on <u>7/30/24</u>	Equipment used on Site
Sampled @		

1st get water to purge w/
equipment we have on site
No Sample

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Vermillion

Project Number: 2024.0099

Task #:

Client: Vista

Start Date: 7/30/2024

Time: 1250

Field Personnel: Leroy P

Finish Date: Steve

Time: 1320

WELL INFORMATION

Well ID: ND3

Casing ID:

2 Inches

Well Development

Well Volume Approach Sampling

EVENT TYPE

Low-Flow / Low Stress Sampling
Other (Specify): Low Flow

YSI SERIAL NO: 204104816

Heron Serial NO: 124FF2303045FR

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/-10mV	Visual Clarity
Purge	0	1250		17.27								
	5	1255		17.42		17.4	8.08	1.762	5.52	163.30	160.3	Cloudy
	10	1300		17.67		19.6	8.05	1.773	5.85	125.35	166.0	
	15	1305		17.68		20.0	8.05	1.776	5.92	120.31	171.0	
	20	1310		17.71		20.0	8.08	1.801	6.09	129.71	176.9	
	25	1315		17.75		19.9	8.14	1.748	7.29	140.18	180.2	
	30	1320	3.64L	17.77		19.9	8.16	1.738	7.42	149.16	183.2	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample IND3

Sampled @ 1320 on

7/30/24

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 Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Location: Vermilion Client: Vistra
Project Number: 2024.0099 Task #: 730 Start Date: 7/30/2024 Time: 1155
Field Personnel: Lorne Finish Date: Save Time: 1220

WELL INFORMATION

EVENT TYPE

Well ID: DED1 Well Development
Casing ID: 2 Inches: 2 Well Volume Approach Sampling
Low-Flow / Low Stress Sampling
Other (Specify) Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1 or +/- 3%	pH (SU) +/- 0.1	SEC or Cond. (µS/cm) +/- 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTUs	ORP (mV) +/- 10mV	Visual Clarity
Purge	0	1155		40.24								
	5	1200		40.62		18.1	10.13	2.791	1.69	6.52	128.7	Clear
	10	1205		40.72		18.0	10.20	2.769	1.75	3.67	118.9	
	15	1210		40.79		18.0	10.22	2.801	1.85	3.17	117.2	
	20	1215		40.82		18.0	10.24	2.819	1.92	3.07	115.7	
	25	1220	26.1	40.99		17.9	10.24	2.819	1.89	3.15	115.0	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

ABBREVIATIONS

Sample ID: DED1
Sampled @ 1220 on 7/30/24

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

ANALYTICAL REPORT

PREPARED FOR

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

Generated 08/30/24 14:48:35

JOB DESCRIPTION

VER-24Q3
VER_000_RAD

JOB NUMBER

500-254245-2

Eurofins Chicago

Job Notes

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

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Authorization



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08/30/24 14:48:35

Authorized for release by
Dirk Nelson, Project Management Assistant II
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Case Narrative

Client: Vistra Energy Corp
Project: VER-24Q3

Job ID: 500-254245-2

Job ID: 500-254245-2

Eurofins Chicago

Job Narrative 500-254245-2

Receipt

The samples were received on 07/30/24 12:10. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 8 coolers at receipt time were 0.2° C, 3.2° C, 3.2° C, 3.8° C, 4.1° C, 4.7° C, 4.8° C and 5.3° C.

Receipt Exceptions

Received bottles for sample 6 not marked on COC, logged them in.

Only received a plastic 1L with about 650ml for sample 26. VER_071&D (500-254245-26) - Insufficient sample for Radium analysis, not logged in.

RAD

Methods 904.0, 9320: Radium 228 Batch 674049: The matrix spike (MS/) recovery for 160-674049 was outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_022	Lab Sample ID: 500-254245-1
No Detections.	
Client Sample ID: VER_041	Lab Sample ID: 500-254245-2
No Detections.	
Client Sample ID: VER_021	Lab Sample ID: 500-254245-3
No Detections.	
Client Sample ID: VER_038	Lab Sample ID: 500-254245-4
No Detections.	
Client Sample ID: VER_038_FD	Lab Sample ID: 500-254245-5
No Detections.	
Client Sample ID: VER_042	Lab Sample ID: 500-254245-6
No Detections.	
Client Sample ID: VER_043	Lab Sample ID: 500-254245-7
No Detections.	
Client Sample ID: VER_043_FD	Lab Sample ID: 500-254245-8
No Detections.	
Client Sample ID: VER_070&D	Lab Sample ID: 500-254245-9
No Detections.	
Client Sample ID: VER_070#S	Lab Sample ID: 500-254245-10
No Detections.	
Client Sample ID: VER_071#S	Lab Sample ID: 500-254245-11
No Detections.	
Client Sample ID: VER_FB	Lab Sample ID: 500-254245-14
No Detections.	
Client Sample ID: VER_EB	Lab Sample ID: 500-254245-15
No Detections.	
Client Sample ID: VER_003R	Lab Sample ID: 500-254245-16
No Detections.	
Client Sample ID: VER_003R_FD	Lab Sample ID: 500-254245-17
No Detections.	
Client Sample ID: VER_004	Lab Sample ID: 500-254245-18
No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_008R	Lab Sample ID: 500-254245-19
No Detections.	
Client Sample ID: VER_016A	Lab Sample ID: 500-254245-20
No Detections.	
Client Sample ID: VER_020	Lab Sample ID: 500-254245-21
No Detections.	
Client Sample ID: VER_016A_FD	Lab Sample ID: 500-254245-22
No Detections.	
Client Sample ID: VER_035&D	Lab Sample ID: 500-254245-23
No Detections.	
Client Sample ID: VER_005	Lab Sample ID: 500-254245-24
No Detections.	
Client Sample ID: VER_010	Lab Sample ID: 500-254245-25
No Detections.	

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_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-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-254245-1	VER_022	Water	07/29/24 16:50	07/30/24 12:10
500-254245-2	VER_041	Water	07/29/24 16:40	07/30/24 12:10
500-254245-3	VER_021	Water	07/30/24 15:10	07/31/24 12:35
500-254245-4	VER_038	Water	07/30/24 14:40	07/31/24 12:35
500-254245-5	VER_038_FD	Water	07/30/24 14:55	07/31/24 12:35
500-254245-6	VER_042	Water	07/30/24 09:45	07/31/24 12:35
500-254245-7	VER_043	Water	07/30/24 10:50	07/31/24 12:35
500-254245-8	VER_043_FD	Water	07/30/24 11:00	07/31/24 12:35
500-254245-9	VER_070&D	Water	07/30/24 09:00	07/31/24 12:35
500-254245-10	VER_070#S	Water	07/30/24 08:10	07/31/24 12:35
500-254245-11	VER_071#S	Water	07/30/24 12:28	07/31/24 12:35
500-254245-14	VER_FB	Water	07/30/24 07:00	07/31/24 12:35
500-254245-15	VER_EB	Water	07/30/24 07:00	07/31/24 12:35
500-254245-16	VER_003R	Water	07/31/24 14:25	08/01/24 12:30
500-254245-17	VER_003R_FD	Water	07/31/24 14:25	08/01/24 12:30
500-254245-18	VER_004	Water	07/31/24 11:00	08/01/24 12:30
500-254245-19	VER_008R	Water	07/31/24 12:50	08/01/24 12:30
500-254245-20	VER_016A	Water	07/31/24 09:05	08/01/24 12:30
500-254245-21	VER_020	Water	07/31/24 10:00	08/01/24 12:30
500-254245-22	VER_016A_FD	Water	07/31/24 09:05	08/01/24 12:30
500-254245-23	VER_035&D	Water	07/31/24 13:05	08/01/24 12:30
500-254245-24	VER_005	Water	08/01/24 08:15	08/01/24 12:30
500-254245-25	VER_010	Water	08/01/24 08:00	08/01/24 12:30

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_022

Lab Sample ID: 500-254245-1

Date Collected: 07/29/24 16:50

Matrix: Water

Date Received: 07/30/24 12:10

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	0.336		0.101	0.105	1.00	0.0813	pCi/L	08/06/24 16:49	08/29/24 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		30 - 110					08/06/24 16:49	08/29/24 09:34	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.500		0.317	0.320	1.00	0.460	pCi/L	08/06/24 16:52	08/15/24 10:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		30 - 110					08/06/24 16:52	08/15/24 10:43	1
Y Carrier	80.4		30 - 110					08/06/24 16:52	08/15/24 10:43	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	0.836		0.333	0.337	5.00	0.460	pCi/L		08/30/24 09:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_041

Lab Sample ID: 500-254245-2

Date Collected: 07/29/24 16:40

Matrix: Water

Date Received: 07/30/24 12:10

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	0.262		0.107	0.109	1.00	0.107	pCi/L	08/06/24 16:49	08/29/24 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					08/06/24 16:49	08/29/24 09:34	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.922		0.477	0.484	1.00	0.674	pCi/L	08/06/24 16:52	08/15/24 10:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					08/06/24 16:52	08/15/24 10:43	1
Y Carrier	82.6		30 - 110					08/06/24 16:52	08/15/24 10:43	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	1.18		0.489	0.496	5.00	0.674	pCi/L		08/30/24 09:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_021

Lab Sample ID: 500-254245-3

Date Collected: 07/30/24 15:10

Matrix: Water

Date Received: 07/31/24 12:35

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125		0.0762	0.0771	1.00	0.0915	pCi/L	08/06/24 16:49	08/29/24 09:34	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		30 - 110					08/06/24 16:49	08/29/24 09:34	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.04		0.494	0.503	1.00	0.681	pCi/L	08/06/24 16:52	08/15/24 10:43	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		30 - 110					08/06/24 16:52	08/15/24 10:43	1
Y Carrier	81.5		30 - 110					08/06/24 16:52	08/15/24 10:43	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.16		0.500	0.509	5.00	0.681	pCi/L		08/30/24 09:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_038

Lab Sample ID: 500-254245-4

Date Collected: 07/30/24 14:40

Matrix: Water

Date Received: 07/31/24 12:35

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	0.478		0.139	0.146	1.00	0.112	pCi/L	08/06/24 16:49	08/29/24 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					08/06/24 16:49	08/29/24 09:36	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	1.05		0.516	0.525	1.00	0.726	pCi/L	08/06/24 16:52	08/15/24 10:45	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.8		30 - 110					08/06/24 16:52	08/15/24 10:45	1
Y Carrier	81.5		30 - 110					08/06/24 16:52	08/15/24 10:45	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	1.52		0.534	0.545	5.00	0.726	pCi/L		08/30/24 09:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_038_FD

Lab Sample ID: 500-254245-5

Date Collected: 07/30/24 14:55

Matrix: Water

Date Received: 07/31/24 12:35

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	0.450		0.134	0.140	1.00	0.107	pCi/L	08/06/24 16:49	08/29/24 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					08/06/24 16:49	08/29/24 09:36	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	1.34		0.515	0.529	1.00	0.652	pCi/L	08/06/24 16:52	08/15/24 10:46	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					08/06/24 16:52	08/15/24 10:46	1
Y Carrier	81.5		30 - 110					08/06/24 16:52	08/15/24 10:46	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	1.79		0.532	0.547	5.00	0.652	pCi/L		08/30/24 09:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_042

Lab Sample ID: 500-254245-6

Date Collected: 07/30/24 09:45

Matrix: Water

Date Received: 07/31/24 12:35

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	0.333		0.102	0.106	1.00	0.0819	pCi/L	08/06/24 16:56	08/29/24 15:54	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		30 - 110					08/06/24 16:56	08/29/24 15:54	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	0.231	U	0.370	0.370	1.00	0.630	pCi/L	08/06/24 17:02	08/14/24 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		30 - 110					08/06/24 17:02	08/14/24 12:58	1
Y Carrier	81.1		30 - 110					08/06/24 17:02	08/14/24 12:58	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	0.564	U	0.384	0.385	5.00	0.630	pCi/L		08/30/24 09:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_043

Lab Sample ID: 500-254245-7

Date Collected: 07/30/24 10:50

Matrix: Water

Date Received: 07/31/24 12:35

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	0.212		0.0829	0.0851	1.00	0.0741	pCi/L	08/06/24 16:49	08/29/24 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					08/06/24 16:49	08/29/24 09:36	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	0.478		0.298	0.301	1.00	0.422	pCi/L	08/06/24 16:52	08/15/24 11:26	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					08/06/24 16:52	08/15/24 11:26	1
Y Carrier	82.6		30 - 110					08/06/24 16:52	08/15/24 11:26	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	0.690		0.309	0.313	5.00	0.422	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_043_FD

Lab Sample ID: 500-254245-8

Date Collected: 07/30/24 11:00

Matrix: Water

Date Received: 07/31/24 12:35

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	0.292		0.0942	0.0978	1.00	0.0753	pCi/L	08/06/24 16:49	08/29/24 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		30 - 110					08/06/24 16:49	08/29/24 09:36	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	0.426	U	0.359	0.361	1.00	0.563	pCi/L	08/06/24 16:52	08/15/24 11:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.4		30 - 110					08/06/24 16:52	08/15/24 11:27	1
Y Carrier	82.6		30 - 110					08/06/24 16:52	08/15/24 11:27	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	0.718		0.371	0.374	5.00	0.563	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_070&D

Lab Sample ID: 500-254245-9

Date Collected: 07/30/24 09:00

Matrix: Water

Date Received: 07/31/24 12:35

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	0.423		0.131	0.137	1.00	0.111	pCi/L	08/06/24 16:49	08/29/24 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					08/06/24 16:49	08/29/24 09:36	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	1.02		0.453	0.463	1.00	0.581	pCi/L	08/06/24 16:52	08/15/24 11:27	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	99.0		30 - 110					08/06/24 16:52	08/15/24 11:27	1
Y Carrier	81.5		30 - 110					08/06/24 16:52	08/15/24 11:27	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	1.45		0.472	0.483	5.00	0.581	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_070#S

Lab Sample ID: 500-254245-10

Date Collected: 07/30/24 08:10

Matrix: Water

Date Received: 07/31/24 12:35

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	0.0243	U	0.0611	0.0612	1.00	0.112	pCi/L	08/06/24 16:49	08/29/24 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					08/06/24 16:49	08/29/24 09:36	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	0.314	U	0.322	0.324	1.00	0.520	pCi/L	08/06/24 16:52	08/15/24 11:28	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	90.4		30 - 110					08/06/24 16:52	08/15/24 11:28	1
Y Carrier	83.4		30 - 110					08/06/24 16:52	08/15/24 11:28	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	0.338	U	0.328	0.330	5.00	0.520	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_071#S

Lab Sample ID: 500-254245-11

Date Collected: 07/30/24 12:28

Matrix: Water

Date Received: 07/31/24 12:35

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	0.106		0.0707	0.0714	1.00	0.0937	pCi/L	08/06/24 16:49	08/29/24 09:36	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		30 - 110					08/06/24 16:49	08/29/24 09:36	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	0.286	U	0.316	0.317	1.00	0.515	pCi/L	08/06/24 16:52	08/15/24 11:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	84.5		30 - 110					08/06/24 16:52	08/15/24 11:29	1
Y Carrier	83.4		30 - 110					08/06/24 16:52	08/15/24 11:29	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	0.393	U	0.324	0.325	5.00	0.515	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_FB

Lab Sample ID: 500-254245-14

Date Collected: 07/30/24 07:00

Matrix: Water

Date Received: 07/31/24 12:35

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	0.0567	U	0.0557	0.0559	1.00	0.0857	pCi/L	08/06/24 16:49	08/29/24 09:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		30 - 110					08/06/24 16:49	08/29/24 09:38	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	0.0674	U	0.299	0.299	1.00	0.539	pCi/L	08/06/24 16:52	08/15/24 11:29	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.1		30 - 110					08/06/24 16:52	08/15/24 11:29	1
Y Carrier	83.0		30 - 110					08/06/24 16:52	08/15/24 11:29	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	0.124	U	0.304	0.304	5.00	0.539	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_EB

Lab Sample ID: 500-254245-15

Date Collected: 07/30/24 07:00

Matrix: Water

Date Received: 07/31/24 12:35

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	0.0328	U	0.0606	0.0606	1.00	0.107	pCi/L	08/06/24 16:49	08/29/24 09:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					08/06/24 16:49	08/29/24 09:38	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	0.406	U	0.335	0.337	1.00	0.521	pCi/L	08/06/24 16:52	08/15/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.9		30 - 110					08/06/24 16:52	08/15/24 11:31	1
Y Carrier	83.7		30 - 110					08/06/24 16:52	08/15/24 11:31	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	0.438	U	0.340	0.342	5.00	0.521	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_003R

Lab Sample ID: 500-254245-16

Date Collected: 07/31/24 14:25

Matrix: Water

Date Received: 08/01/24 12:30

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	0.325		0.130	0.134	1.00	0.148	pCi/L	08/06/24 16:49	08/29/24 09:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		30 - 110					08/06/24 16:49	08/29/24 09:38	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	1.56		0.520	0.539	1.00	0.600	pCi/L	08/06/24 16:52	08/15/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.1		30 - 110					08/06/24 16:52	08/15/24 11:31	1
Y Carrier	83.7		30 - 110					08/06/24 16:52	08/15/24 11:31	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	1.89		0.536	0.555	5.00	0.600	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_003R_FD

Lab Sample ID: 500-254245-17

Date Collected: 07/31/24 14:25

Matrix: Water

Date Received: 08/01/24 12:30

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		0.152	0.160	1.00	0.119	pCi/L	08/06/24 16:49	08/29/24 09:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					08/06/24 16:49	08/29/24 09:38	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	0.697		0.426	0.431	1.00	0.612	pCi/L	08/06/24 16:52	08/15/24 11:31	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.1		30 - 110					08/06/24 16:52	08/15/24 11:31	1
Y Carrier	85.2		30 - 110					08/06/24 16:52	08/15/24 11:31	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	1.25		0.452	0.460	5.00	0.612	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_004

Lab Sample ID: 500-254245-18

Date Collected: 07/31/24 11:00

Matrix: Water

Date Received: 08/01/24 12:30

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	0.414		0.116	0.122	1.00	0.0938	pCi/L	08/06/24 16:49	08/29/24 09:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		30 - 110					08/06/24 16:49	08/29/24 09:38	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	0.614		0.356	0.360	1.00	0.513	pCi/L	08/06/24 16:52	08/15/24 11:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.4		30 - 110					08/06/24 16:52	08/15/24 11:32	1
Y Carrier	85.2		30 - 110					08/06/24 16:52	08/15/24 11:32	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	1.03		0.374	0.380	5.00	0.513	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_008R

Lab Sample ID: 500-254245-19

Date Collected: 07/31/24 12:50

Matrix: Water

Date Received: 08/01/24 12:30

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	0.131		0.0763	0.0773	1.00	0.0949	pCi/L	08/06/24 16:49	08/29/24 09:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		30 - 110					08/06/24 16:49	08/29/24 09:39	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	0.830		0.431	0.438	1.00	0.606	pCi/L	08/06/24 16:52	08/15/24 11:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	82.6		30 - 110					08/06/24 16:52	08/15/24 11:32	1
Y Carrier	84.5		30 - 110					08/06/24 16:52	08/15/24 11:32	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	0.961		0.438	0.445	5.00	0.606	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_016A

Lab Sample ID: 500-254245-20

Date Collected: 07/31/24 09:05

Matrix: Water

Date Received: 08/01/24 12:30

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	0.774		0.183	0.196	1.00	0.128	pCi/L	08/06/24 16:49	08/29/24 09:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		30 - 110					08/06/24 16:49	08/29/24 09:39	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	1.18		0.550	0.560	1.00	0.733	pCi/L	08/06/24 16:52	08/15/24 11:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	85.5		30 - 110					08/06/24 16:52	08/15/24 11:32	1
Y Carrier	81.1		30 - 110					08/06/24 16:52	08/15/24 11:32	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	1.95		0.580	0.593	5.00	0.733	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_020

Lab Sample ID: 500-254245-21

Date Collected: 07/31/24 10:00

Matrix: Water

Date Received: 08/01/24 12:30

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	0.0801	U	0.0747	0.0750	1.00	0.115	pCi/L	08/06/24 16:49	08/29/24 09:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					08/06/24 16:49	08/29/24 09:39	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	0.841		0.362	0.370	1.00	0.469	pCi/L	08/06/24 16:52	08/15/24 11:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	91.6		30 - 110					08/06/24 16:52	08/15/24 11:32	1
Y Carrier	89.0		30 - 110					08/06/24 16:52	08/15/24 11:32	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	0.921		0.370	0.378	5.00	0.469	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_016A_FD

Lab Sample ID: 500-254245-22

Date Collected: 07/31/24 09:05

Matrix: Water

Date Received: 08/01/24 12:30

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	0.668		0.140	0.153	1.00	0.0891	pCi/L	08/06/24 16:49	08/29/24 09:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					08/06/24 16:49	08/29/24 09:39	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	0.585		0.339	0.343	1.00	0.486	pCi/L	08/06/24 16:52	08/15/24 11:32	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					08/06/24 16:52	08/15/24 11:32	1
Y Carrier	88.6		30 - 110					08/06/24 16:52	08/15/24 11:32	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	1.25		0.367	0.376	5.00	0.486	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_035&D

Lab Sample ID: 500-254245-23

Date Collected: 07/31/24 13:05

Matrix: Water

Date Received: 08/01/24 12:30

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	0.134		0.0700	0.0710	1.00	0.0812	pCi/L	08/06/24 16:56	08/29/24 15:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					08/06/24 16:56	08/29/24 15:56	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	0.764		0.409	0.415	1.00	0.568	pCi/L	08/06/24 17:02	08/14/24 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.4		30 - 110					08/06/24 17:02	08/14/24 12:58	1
Y Carrier	80.4		30 - 110					08/06/24 17:02	08/14/24 12:58	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		0.415	0.421	5.00	0.568	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_005

Lab Sample ID: 500-254245-24

Date Collected: 08/01/24 08:15

Matrix: Water

Date Received: 08/01/24 12:30

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	0.114		0.0639	0.0648	1.00	0.0770	pCi/L	08/06/24 16:56	08/29/24 15:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		30 - 110					08/06/24 16:56	08/29/24 15:56	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	0.304	U	0.375	0.376	1.00	0.621	pCi/L	08/06/24 17:02	08/14/24 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.6		30 - 110					08/06/24 17:02	08/14/24 12:58	1
Y Carrier	76.3		30 - 110					08/06/24 17:02	08/14/24 12:58	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	0.418	U	0.380	0.382	5.00	0.621	pCi/L		08/30/24 14:39	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_010

Lab Sample ID: 500-254245-25

Date Collected: 08/01/24 08:00

Matrix: Water

Date Received: 08/01/24 12:30

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	0.131		0.0649	0.0660	1.00	0.0685	pCi/L	08/06/24 16:56	08/29/24 15:56	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		30 - 110					08/06/24 16:56	08/29/24 15:56	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	0.0711	U	0.284	0.284	1.00	0.519	pCi/L	08/06/24 17:02	08/14/24 12:58	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	95.6		30 - 110					08/06/24 17:02	08/14/24 12:58	1
Y Carrier	83.4		30 - 110					08/06/24 17:02	08/14/24 12:58	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	0.202	U	0.291	0.292	5.00	0.519	pCi/L		08/30/24 14:39	1

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Qualifiers

Rad

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Rad

Prep Batch: 674043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total/NA	Water	PrecSep-21	
500-254245-2	VER_041	Total/NA	Water	PrecSep-21	
500-254245-3	VER_021	Total/NA	Water	PrecSep-21	
500-254245-4	VER_038	Total/NA	Water	PrecSep-21	
500-254245-5	VER_038_FD	Total/NA	Water	PrecSep-21	
500-254245-7	VER_043	Total/NA	Water	PrecSep-21	
500-254245-8	VER_043_FD	Total/NA	Water	PrecSep-21	
500-254245-9	VER_070&D	Total/NA	Water	PrecSep-21	
500-254245-10	VER_070#S	Total/NA	Water	PrecSep-21	
500-254245-11	VER_071#S	Total/NA	Water	PrecSep-21	
500-254245-14	VER_FB	Total/NA	Water	PrecSep-21	
500-254245-15	VER_EB	Total/NA	Water	PrecSep-21	
500-254245-16	VER_003R	Total/NA	Water	PrecSep-21	
500-254245-17	VER_003R_FD	Total/NA	Water	PrecSep-21	
500-254245-18	VER_004	Total/NA	Water	PrecSep-21	
500-254245-19	VER_008R	Total/NA	Water	PrecSep-21	
500-254245-20	VER_016A	Total/NA	Water	PrecSep-21	
500-254245-21	VER_020	Total/NA	Water	PrecSep-21	
500-254245-22	VER_016A_FD	Total/NA	Water	PrecSep-21	
MB 160-674043/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-674043/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-254245-3 MS	VER_021	Total/NA	Water	PrecSep-21	
500-254245-3 MSD	VER_021	Total/NA	Water	PrecSep-21	

Prep Batch: 674047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-1	VER_022	Total/NA	Water	PrecSep_0	
500-254245-2	VER_041	Total/NA	Water	PrecSep_0	
500-254245-3	VER_021	Total/NA	Water	PrecSep_0	
500-254245-4	VER_038	Total/NA	Water	PrecSep_0	
500-254245-5	VER_038_FD	Total/NA	Water	PrecSep_0	
500-254245-7	VER_043	Total/NA	Water	PrecSep_0	
500-254245-8	VER_043_FD	Total/NA	Water	PrecSep_0	
500-254245-9	VER_070&D	Total/NA	Water	PrecSep_0	
500-254245-10	VER_070#S	Total/NA	Water	PrecSep_0	
500-254245-11	VER_071#S	Total/NA	Water	PrecSep_0	
500-254245-14	VER_FB	Total/NA	Water	PrecSep_0	
500-254245-15	VER_EB	Total/NA	Water	PrecSep_0	
500-254245-16	VER_003R	Total/NA	Water	PrecSep_0	
500-254245-17	VER_003R_FD	Total/NA	Water	PrecSep_0	
500-254245-18	VER_004	Total/NA	Water	PrecSep_0	
500-254245-19	VER_008R	Total/NA	Water	PrecSep_0	
500-254245-20	VER_016A	Total/NA	Water	PrecSep_0	
500-254245-21	VER_020	Total/NA	Water	PrecSep_0	
500-254245-22	VER_016A_FD	Total/NA	Water	PrecSep_0	
MB 160-674047/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-674047/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-254245-3 MS	VER_021	Total/NA	Water	PrecSep_0	
500-254245-3 MSD	VER_021	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Rad

Prep Batch: 674048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-6	VER_042	Total/NA	Water	PrecSep-21	
500-254245-23	VER_035&D	Total/NA	Water	PrecSep-21	
500-254245-24	VER_005	Total/NA	Water	PrecSep-21	
500-254245-25	VER_010	Total/NA	Water	PrecSep-21	
MB 160-674048/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-674048/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-254245-6 MS	VER_042	Total/NA	Water	PrecSep-21	
500-254245-6 MSD	VER_042	Total/NA	Water	PrecSep-21	

Prep Batch: 674049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-254245-6	VER_042	Total/NA	Water	PrecSep_0	
500-254245-23	VER_035&D	Total/NA	Water	PrecSep_0	
500-254245-24	VER_005	Total/NA	Water	PrecSep_0	
500-254245-25	VER_010	Total/NA	Water	PrecSep_0	
MB 160-674049/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-674049/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-254245-6 MS	VER_042	Total/NA	Water	PrecSep_0	
500-254245-6 MSD	VER_042	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-674043/1-A

Matrix: Water

Analysis Batch: 677217

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 674043

Analyte	MB Result	MB Qualifier	Count Uncert. (2 σ +/-)	Total Uncert. (2 σ +/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.06106	U	0.0536	0.0539	1.00	0.0783	pCi/L	08/06/24 16:49	08/29/24 09:32	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					08/06/24 16:49	08/29/24 09:32	1

Lab Sample ID: LCS 160-674043/2-A

Matrix: Water

Analysis Batch: 677217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 674043

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2 σ +/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226			9.58	9.754		1.01	1.00	0.115	pCi/L	102	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits								
Ba Carrier	96.8		30 - 110								

Lab Sample ID: 500-254245-3 MS

Matrix: Water

Analysis Batch: 677217

Client Sample ID: VER_021

Prep Type: Total/NA

Prep Batch: 674043

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2 σ +/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.125		12.8	12.62		1.32	1.00	0.124	pCi/L	98	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	92.1		30 - 110								

Lab Sample ID: 500-254245-3 MSD

Matrix: Water

Analysis Batch: 677217

Client Sample ID: VER_021

Prep Type: Total/NA

Prep Batch: 674043

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2 σ +/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.125		12.8	13.16		1.37	1.00	0.121	pCi/L	102	60 - 140	0.20	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	91.6		30 - 110										

Lab Sample ID: MB 160-674048/1-A

Matrix: Water

Analysis Batch: 677217

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 674048

Analyte	MB Result	MB Qualifier	Count Uncert. (2 σ +/-)	Total Uncert. (2 σ +/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01755	U	0.0410	0.0411	1.00	0.0768	pCi/L	08/06/24 16:56	08/29/24 15:54	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-674048/1-A

Matrix: Water

Analysis Batch: 677217

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 674048

		MB	MB								
Carrier		%Yield	Qualifier	Limits		Prepared	Analyzed	Dil Fac			
Ba Carrier		98.5		30 - 110		08/06/24 16:56	08/29/24 15:54	1			

Lab Sample ID: LCS 160-674048/2-A

Matrix: Water

Analysis Batch: 677217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 674048

						Total					%Rec		
Analyte		Spike	LCS	LCS	Uncert.	(2σ+/-)	RL	MDC	Unit	%Rec	Limits		
Radium-226		9.58	9.436		0.982	1.00	0.0766	pCi/L	99	75 - 125			
		LCS	LCS										
Carrier		%Yield	Qualifier	Limits									
Ba Carrier		95.6		30 - 110									

Lab Sample ID: 500-254245-6 MS

Matrix: Water

Analysis Batch: 677217

Client Sample ID: VER_042

Prep Type: Total/NA

Prep Batch: 674048

Analyte	Sample	Sample	Spike	MS	MS	Total	RL	MDC	Unit	%Rec	%Rec		
	Result	Qual	Added	Result	Qual	Uncert. (2σ+/-)					Limits		
Radium-226	0.333		9.56	8.769		0.934	1.00	0.124	pCi/L	88	60 - 140		
Carrier	MS %Yield	MS Qualifier	Limits										
Ba Carrier	86.2		30 - 110										

Lab Sample ID: 500-254245-6 MSD

Matrix: Water

Analysis Batch: 677217

Client Sample ID: VER_042

Prep Type: Total/NA

Prep Batch: 674048

Total													
	Sample	Sample	Spike	MSD	MSD	Total					%Rec		RER
Analyte	Result	Qual	Added	Result	Qual	Uncert.	RL	MDC	Unit	%Rec	Limits	RER	Limit
Radium-226	0.333		9.53	8.731		0.935	1.00	0.109	pCi/L	88	60 - 140	0.02	1
MSD													
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	80.3		30 - 110										

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-674047/1-A

Matrix: Water

Analysis Batch: 675248

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 674047

		MB	MB	Count	Total								
Analyte		Result	Qualifier	Uncert.	Uncert.	RL	MDC	Unit	Prepared	Analyzed	Dil Fac		
Radium-228		0.4763		0.302	0.305	1.00	0.443	pCi/L	08/06/24 16:52	08/15/24 10:43	1		
		MB	MB										
Carrier		%Yield	Qualifier	Limits									
Ba Carrier		94.3		30 - 110									

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-674047/1-A
Matrix: Water
Analysis Batch: 675248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674047

	MB	MB										
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac						
Y Carrier	83.4		30 - 110	08/06/24 16:52	08/15/24 10:43	1						

Lab Sample ID: LCS 160-674047/2-A
Matrix: Water
Analysis Batch: 675248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674047

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228		8.67	10.07		1.30	1.00	0.453	pCi/L	116	75 - 125		
Carrier	LCS	LCS										
	%Yield	Qualifier	Limits									
Ba Carrier	96.8		30 - 110									
Y Carrier	82.2		30 - 110									

Lab Sample ID: 500-254245-3 MS
Matrix: Water
Analysis Batch: 675122

Client Sample ID: VER_021
Prep Type: Total/NA
Prep Batch: 674047

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	1.04		11.6	13.77		1.79	1.00	0.640	pCi/L	110	60 - 140		
Carrier	MS	MS											
	%Yield	Qualifier	Limits										
Ba Carrier	92.1		30 - 110										
Y Carrier	82.2		30 - 110										

Lab Sample ID: 500-254245-3 MSD
Matrix: Water
Analysis Batch: 675122

Client Sample ID: VER_021
Prep Type: Total/NA
Prep Batch: 674047

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	1.04		11.5	14.95		1.91	1.00	0.628	pCi/L	120	60 - 140	0.32	1
Carrier	MSD	MSD											
	%Yield	Qualifier	Limits										
Ba Carrier	91.6		30 - 110										
Y Carrier	82.6		30 - 110										

Lab Sample ID: MB 160-674049/1-A
Matrix: Water
Analysis Batch: 674941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674049

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5494		0.365	0.369	1.00	0.543	pCi/L	08/06/24 17:02	08/14/24 12:57	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: MB 160-674049/1-A

Matrix: Water

Analysis Batch: 674941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 674049

	MB	MB				
Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	98.5		30 - 110	08/06/24 17:02	08/14/24 12:57	1
Y Carrier	84.1		30 - 110	08/06/24 17:02	08/14/24 12:57	1

Lab Sample ID: LCS 160-674049/2-A

Matrix: Water

Analysis Batch: 674941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 674049

Top Entry of 10/10									
Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.68	10.40		1.43	1.00	0.649	pCi/L	120	75 - 125

	LCS	LCS	
<u>Carrier</u>	<u>%Yield</u>	<u>Qualifier</u>	<u>Limits</u>
Ba Carrier	95.6		30 - 110
Y Carrier	83.0		30 - 110

Lab Sample ID: 500-254245-6 MS

Matrix: Water

Analysis Batch: 674941

Client Sample ID: VER_042

Prep Type: Total/NA

Prep Batch: 674049

Total											
Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	0.231	U	8.66	13.40	F1	1.75	1.00	0.588	pCi/L	152	60 - 140

	MS	MS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	86.2		30 - 110
Y Carrier	80.7		30 - 110

Lab Sample ID: 500-254245-6 MSD

Matrix: Water

Analysis Batch: 674941

Client Sample ID: VER_042

Prep Type: Total/NA

Prep Batch: 674049

		Sample	Sample	Spike	MSD	MSD	Total									
Analyte		Result	Qual	Added	Result	Qual	Uncert.	RL	MDC	Unit	%Rec	%Rec	Limits	RER	RER	Limit
Radium-228		0.231	U	8.63	10.36		1.53	1.00	0.779	pCi/L	117	60 - 140	0.92	1		

	MSD	MSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	80.3		30 - 110
Y Carrier	77.0		30 - 110

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_022

Lab Sample ID: 500-254245-1

Date Collected: 07/29/24 16:50

Matrix: Water

Date Received: 07/30/24 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 09:34
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675248	SWS	EET SL	08/15/24 10:43
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 09:06

Client Sample ID: VER_041

Lab Sample ID: 500-254245-2

Date Collected: 07/29/24 16:40

Matrix: Water

Date Received: 07/30/24 12:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 09:34
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675248	SWS	EET SL	08/15/24 10:43
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 09:06

Client Sample ID: VER_021

Lab Sample ID: 500-254245-3

Date Collected: 07/30/24 15:10

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 09:34
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675248	SWS	EET SL	08/15/24 10:43
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 09:06

Client Sample ID: VER_038

Lab Sample ID: 500-254245-4

Date Collected: 07/30/24 14:40

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 09:36
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 10:45
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 09:06

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_038_FD

Lab Sample ID: 500-254245-5

Date Collected: 07/30/24 14:55

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 09:36
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 10:46
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 09:06

Client Sample ID: VER_042

Lab Sample ID: 500-254245-6

Date Collected: 07/30/24 09:45

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674048	MLT	EET SL	08/06/24 16:56
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 15:54
Total/NA	Prep	PrecSep_0			674049	MLT	EET SL	08/06/24 17:02
Total/NA	Analysis	904.0		1	674941	SCB	EET SL	08/14/24 12:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 09:06

Client Sample ID: VER_043

Lab Sample ID: 500-254245-7

Date Collected: 07/30/24 10:50

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 09:36
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675248	SWS	EET SL	08/15/24 11:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_043_FD

Lab Sample ID: 500-254245-8

Date Collected: 07/30/24 11:00

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 09:36
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:27
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_070&D

Lab Sample ID: 500-254245-9

Date Collected: 07/30/24 09:00

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 09:36
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:27
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_070#S

Lab Sample ID: 500-254245-10

Date Collected: 07/30/24 08:10

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 09:36
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:28
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_071#S

Lab Sample ID: 500-254245-11

Date Collected: 07/30/24 12:28

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 09:36
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:29
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_FB

Lab Sample ID: 500-254245-14

Date Collected: 07/30/24 07:00

Matrix: Water

Date Received: 07/31/24 12:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677336	FLC	EET SL	08/29/24 09:38
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:29
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_EB

Date Collected: 07/30/24 07:00

Date Received: 07/31/24 12:35

Lab Sample ID: 500-254245-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677336	FLC	EET SL	08/29/24 09:38
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_003R

Date Collected: 07/31/24 14:25

Date Received: 08/01/24 12:30

Lab Sample ID: 500-254245-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677336	FLC	EET SL	08/29/24 09:38
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_003R_FD

Date Collected: 07/31/24 14:25

Date Received: 08/01/24 12:30

Lab Sample ID: 500-254245-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677336	FLC	EET SL	08/29/24 09:38
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_004

Date Collected: 07/31/24 11:00

Date Received: 08/01/24 12:30

Lab Sample ID: 500-254245-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677336	FLC	EET SL	08/29/24 09:38
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_008R

Lab Sample ID: 500-254245-19

Date Collected: 07/31/24 12:50

Matrix: Water

Date Received: 08/01/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677336	FLC	EET SL	08/29/24 09:39
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_016A

Lab Sample ID: 500-254245-20

Date Collected: 07/31/24 09:05

Matrix: Water

Date Received: 08/01/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677336	FLC	EET SL	08/29/24 09:39
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_020

Lab Sample ID: 500-254245-21

Date Collected: 07/31/24 10:00

Matrix: Water

Date Received: 08/01/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677336	FLC	EET SL	08/29/24 09:39
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_016A_FD

Lab Sample ID: 500-254245-22

Date Collected: 07/31/24 09:05

Matrix: Water

Date Received: 08/01/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674043	MLT	EET SL	08/06/24 16:49
Total/NA	Analysis	903.0		1	677336	FLC	EET SL	08/29/24 09:39
Total/NA	Prep	PrecSep_0			674047	MLT	EET SL	08/06/24 16:52
Total/NA	Analysis	904.0		1	675122	SCB	EET SL	08/15/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Client Sample ID: VER_035&D

Lab Sample ID: 500-254245-23

Date Collected: 07/31/24 13:05

Matrix: Water

Date Received: 08/01/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674048	MLT	EET SL	08/06/24 16:56
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 15:56
Total/NA	Prep	PrecSep_0			674049	MLT	EET SL	08/06/24 17:02
Total/NA	Analysis	904.0		1	674941	SCB	EET SL	08/14/24 12:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_005

Lab Sample ID: 500-254245-24

Date Collected: 08/01/24 08:15

Matrix: Water

Date Received: 08/01/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674048	MLT	EET SL	08/06/24 16:56
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 15:56
Total/NA	Prep	PrecSep_0			674049	MLT	EET SL	08/06/24 17:02
Total/NA	Analysis	904.0		1	674941	SCB	EET SL	08/14/24 12:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Client Sample ID: VER_010

Lab Sample ID: 500-254245-25

Date Collected: 08/01/24 08:00

Matrix: Water

Date Received: 08/01/24 12:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674048	MLT	EET SL	08/06/24 16:56
Total/NA	Analysis	903.0		1	677217	FLC	EET SL	08/29/24 15:56
Total/NA	Prep	PrecSep_0			674049	MLT	EET SL	08/06/24 17:02
Total/NA	Analysis	904.0		1	674941	SCB	EET SL	08/14/24 12:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	677427	FLC	EET SL	08/30/24 14:39

Laboratory References:

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

Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: VER-24Q3

Job ID: 500-254245-2
SDG: VER_000_RAD

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-24

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

Analysis Method	Prep Method	Matrix	Analyte
903.0	PrecSep-21	Water	Radium-226
904.0	PrecSep_0	Water	Radium-228
Ra226_Ra228 Pos		Water	Radium 226 and 228

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

Section C

Invoice Information



500-254245 COC

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

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER <u>Jorge F. Lewis</u> SIGNATURE of SAMPLER <u>[Signature]</u>		DATE Signed MM/DD/YYYY <u>7-30-24</u>	Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)

Rec'd by: J. N. 7/28/24 3/30/24 1000
Relinquished by: J. N. 7/30/24 210

 $3.9 \rightarrow 3.8$

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

Page 2 of 3

ITEM #	Section D Required Client Information	Valid Matrix Codes <u>MATRIX</u> <u>CODE</u> 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									<u>Y/N</u>	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	<u>Analysis Test</u>	VER_000_RAD	VER_845_910-911		VER_845_912	VER_NPDES_912	VER_000_A	VER_000_B	VER_000_D									
1	* VER_022					7/29/24	1650										X	X			X													
2	VER_034																X	X			X													
3	VER_035&D																X		X	X														
4	VER_035#S																X	X	X	X														
5	VER_036																	X																
6	VER_037																	X																
7	VER_038																X	X			X													
8	VER_038_FD																X	X			X													
9	* VER_041					7/29/24	1640										X	X			X													
10	VER_042																X	X			X													
11	VER_043																X	X			X													
12	VER_043_FD																X	X			X													
13	VER_070&D																X		X		X													
14	VER_070#S																X		X		X													
15	VER_071&D																X		X		X													
16	VER_071#S																X		X		X													
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION			DATE		TIME		SAMPLE CONDITIONS																	
VER-24Q3 Rev 0			Lorne F. Levicz			7-30-24		0700		[Signature]			7/30/24		1210																			

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>Boone J. Lewicz</i>					
SIGNATURE of SAMPLER <i>Boone J. Lewicz</i>	DATE Signed (MM/DD/YY) <i>7-30-24</i>				

Rec'd by: J. H. H. 7/30/24 1000
Relinquished by: J. H. H. 7/30/24 1200

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Page 3 of 3

[illegible]

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>Corne F. Lewicz</i>					
SIGNATURE of SAMPLER <i>[Signature]</i>	DATE Signed (MM/DD/YY) <i>7-30-24</i>				

Rec'd by: J. Williams 7/30/24 1000
Relinquished by: J. Williams 7/30/24 1210

500-254245

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500-254245 COC

Page 1 of 3

Company	Vistra Corp-Vermillion		Report To:	Brian Voelker		Attention:	Jason Stuckey		REGULATORY AGENCY		
Address	10188 E 2150 North Rd		Copy To:	Sam Davies samantha.davies@vistracorp.com		Company Name	Vistra Corp				
Danville, IL 61834			Dianna Tickner - dianna.tickner@vistracorp.com			Address:	see Section A				
Email To:	Brian.Voelker@VistraCorp.com		Purchase Order No.			Quote Reference					
Phone	(217) 753-8911	Fax:	Project Name			Project Manager:	Site Location		STATE	IL	
Requested Due Date/TAT		10 day				Project Number:					

[illegible]

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>John Flors</i>					
SIGNATURE of SAMPLER. <i>John Flors</i>	DATE Signed (MM/DD/YY) <i>7-30-24</i>				

Rec'd by: J. [Signature] 7/31/24 1015
Retained by: J. [Signature] 7/31/24 1235

5.4 → 5.3, 4.8 → 4.7
4.9 → 4.8, 3.5 → 3.2

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4
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JH Rel rec'd by: JH 7/31/24 1015
 Rel: JH 7/31/24 1235

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Rec'd by: J. Williams 7/31/24 1015
Rel: J. Williams 7/31/24 1235

500-254245

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Page 1 of 3

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information.		500-254245 COC		Page 1 of 3			
Company: Vistra Corp-Vermillion		Report To: Brian Voelker		Attention Jason Stuckey		REGULATORY AGENCY					
Address 10188 E 2150 North Rd		Copy To. Sam Davies samantha.davies@vistracorp.com		Company Name Vistra Corp							
Danville, IL 61834		Dianna Tickner - dianna.tickner@vistracorp.com		Address see Section A		NPDES		GROUND WATER		DRINKING WATER	
Email To Brian.Voelker@VistraCorp.com		Purchase Order No.		Quote Reference		UST		RCRA		OTHER	
Phone (217) 753-8911		Fax		Project Name		Site Location		IL			
Requested Due Date/TAT 10 day		Project Number		Project Manager		STATE					
				Profile #:							

[illegible]

22 * 16A-FD 7-31-24 0905 (moved From ver-010)

$$\begin{array}{l} 4.2 \rightarrow 4.1.0.3 \rightarrow 0.2 \\ 3.3 \rightarrow 3.2 \end{array}$$

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Section C
Invoice Information:

Page 2 of 3

Company	Vistra Corp-Vermillion	Report To	Brian Voelker	Attention	Jason Stuckey			
Address	10188 E 2150 North Rd	Copy To	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp	REGULATORY AGENCY		
	Danville, IL 61834		Dianna Tickner - dianna.tickner@vistracorp.com	Address	see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference		UST	RCRA	OTHER
Phone	(217) 753-8911	Fax		Project Name		Site Location		
	Requested Due Date/TAT	10 day	Project Number	Project Manager		STATE	IL	
			Profile #:					

23

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Section C
Invoice information.

Company: Vistra Corp-Vermillion		Report To: Brian Voelker	Attention: Jason Stuckey			
Address 10188 E 2150 North Rd		Copy To: Sam Davies samantha.davies@vistracorp.com	Company Name Vistra Corp	REGULATORY AGENCY		
Danville, IL 61834		Dianna Tickner - dianna.tickner@vistracorp.com	Address see Section A	NPDES	GROUND WATER	DRINKING WATER
Email To <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.	Quote Reference	UST	RCRA	OTHER
Phone (217) 753-8911	Fax	Project Name	Project Manager:	Site Location		
Requested Due Date/TAT 10 day		Project Number	Profile #:	STATE	IL	

08/30/24

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

Section C

Invoice Information

Company	Vistra Corp-Vermillion		Report To	Brian Voelker		Attention	Jason Stuckey				
Address	10188 E 2150 North Rd		Copy To	Sam Davies samantha.davies@vistracorp.com		Company Name	Vistra Corp		REGULATORY AGENCY		
	Danville, IL 61834			Dianna Tickner - dianna.tickner@vistracorp.com		Address	see Section A		NPDES	GROUND WATER	DRINKING WATER
Email To	Brian.Voelker@VistraCorp.com		Purchase Order No.			Quote Reference			UST	RCRA	OTHER
Phone	(217) 753-8911	Fax	Project Name		Project Manager		Site Location		IL		
Requested Due Date/TAT		10 day	Project Number		Profile #:		STATE				

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)					

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Page 2 of 3

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[illegible]08/30/24

Environment Testing

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



Client Information (Sub Contract Lab)			Lab PM	Carrier Tracking No(s)	COC No								
Client Contact:			Nelson, Dirk		500-191135.1								
Shipping/Receiving			E-Mail	State of Origin	Page								
Company			Dirk.Nelson@et.eurofins.com	Illinois	Page 1 of 2								
Address			Accreditations Required (See note)										
13715 Rider Trail North,			NELAP - Illinois										
City			Preservation Codes:										
Earth City													
State, Zip													
MO, 63045													
Phone													
314-298-8566(Tel) 314-298-8757(Fax)													
Email													
Project Name													
VER-24Q3													
Site													
Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=other, T=oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PreSep, 21 BL	904.0/PreSep, 0 BL	Ra226_228GFP_C_P/BL	Total Number of containers	Special Instructions/Note:
VER_021 (500-254245-3)	7/30/24	15:10 Central	Water						X	X	X	2	
VER_021 (500-254245-3MS)	7/30/24	15:10 Central	MS						X	X		2	
VER_021 (500-254245-3MSD)	7/30/24	15:10 Central	MSD						X	X		2	
VER_038 (500-254245-4)	7/30/24	14:40 Central	Water						X	X		2	
VER_038_FD (500-254245-5)	7/30/24	14:55 Central	Water						X	X		2	
VER_042 (500-254245-6)	7/30/24	09:45 Central	Water						X	X		2	
VER_042 (500-254245-6MS)	7/30/24	09:45 Central	MS						X	X		2	
VER_042 (500-254245-6MSD)	7/30/24	09:45 Central	MSD						X	X		2	
VER_043 (500-254245-7)	7/30/24	10:50 Central	Water						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

Empty Kit Relinquished by: _____ Date: _____

Relinquished by: _____ Date/Time: 07/31/24 1530 Company: CETA

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

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

Custody Seal No.: _____

Custody Seals Intact: ☐ Yes ☐ No

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements: _____

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

Received by: *M. Pinetta* Date/Time: AUG 01 2024 0840 Company: _____

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

Chain of Custody Record

Ver: 04/02/2024

Environment Testing

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-254245-2

SDG Number: VER_000_RAD

Login Number: 254245

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	3.8,5.3,4.7,4.8,3.2,4.1,0.2,3.2
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.	False	
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: 500-254245-2

SDG Number: VER_000_RAD

Login Number: 254245

List Number: 2

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 07/31/24 03:04 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (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: 500-254245-2

SDG Number: VER_000_RAD

Login Number: 254245

List Number: 3

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/01/24 01:31 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: 500-254245-2

SDG Number: VER_000_RAD

Login Number: 254245

List Number: 4

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 08/02/24 12:58 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?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Tracer/Carrier Summary

Client: Vistra Energy Corp

Job ID: 500-254245-2

Project/Site: VER-24Q3

SDG: VER_000_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)**Matrix: Water****Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-254245-6 MSD	VER_042	80.3	77.0
500-254245-7	VER_043	92.4	82.6
500-254245-8	VER_043_FD	93.4	82.6
500-254245-9	VER_070&D	99.0	81.5
500-254245-10	VER_070#S	90.4	83.4
500-254245-11	VER_071#S	84.5	83.4
500-254245-14	VER_FB	96.1	83.0
500-254245-15	VER_EB	93.9	83.7
500-254245-16	VER_003R	97.1	83.7
500-254245-17	VER_003R_FD	94.1	85.2
500-254245-18	VER_004	91.4	85.2
500-254245-19	VER_008R	82.6	84.5
500-254245-20	VER_016A	85.5	81.1
500-254245-21	VER_020	91.6	89.0
500-254245-22	VER_016A_FD	92.4	88.6
500-254245-23	VER_035&D	92.4	80.4
500-254245-24	VER_005	96.6	76.3
500-254245-25	VER_010	95.6	83.4
LCS 160-674047/2-A	Lab Control Sample	96.8	82.2
LCS 160-674049/2-A	Lab Control Sample	95.6	83.0
MB 160-674047/1-A	Method Blank	94.3	83.4
MB 160-674049/1-A	Method Blank	98.5	84.1

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier

ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 3, 2024

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
16B	UU	E006	Antimony, total	mg/L	--	--	--	--	NS ⁷	0.00500
16B	UU	E006	Arsenic, total	mg/L	--	--	--	--	NS ⁷	0.001
16B	UU	E006	Barium, total	mg/L	--	--	--	--	NS ⁷	0.0820
16B	UU	E006	Beryllium, total	mg/L	--	--	--	--	NS ⁷	0.001
16B	UU	E006	Boron, total	mg/L	--	--	--	--	NS ⁷	0.430
16B	UU	E006	Cadmium, total	mg/L	--	--	--	--	NS ⁷	0.001
16B	UU	E006	Chloride, total	mg/L	--	--	--	--	NS ⁷	20.4
16B	UU	E006	Chromium, total	mg/L	--	--	--	--	NS ⁷	0.00400
16B	UU	E006	Cobalt, total	mg/L	--	--	--	--	NS ⁷	0.0900
16B	UU	E006	Fluoride, total	mg/L	--	--	--	--	NS ⁷	0.430
16B	UU	E006	Lead, total	mg/L	--	--	--	--	NS ⁷	0.001
16B	UU	E006	Lithium, total	mg/L	--	--	--	--	NS ⁷	0.0300
16B	UU	E006	Mercury, total	mg/L	--	--	--	--	NS ⁷	0.0002
16B	UU	E006	Molybdenum, total	mg/L	--	--	--	--	NS ⁷	0.00400
16B	UU	E006	pH (field)	SU	--	--	--	--	NS ⁷	6.3/7.8
16B	UU	E006	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS ⁷	7.00
16B	UU	E006	Selenium, total	mg/L	--	--	--	--	NS ⁷	0.001
16B	UU	E006	Sulfate, total	mg/L	--	--	--	--	NS ⁷	338
16B	UU	E006	Thallium, total	mg/L	--	--	--	--	NS ⁷	0.002
16B	UU	E006	Total Dissolved Solids	mg/L	--	--	--	--	NS ⁷	1,080
16A	BCU	E006	Antimony, total	mg/L	04/01/21 - 07/31/24	13	92	CB around T-S line	0.001	0.00500
16A	BCU	E006	Arsenic, total	mg/L	04/01/21 - 07/31/24	13	0	CI around geomean	0.00127	0.001
16A	BCU	E006	Barium, total	mg/L	04/01/21 - 07/31/24	13	0	CI around mean	0.258	0.0820
16A	BCU	E006	Beryllium, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.001	0.001
16A	BCU	E006	Boron, total	mg/L	04/01/21 - 07/31/24	13	0	CI around mean	0.69	0.430
16A	BCU	E006	Cadmium, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.0005	0.001
16A	BCU	E006	Chloride, total	mg/L	04/01/21 - 07/31/24	13	0	CI around mean	124	20.4

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
16A	BCU	E006	Chromium, total	mg/L	04/01/21 - 07/31/24	13	77	CB around T-S line	0.0015	0.00400
16A	BCU	E006	Cobalt, total	mg/L	04/01/21 - 07/31/24	13	77	CI around median	0.001	0.0900
16A	BCU	E006	Fluoride, total	mg/L	04/01/21 - 07/31/24	13	8	CI around mean	0.682	0.430
16A	BCU	E006	Lead, total	mg/L	04/01/21 - 07/31/24	13	77	CI around median	0.001	0.001
16A	BCU	E006	Lithium, total	mg/L	04/01/21 - 07/31/24	13	0	CB around linear reg	0.0315	0.0300
16A	BCU	E006	Mercury, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.0002	0.0002
16A	BCU	E006	Molybdenum, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.005	0.00400
16A	BCU	E006	pH (field)	SU	04/01/21 - 07/31/24	18	0	CI around mean	7.2/7.5	6.3/7.8
16A	BCU	E006	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 07/31/24	12	0	CI around mean	0.59	7.00
16A	BCU	E006	Selenium, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.0025	0.001
16A	BCU	E006	Sulfate, total	mg/L	04/01/21 - 07/31/24	18	5	CB around linear reg	-18	338
16A	BCU	E006	Thallium, total	mg/L	04/01/21 - 07/31/24	13	100	All ND - Last	0.002	0.002
16A	BCU	E006	Total Dissolved Solids	mg/L	04/01/21 - 07/31/24	18	0	CI around mean	648	1,080
35S	UU	E006	Antimony, total	mg/L	--	--	--	--	NS ⁷	0.00500
35S	UU	E006	Arsenic, total	mg/L	--	--	--	--	NS ⁷	0.001
35S	UU	E006	Barium, total	mg/L	--	--	--	--	NS ⁷	0.0820
35S	UU	E006	Beryllium, total	mg/L	--	--	--	--	NS ⁷	0.001
35S	UU	E006	Boron, total	mg/L	--	--	--	--	NS ⁷	0.430
35S	UU	E006	Cadmium, total	mg/L	--	--	--	--	NS ⁷	0.001
35S	UU	E006	Chloride, total	mg/L	--	--	--	--	NS ⁷	20.4
35S	UU	E006	Chromium, total	mg/L	--	--	--	--	NS ⁷	0.00400
35S	UU	E006	Cobalt, total	mg/L	--	--	--	--	NS ⁷	0.0900
35S	UU	E006	Fluoride, total	mg/L	--	--	--	--	NS ⁷	0.430
35S	UU	E006	Lead, total	mg/L	--	--	--	--	NS ⁷	0.001
35S	UU	E006	Lithium, total	mg/L	--	--	--	--	NS ⁷	0.0300
35S	UU	E006	Mercury, total	mg/L	--	--	--	--	NS ⁷	0.0002
35S	UU	E006	Molybdenum, total	mg/L	--	--	--	--	NS ⁷	0.00400

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
35S	UU	E006	pH (field)	SU	--	--	--	--	NS ⁷	6.3/7.8
35S	UU	E006	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS ⁷	7.00
35S	UU	E006	Selenium, total	mg/L	--	--	--	--	NS ⁷	0.001
35S	UU	E006	Sulfate, total	mg/L	--	--	--	--	NS ⁷	338
35S	UU	E006	Thallium, total	mg/L	--	--	--	--	NS ⁷	0.002
35S	UU	E006	Total Dissolved Solids	mg/L	--	--	--	--	NS ⁷	1,080
35D	BCU	E006	Antimony, total	mg/L	04/01/21 - 07/31/24	14	79	CI around median	0.001	0.00500
35D	BCU	E006	Arsenic, total	mg/L	04/01/21 - 07/31/24	14	14	CI around mean	0.00198	0.001
35D	BCU	E006	Barium, total	mg/L	04/01/21 - 07/31/24	14	0	CB around T-S line	-0.0936	0.0820
35D	BCU	E006	Beryllium, total	mg/L	04/01/21 - 07/31/24	14	100	All ND - Last	0.001	0.001
35D	BCU	E006	Boron, total	mg/L	04/01/21 - 07/31/24	14	0	CI around mean	1.69	0.430
35D	BCU	E006	Cadmium, total	mg/L	04/01/21 - 07/31/24	14	100	All ND - Last	0.0005	0.001
35D	BCU	E006	Chloride, total	mg/L	04/01/21 - 07/31/24	14	0	CI around mean	320	20.4
35D	BCU	E006	Chromium, total	mg/L	04/01/21 - 07/31/24	14	79	CB around T-S line	0.0015	0.00400
35D	BCU	E006	Cobalt, total	mg/L	04/01/21 - 07/31/24	14	50	CB around linear reg	-0.00064	0.0900
35D	BCU	E006	Fluoride, total	mg/L	04/01/21 - 07/31/24	14	7	CI around median	0.65	0.430
35D	BCU	E006	Lead, total	mg/L	04/01/21 - 07/31/24	14	57	CI around median	0.0005	0.001
35D	BCU	E006	Lithium, total	mg/L	04/01/21 - 07/31/24	14	0	CI around mean	0.117	0.0300
35D	BCU	E006	Mercury, total	mg/L	04/01/21 - 07/31/24	14	100	All ND - Last	0.0002	0.0002
35D	BCU	E006	Molybdenum, total	mg/L	04/01/21 - 07/31/24	14	36	CB around linear reg	-0.00122	0.00400
35D	BCU	E006	pH (field)	SU	04/01/21 - 07/31/24	18	0	CI around median	7.3/7.4	6.3/7.8
35D	BCU	E006	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 07/31/24	13	0	CI around mean	0.428	7.00
35D	BCU	E006	Selenium, total	mg/L	04/01/21 - 07/31/24	14	100	All ND - Last	0.0025	0.001
35D	BCU	E006	Sulfate, total	mg/L	04/01/21 - 07/31/24	19	0	CI around mean	1,140	338
35D	BCU	E006	Thallium, total	mg/L	04/01/21 - 07/31/24	14	100	All ND - Last	0.002	0.002
35D	BCU	E006	Total Dissolved Solids	mg/L	04/01/21 - 07/31/24	19	0	CI around mean	2,790	1,080
70S	UU	E006	Antimony, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.003	0.00500

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
70D	BCU	E006	Cobalt, total	mg/L	04/01/21 - 07/30/24	14	7	CB around linear reg	-0.0302	0.0900
70D	BCU	E006	Fluoride, total	mg/L	04/01/21 - 07/30/24	14	7	CI around mean	0.41	0.430
70D	BCU	E006	Lead, total	mg/L	04/01/21 - 07/30/24	14	14	CB around linear reg	-0.0226	0.001
70D	BCU	E006	Lithium, total	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	0.0803	0.0300
70D	BCU	E006	Mercury, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.0002	0.0002
70D	BCU	E006	Molybdenum, total	mg/L	04/01/21 - 07/30/24	14	43	CB around linear reg	-0.0158	0.00400
70D	BCU	E006	pH (field)	SU	04/01/21 - 07/30/24	14	0	CI around mean	6.9/7.2	6.3/7.8
70D	BCU	E006	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 07/30/24	13	0	CI around geomean	1.29	7.00
70D	BCU	E006	Selenium, total	mg/L	04/01/21 - 07/30/24	14	86	CI around median	0.001	0.001
70D	BCU	E006	Sulfate, total	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	45.7	338
70D	BCU	E006	Thallium, total	mg/L	04/01/21 - 07/30/24	14	100	All ND - Last	0.002	0.002
70D	BCU	E006	Total Dissolved Solids	mg/L	04/01/21 - 07/30/24	14	0	CI around mean	1,370	1,080
71S	UU	E006	Antimony, total	mg/L	04/01/21 - 07/30/24	9	100	All ND - Last	0.003	0.00500
71S	UU	E006	Arsenic, total	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	0.00244	0.001
71S	UU	E006	Barium, total	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	0.0428	0.0820
71S	UU	E006	Beryllium, total	mg/L	04/01/21 - 07/30/24	9	100	All ND - Last	0.001	0.001
71S	UU	E006	Boron, total	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	0.192	0.430
71S	UU	E006	Cadmium, total	mg/L	04/01/21 - 07/30/24	9	89	CI around median	0.001	0.001
71S	UU	E006	Chloride, total	mg/L	04/01/21 - 07/30/24	9	0	CI around geomean	1.75	20.4
71S	UU	E006	Chromium, total	mg/L	04/01/21 - 07/30/24	9	89	CI around median	0.0015	0.00400
71S	UU	E006	Cobalt, total	mg/L	04/01/21 - 07/30/24	9	56	CI around median	0.001	0.0900
71S	UU	E006	Fluoride, total	mg/L	04/01/21 - 07/30/24	9	0	CB around linear reg	0.183	0.430
71S	UU	E006	Lead, total	mg/L	04/01/21 - 07/30/24	9	89	CI around median	0.001	0.001
71S	UU	E006	Lithium, total	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	0.00454	0.0300
71S	UU	E006	Mercury, total	mg/L	04/01/21 - 07/30/24	9	100	All ND - Last	0.0002	0.0002
71S	UU	E006	Molybdenum, total	mg/L	04/01/21 - 07/30/24	9	11	CI around mean	0.00228	0.00400
71S	UU	E006	pH (field)	SU	04/01/21 - 07/30/24	9	0	CI around mean	6.7/6.9	6.3/7.8

ATTACHMENT C.
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VERMILION POWER PLANT
NEW EAST ASH POND
OAKWOOD, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
71S	UU	E006	Radium 226 + Radium 228, total	pCi/L	04/01/21 - 07/30/24	9	0	CI around mean	0.217	7.00
71S	UU	E006	Selenium, total	mg/L	04/01/21 - 07/30/24	9	89	CI around median	0.001	0.001
71S	UU	E006	Sulfate, total	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	55.9	338
71S	UU	E006	Thallium, total	mg/L	04/01/21 - 07/30/24	9	89	CI around median	0.002	0.002
71S	UU	E006	Total Dissolved Solids	mg/L	04/01/21 - 07/30/24	9	0	CI around mean	479	1,080
71D	BCU	E006	Antimony, total	mg/L	04/01/21 - 08/01/24	7	71	CI around median	0.001	0.00500
71D	BCU	E006	Arsenic, total	mg/L	04/01/21 - 08/01/24	7	57	CI around median	0.001	0.001
71D	BCU	E006	Barium, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	0.162	0.0820
71D	BCU	E006	Beryllium, total	mg/L	04/01/21 - 08/01/24	7	86	CI around median	0.0005	0.001
71D	BCU	E006	Boron, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	0.683	0.430
71D	BCU	E006	Cadmium, total	mg/L	04/01/21 - 08/01/24	7	100	All ND - Last	0.0005	0.001
71D	BCU	E006	Chloride, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	310	20.4
71D	BCU	E006	Chromium, total	mg/L	04/01/21 - 08/01/24	7	43	CI around median	0.0028	0.00400
71D	BCU	E006	Cobalt, total	mg/L	04/01/21 - 08/01/24	7	43	CI around geomean	0.000539	0.0900
71D	BCU	E006	Fluoride, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	0.442	0.430
71D	BCU	E006	Lead, total	mg/L	04/01/21 - 08/01/24	7	14	CI around geomean	0.000754	0.001
71D	BCU	E006	Lithium, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	0.0405	0.0300
71D	BCU	E006	Mercury, total	mg/L	04/01/21 - 08/01/24	7	100	All ND - Last	0.0005	0.0002
71D	BCU	E006	Molybdenum, total	mg/L	04/01/21 - 08/01/24	7	43	CI around mean	0.00308	0.00400
71D	BCU	E006	pH (field)	SU	04/01/21 - 08/01/24	7	0	CI around mean	6.8/7.4	6.3/7.8
71D	BCU	E006	Radium 226 + Radium 228, total	pCi/L	--	--	--	--	NS ⁷	7.00
71D	BCU	E006	Selenium, total	mg/L	04/01/21 - 08/01/24	7	86	CI around median	0.001	0.001
71D	BCU	E006	Sulfate, total	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	39.8	338
71D	BCU	E006	Thallium, total	mg/L	04/01/21 - 08/01/24	7	100	All ND - Last	0.002	0.002
71D	BCU	E006	Total Dissolved Solids	mg/L	04/01/21 - 08/01/24	7	0	CI around mean	1,030	1,080

Notes:

- = no data available

Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value

HSU = hydrostratigraphic unit:

BCU = Bedrock Confining Unit

UU = Upper Unit

mg/L = milligrams per liter

Missing Code (if applicable):

NR¹ = Select parameters were not analyzed.

NS¹ = This well has been, or will be, abandoned; therefore, a sample was not collected.

NS² = Well either needs or was undergoing maintenance, therefore, a sample was not collected.

NS³ = A sample was not collected because the location was inaccessible.

NS⁴ = The location could not be found, therefore a sample was not collected.

NS⁵ = A sample was not collected because of damage to the well.

NS⁶ = A sample was not collected because of pump issues.

NS⁷ = A sample was not collected because the well was either dry or was purged dry and did not recover.

PM¹ = Select parameters were not analyzed as the well purged dry during sample collection and did not sufficiently recover to sample for all parameters.

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

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