Prepared for
Dynegy Midwest Generation, LLC

Date
January 31, 2025

Project No.
1940106781-008

2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

EAST ASH POND

HENNEPIN POWER PLANT

HENNEPIN, ILLINOIS

CCR UNIT 803

RAMBOLL Bright ideas. Sustainable change.

2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT HENNEPIN POWER PLANT EAST ASH POND

Project name	**Hennepin Power Plant East Ash Pond**
Project no.	**1940106781-008**
Recipient	**Dynegy Midwest Generation, LLC**
Document type	**Annual Groundwater Monitoring and Corrective Action Report**
Version	**FINAL**
Date	**January 31, 2025**
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Description	**Annual Report required by 40 C.F.R. § 257.90(e)**

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ACRONYMS AND ABBREVIATIONS

35 I.A.C.	Title 35 of the Illinois Administrative Code
40 C.F.R.	Title 40 of the Code of Federal Regulations
A6D	Quarter 3, 2023 Assessment Monitoring sampling event
A6DR	Quarter 4, 2023 Assessment Monitoring resampling event
A7	Quarter 1, 2024 Assessment Monitoring sampling event
A7R	Quarter 2, 2024 Assessment Monitoring resampling event
A7D	Quarter 3, 2024 Assessment Monitoring sampling event
A7DR	Quarter 4, 2024 Assessment Monitoring resampling event
ASD	Alternative Source Demonstration
CCR	coal combustion residuals
CMA	Corrective Measures Assessment
EAP	East Ash Pond
GWPS	groundwater protection standard
HPP	Hennepin Power Plant
IEPA	Illinois Environmental Protection Agency
NA	not applicable
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SSI	statistically significant increase
SSL	statistically significant level
TBD	to be determined

EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 40 of the Code of Federal Regulations (40 C.F.R.) § 257.90(e) for the East Ash Pond (EAP) located at the Hennepin Power Plant (HPP) near Hennepin, Illinois.

Groundwater is being monitored at the EAP in accordance with the Assessment Monitoring Program requirements specified in 40 C.F.R. § 257.95. Assessment monitoring was initiated at the EAP on April 9, 2018.

No changes were made to the monitoring system in 2024 (no wells were installed or decommissioned).

Since no statistically significant level (SSLs) of 40 C.F.R. § 257 Appendix IV parameters over groundwater protection standards (GWPSs) were determined in 2024, a Corrective Measures Assessment (CMA) is not required. Statistically significant increases (SSIs) of Appendix III parameters above background values were determined; therefore, the AP remains in the Assessment Monitoring Program.

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of Dynegy Midwest Generation, LLC, to provide the information required by 40 C.F.R. § 257.90(e) for the EAP located at the HPP near Hennepin, Illinois.

In accordance with 40 C.F.R. § 257.90(e), the owner or operator of a coal combustion residuals (CCR) unit must prepare an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year that documents the status of the Groundwater Monitoring and Corrective Action Program for the CCR unit (**Section 2**), summarizes key actions completed (**Section 3**), describes any problems encountered and actions to resolve the problems (**Section 4**), and projects key activities for the upcoming year (**Section 5**). At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit (**Figure 1**).
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken (**Section 3**, paragraph 1).
3. In addition to all the monitoring data obtained under § 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the Detection Monitoring or Assessment Monitoring Programs (**Section 3**, **Table A**).
4. A narrative discussion of any transition between monitoring programs (*e.g.*, the date and circumstances for transitioning from Detection Monitoring to Assessment Monitoring in addition to identifying the constituent(s) detected at a statistically significant increase relative to background levels) (**Section 2**).
5. Other information required to be included in the annual report as specified in § 257.90 through 257.98.
6. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit (see **Executive Summary**). At a minimum, the summary must specify all of the following:
    i. At the start of the current annual reporting period, whether the CCR unit was operating under the Detection Monitoring Program in § 257.94 or the Assessment Monitoring Program in § 257.95.
    ii. At the end of the current annual reporting period, whether the CCR unit was operating under the Detection Monitoring Program in § 257.94 or the Assessment Monitoring Program in § 257.95.
    iii. If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III of § 257 pursuant to § 257.94(e):
        A. Identify those constituents listed in Appendix III of § 257 and the names of the monitoring wells associated with such an increase.

B. Provide the date when the Assessment Monitoring Program was initiated for the CCR unit.

iv. If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in Appendix IV of § 257 pursuant to § 257.95(g) include all of the following:

A. Identify those constituents listed in Appendix IV of § 257 and the names of the monitoring wells associated with such an increase.

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

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

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

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

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

This report provides the required information for the EAP for calendar year 2024.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

No changes have occurred to the monitoring program status in calendar year 2024 and the EAP remains in the Assessment Monitoring Program in accordance with 40 C.F.R. § 257.95.

3. KEY ACTIONS COMPLETED IN 2024

A summary of the samples collected from background and compliance monitoring wells in 2024 under the Assessment Monitoring Program is included in **Table A** on the following page. The groundwater monitoring system, including the CCR unit and all background and compliance monitoring wells, is presented in **Figure 1**. No wells were installed or decommissioned in 2024.

One groundwater sample was collected from each background and compliance well during each monitoring event. The EAP is also regulated under Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845, which requires quarterly monitoring. The groundwater monitoring systems for both programs (35 I.A.C. § 845 and 40 C.F.R. § 257) are identical, so all available data from the four quarterly monitoring events in 2024 are included in this report. All samples were collected and analyzed in accordance with the Multi-Site Sampling and Analysis Plan (SAP) (Ramboll, 2023). Data collected in accordance with 35 I.A.C. § 845 was included for statistical calculations performed in accordance with 40 C.F.R. § 257.93; however, SSLs are reported semiannually per 40 C.F.R. § 257.95(d)(1).

Potentiometric surfaces for the quarterly sampling events are included in **Figures 2 through 5**[1]. All monitoring data and analytical results obtained under 40 C.F.R. § 257.90 through 257.98 and 35 I.A.C. § 845 in 2024 are presented in **Tables 1 through 3**. All associated laboratory reports and field data sheets are included in **Appendix A**.

Analytical data were evaluated in accordance with the Multi-Site Statistical Analysis Plan (Ramboll, 2022b), the Multi-Site Quality Assurance Project Plan (Ramboll, 2022c), and the Multi-Site Data Management Plan (Ramboll, 2022d) to determine any SSLs of Appendix IV parameters over GWPSs and SSIs of Appendix III parameters greater than background values. SSL notifications were completed in accordance with 40 C.F.R. § 257.95(g). SSIs are highlighted in **Table 2**. Statistical background values are provided in **Table 4** and a flow chart showing the statistical methodology for determination of background values is included as **Appendix B**. GWPSs are provided in **Table 5**. A summary of the determination of SSLs in included in **Table 6**. A flow chart showing the statistical methodology for determination of SSLs is included as **Appendix C**.

[1] During the October 2024 sampling event, groundwater elevation data at monitoring well 12 was not recorded because the water level was below the top of the pump.

Table A. 2024 Assessment Monitoring Program Summary

Event ID	Sampling Dates [1, 2, 3]	Analytical Data Receipt Date [4]	SSL(s) Determination Date	SSL(s)	ASD Completion Date
A6D	August 23 - 28, 2023	November 16, 2023	February 14, 2024 [5]	None	NA
A6DR	November 17 and 20, 2023	January 4, 2024 [6]	NA	None	NA
A7	January 24 - 26, 2024	February 22, 2024	May 22, 2024	None	NA
A7R	April 15 - 16, 2024	May 20, 2024	NA	None	NA
A7D	July 15 - 16, and August 6, 2024	September 6, 2024	December 5, 2024	None	NA
A7DR [7]	October 7 - 10, 2024	November 11, 2024	NA	None	NA

Notes:

ASD: Alternative Source Demonstration

NA: not applicable

SSL: Statistically Significant Level

[1] All samples were analyzed for Appendix III parameters listed in 40 C.F.R. § 257.94(e) and Appendix IV parameters listed in 40 C.F.R. § 257.95(g).

[2] The following background wells were sampled for each event: 07, 08, 08D, 16, and 17

[3] The following compliance wells were sampled for each event: 12, 13, 46, 47, 52, and 54

[4] Data collected in accordance with 35 I.A.C. § 845 was included for statistical calculations performed in accordance with 40 C.F.R. § 257.95(d)(1); however, SSLs are reported semiannually per 40 C.F.R. § 257.

[5] Statistical determinations were completed in 2024. Analytical data from 2023 sampling events used in statistical determinations are included in the 2024 Annual Groundwater Monitoring and Corrective Action Report for completeness.

[6] Analytical data was received after December 31, 2023 and is reported in the 2024 Annual Groundwater Monitoring and Corrective Action Report.

[7] During the October 2024 sampling event, groundwater elevation data at monitoring well 12 was not recorded because the water level was below the top of the pump.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the groundwater monitoring program during 2024. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2025

The following key activities are planned for 2025:

- Continuation of the Assessment Monitoring Program with semiannual sampling for reporting purposes scheduled for the first and third quarters of 2025 (and sampling for 35 I.A.C. § 845 scheduled for the second and fourth quarters).
- Complete evaluation of analytical data from the compliance wells to determine whether an SSL of Appendix IV parameters above GWPSs has occurred.
- If an SSL is identified, potential alternative sources (*i.e.,* a source other than the CCR unit caused the SSL or that the SSL resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
  - If an alternative source is identified to be the cause of the SSL, a written demonstration will be completed within 90 days of SSL determination and included in the 2025 Annual Groundwater Monitoring and Corrective Action Report.
  - If an alternative source(s) is not identified to be the cause of the SSL, the applicable requirements of 40 C.F.R. § 257.94 through 257.98 (*e.g.,* assessment of corrective measures) as may apply in 2025 will be met, including associated recordkeeping/notifications required by 40 C.F.R. § 257.105 through 257.108.

6. REFERENCES

Code of Federal Regulations, Title 40, Chapter I, Subchapter I, Part 257, Subpart D, Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, effective April 17, 2015. Accessed from URL https://www.ecfr.gov/current/title-40/chapter-I/subchapter-I/part-257/subpart-D#page-top

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022a. 40 C.F.R. § 257 Groundwater Monitoring Plan, East Ash Pond, Hennepin Power Plant, Hennepin, Illinois. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022b. Multi-Site Statistical Analysis Plan, 40 C.F.R. § 257. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022c. Multi-Site Quality Assurance Project Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022d. Multi-Site Data Management Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023. Multi-Site Sampling and Analysis Plan, Revision 1. October 10, 2023.

TABLES

TABLE 1
GROUNDWATER ELEVATION DATA
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
07	Background	UA	01/22/2024	68.78	449.49
07	Background	UA	02/15/2024	66.77	451.49
07	Background	UA	03/15/2024	67.77	450.49
07	Background	UA	04/15/2024	66.81	451.46
07	Background	UA	05/15/2024	66.14	452.13
07	Background	UA	06/15/2024	67.10	451.17
07	Background	UA	07/15/2024	67.77	450.50
07	Background	UA	08/07/2024	68.21	450.58
07	Background	UA	09/07/2024	69.01	449.78
07	Background	UA	10/07/2024	69.10	449.69
07	Background	UA	11/19/2024	68.80	449.99
07	Background	UA	12/19/2024	69.40	449.39
08	Background	UA	01/22/2024	53.82	447.36
08	Background	UA	02/15/2024	51.67	449.50
08	Background	UA	03/15/2024	53.02	448.15
08	Background	UA	04/15/2024	51.12	450.06
08	Background	UA	05/15/2024	51.22	449.96
08	Background	UA	06/15/2024	52.53	448.65
08	Background	UA	07/15/2024	53.25	447.93
08	Background	UA	08/07/2024	53.82	447.68
08	Background	UA	09/07/2024	54.63	446.87
08	Background	UA	10/07/2024	54.71	446.80
08	Background	UA	11/19/2024	54.17	447.33
08	Background	UA	12/19/2024	55.11	446.40
08D	Background	UA	01/22/2024	54.20	447.21
08D	Background	UA	02/15/2024	DM[7]	
08D	Background	UA	03/15/2024	53.63	447.77
08D	Background	UA	04/15/2024	51.58	449.83
08D	Background	UA	05/15/2024	51.90	449.51
08D	Background	UA	06/15/2024	53.25	448.16
08D	Background	UA	07/15/2024	54.24	447.17
08D	Background	UA	08/07/2024	54.63	447.13
08D	Background	UA	09/07/2024	55.40	446.36
08D	Background	UA	10/07/2024	55.12	446.65
08D	Background	UA	11/19/2024	54.92	446.84
08D	Background	UA	12/19/2024	55.61	446.16
12	Compliance	UA	01/22/2024	51.34	447.27
12	Compliance	UA	02/15/2024	49.47	449.13
12	Compliance	UA	03/15/2024	50.70	447.90
12	Compliance	UA	04/15/2024	48.75	449.86
12	Compliance	UA	05/15/2024	48.97	449.64
12	Compliance	UA	06/15/2024	50.33	448.28
12	Compliance	UA	07/15/2024	51.41	447.20
12	Compliance	UA	08/07/2024	51.66	447.27
12	Compliance	UA	09/07/2024	52.42	446.51
12	Compliance	UA	10/07/2024	DM[4]	

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HENNEPIN POWER PLANT
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HENNEPIN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
12	Compliance	UA	11/19/2024	51.95	446.98
12	Compliance	UA	12/19/2024	52.77	446.17
13	Compliance	UA	01/22/2024	51.36	447.28
13	Compliance	UA	02/15/2024	DM[7]	
13	Compliance	UA	03/15/2024	DM[7]	
13	Compliance	UA	04/15/2024	48.72	449.92
13	Compliance	UA	05/15/2024	49.04	449.60
13	Compliance	UA	06/15/2024	50.39	448.25
13	Compliance	UA	07/15/2024	51.36	447.28
13	Compliance	UA	08/07/2024	51.43	447.50
13	Compliance	UA	09/07/2024	52.19	446.74
13	Compliance	UA	10/07/2024	52.22	446.72
13	Compliance	UA	11/19/2024	51.74	447.19
13	Compliance	UA	12/19/2024	52.76	446.18
16	Background	UA	01/22/2024	54.38	447.13
16	Background	UA	02/15/2024	52.54	448.96
16	Background	UA	03/15/2024	53.75	447.75
16	Background	UA	04/15/2024	51.76	449.75
16	Background	UA	05/15/2024	52.01	449.50
16	Background	UA	06/15/2024	53.35	448.16
16	Background	UA	07/15/2024	54.42	447.09
16	Background	UA	08/07/2024	54.83	447.12
16	Background	UA	09/07/2024	55.59	446.35
16	Background	UA	10/07/2024	55.28	446.67
16	Background	UA	11/19/2024	55.12	446.82
16	Background	UA	12/19/2024	55.79	446.16
17	Background	UA	01/22/2024	58.98	448.32
17	Background	UA	02/15/2024	57.03	450.26
17	Background	UA	03/15/2024	57.33	449.96
17	Background	UA	04/15/2024	55.09	452.21
17	Background	UA	05/15/2024	54.75	452.55
17	Background	UA	06/15/2024	54.69	452.61
17	Background	UA	07/15/2024	56.61	450.69
17	Background	UA	08/07/2024	56.26	451.56
17	Background	UA	10/07/2024	56.83	451.00
17	Background	UA	12/19/2024	60.07	447.76
46	Compliance	UA	01/22/2024	51.58	447.34
46	Compliance	UA	02/15/2024	49.88	449.03
46	Compliance	UA	03/15/2024	51.11	447.80
46	Compliance	UA	04/15/2024	48.95	449.97
46	Compliance	UA	05/15/2024	49.71	449.21
46	Compliance	UA	06/15/2024	51.04	447.88
46	Compliance	UA	07/15/2024	51.62	447.30
46	Compliance	UA	08/07/2024	51.98	447.20
46	Compliance	UA	09/07/2024	52.72	446.46
46	Compliance	UA	10/07/2024	52.22	446.97

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HENNEPIN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
46	Compliance	UA	11/19/2024	51.97	447.22
46	Compliance	UA	12/19/2024	53.01	446.18
47	Compliance	UA	01/22/2024	55.84	446.98
47	Compliance	UA	02/15/2024	53.89	448.92
47	Compliance	UA	03/15/2024	55.13	447.68
47	Compliance	UA	04/15/2024	53.22	449.60
47	Compliance	UA	05/15/2024	53.38	449.44
47	Compliance	UA	06/15/2024	54.74	448.08
47	Compliance	UA	07/15/2024	55.87	446.95
47	Compliance	UA	08/07/2024	56.25	447.11
47	Compliance	UA	09/07/2024	57.01	446.35
47	Compliance	UA	10/07/2024	56.71	446.66
47	Compliance	UA	11/19/2024	56.51	446.85
47	Compliance	UA	12/19/2024	57.22	446.15
52	Compliance	UA	01/22/2024	53.98	447.12
52	Compliance	UA	02/15/2024	52.09	449.00
52	Compliance	UA	03/15/2024	53.32	447.77
52	Compliance	UA	04/15/2024	51.33	449.77
52	Compliance	UA	05/15/2024	51.59	449.51
52	Compliance	UA	06/15/2024	52.95	448.15
52	Compliance	UA	07/15/2024	60.98	440.12
52	Compliance	UA	08/07/2024	54.36	447.14
52	Compliance	UA	09/07/2024	55.13	446.37
52	Compliance	UA	10/07/2024	54.88	446.62
52	Compliance	UA	11/19/2024	54.63	446.86
52	Compliance	UA	12/19/2024	55.37	446.13
54	Compliance	UA	01/22/2024	53.92	446.45
54	Compliance	UA	02/15/2024	51.38	448.98
54	Compliance	UA	03/15/2024	52.62	447.74
54	Compliance	UA	04/15/2024	50.63	449.74
54	Compliance	UA	05/15/2024	50.88	449.49
54	Compliance	UA	06/15/2024	52.23	448.14
54	Compliance	UA	07/15/2024	53.32	447.05
54	Compliance	UA	08/07/2024	53.65	447.12
54	Compliance	UA	09/07/2024	54.42	446.35
54	Compliance	UA	10/07/2024	54.19	446.59
54	Compliance	UA	11/19/2024	53.94	446.84
54	Compliance	UA	12/19/2024	54.69	446.09
XSG01	Water Level	CCR	01/22/2024	10.10	483.56
XSG01	Water Level	CCR	02/15/2024	10.22	483.43
XSG01	Water Level	CCR	03/15/2024	10.14	483.51
XSG01	Water Level	CCR	04/15/2024	10.42	483.24
XSG01	Water Level	CCR	05/15/2024	10.20	483.46
XSG01	Water Level	CCR	06/15/2024	10.34	483.32
XSG01	Water Level	CCR	07/15/2024	10.14	483.52
XSG01	Water Level	CCR	08/07/2024	10.10	487.52

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HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
XSG01	Water Level	CCR	09/07/2024	10.22	487.40
XSG01	Water Level	CCR	10/07/2024	10.55	487.09
XSG01	Water Level	CCR	11/19/2024	10.59	487.04
XSG01	Water Level	CCR	12/18/2024	10.67	486.97
SG02	Water Level	SW	01/22/2024	NA	446.50
SG02	Water Level	SW	02/15/2024	NA	446.00
SG02	Water Level	SW	02/29/2024	NA	[442.00]
SG02	Water Level	SW	03/15/2024	NA	445.50
SG02	Water Level	SW	03/30/2024	NA	[443.50]
SG02	Water Level	SW	04/16/2024	NA	449.00
SG02	Water Level	SW	04/30/2024	NA	[451.00]
SG02	Water Level	SW	05/15/2024	NA	448.50
SG02	Water Level	SW	05/30/2024	NA	[444.50]
SG02	Water Level	SW	06/15/2024	NA	442.00
SG02	Water Level	SW	07/15/2024	NA	446.00
SG02	Water Level	SW	08/07/2024	NA	441.00
SG02	Water Level	SW	09/07/2024	NA	440.60
SG02	Water Level	SW	10/07/2024	NA	441.00
SG02	Water Level	SW	11/19/2024	NA	441.25
SG02	Water Level	SW	12/19/2024	NA	440.25

Notes:
BMP = below measuring point
Bracketing [ ] indicates that the measurement was obtained outside of the episodic depth to groundwater measurements time frame.
Depth to Groundwater/Groundwater Elevation Code (if applicable):
DM[1] = Depth to water was not measured.
DM[2] = Depth to water was not measured because water was above or below the staff gage markings.
DM[3] = Depth to water was not measured because the location was inaccessible.
DM[4] = Depth to water was not measured because water level was below the top of the pump.
DM[5] = Depth to water was not measured because water level was above the top of casing (artesian well).
DM[6] = Depth to water was not measured because of damage to the well.
DM[7] = Depth to water was not measured due to required pressure transducer maintenance.
DM[8] = Lab provided groundwater elevation data and not depth to water.
NA = not available/not applicable
NAVD88 = North American Vertical Datum of 1988
Monitored Unit Abbreviations:
CCR = coal combustion residuals
SW = surface water
UA = uppermost aquifer

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
07	UA	Background	08/24/2023	A6D	Boron, total	mg/L	0.0670	--	--	--
07	UA	Background	11/20/2023	A6DR	Boron, total	mg/L	0.05 UJ	--	--	--
07	UA	Background	01/26/2024	A7	Boron, total	mg/L	0.120	--	--	--
07	UA	Background	04/16/2024	A7R	Boron, total	mg/L	0.0730 J+	--	--	--
07	UA	Background	07/15/2024	A7D	Boron, total	mg/L	0.0930 J	--	--	--
07	UA	Background	10/10/2024	A7DR	Boron, total	mg/L	0.0690	--	--	--
07	UA	Background	08/24/2023	A6D	Calcium, total	mg/L	94.0	--	--	--
07	UA	Background	11/20/2023	A6DR	Calcium, total	mg/L	120	--	--	--
07	UA	Background	01/26/2024	A7	Calcium, total	mg/L	120	--	--	--
07	UA	Background	04/16/2024	A7R	Calcium, total	mg/L	120	--	--	--
07	UA	Background	07/15/2024	A7D	Calcium, total	mg/L	170	--	--	--
07	UA	Background	10/10/2024	A7DR	Calcium, total	mg/L	140	--	--	--
07	UA	Background	08/24/2023	A6D	Chloride, total	mg/L	51.0	--	--	--
07	UA	Background	11/20/2023	A6DR	Chloride, total	mg/L	86.0	--	--	--
07	UA	Background	01/26/2024	A7	Chloride, total	mg/L	56.0	--	--	--
07	UA	Background	04/16/2024	A7R	Chloride, total	mg/L	49.0	--	--	--
07	UA	Background	07/15/2024	A7D	Chloride, total	mg/L	170	--	--	--
07	UA	Background	10/10/2024	A7DR	Chloride, total	mg/L	54.0	--	--	--
07	UA	Background	08/24/2023	A6D	Fluoride, total	mg/L	0.24 J	--	--	--
07	UA	Background	11/20/2023	A6DR	Fluoride, total	mg/L	0.120	--	--	--
07	UA	Background	01/26/2024	A7	Fluoride, total	mg/L	0.120	--	--	--
07	UA	Background	04/16/2024	A7R	Fluoride, total	mg/L	0.130	--	--	--
07	UA	Background	07/15/2024	A7D	Fluoride, total	mg/L	0.120	--	--	--
07	UA	Background	10/10/2024	A7DR	Fluoride, total	mg/L	0.110	--	--	--
07	UA	Background	08/24/2023	A6D	pH (field)	SU	6.9	--	--	--
07	UA	Background	11/20/2023	A6DR	pH (field)	SU	7.0	--	--	--
07	UA	Background	01/26/2024	A7	pH (field)	SU	7.0	--	--	--
07	UA	Background	04/16/2024	A7R	pH (field)	SU	7.0	--	--	--
07	UA	Background	07/15/2024	A7D	pH (field)	SU	6.7	--	--	--
07	UA	Background	10/10/2024	A7DR	pH (field)	SU	6.8	--	--	--
07	UA	Background	08/24/2023	A6D	Sulfate, total	mg/L	67.0	--	--	--
07	UA	Background	11/20/2023	A6DR	Sulfate, total	mg/L	56.0	--	--	--
07	UA	Background	01/26/2024	A7	Sulfate, total	mg/L	59.0	--	--	--
07	UA	Background	04/16/2024	A7R	Sulfate, total	mg/L	60.0	--	--	--
07	UA	Background	07/15/2024	A7D	Sulfate, total	mg/L	63.0	--	--	--
07	UA	Background	10/10/2024	A7DR	Sulfate, total	mg/L	57.0	--	--	--
07	UA	Background	08/24/2023	A6D	Total Dissolved Solids	mg/L	640	--	--	--
07	UA	Background	11/20/2023	A6DR	Total Dissolved Solids	mg/L	690	--	--	--
07	UA	Background	01/26/2024	A7	Total Dissolved Solids	mg/L	650	--	--	--
07	UA	Background	04/16/2024	A7R	Total Dissolved Solids	mg/L	560	--	--	--
07	UA	Background	07/15/2024	A7D	Total Dissolved Solids	mg/L	1,100	--	--	--
07	UA	Background	10/10/2024	A7DR	Total Dissolved Solids	mg/L	650	--	--	--
08	UA	Background	08/24/2023	A6D	Boron, total	mg/L	0.0700	--	--	--
08	UA	Background	11/17/2023	A6DR	Boron, total	mg/L	0.0950 J+	--	--	--
08	UA	Background	01/26/2024	A7	Boron, total	mg/L	0.150	--	--	--
08	UA	Background	04/16/2024	A7R	Boron, total	mg/L	0.120 J+	--	--	--

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
08	UA	Background	07/16/2024	A7D	Boron, total	mg/L	0.0990 J+	--	--	--
08	UA	Background	10/10/2024	A7DR	Boron, total	mg/L	0.110 J+	--	--	--
08	UA	Background	08/24/2023	A6D	Calcium, total	mg/L	160	--	--	--
08	UA	Background	11/17/2023	A6DR	Calcium, total	mg/L	200	--	--	--
08	UA	Background	01/26/2024	A7	Calcium, total	mg/L	200	--	--	--
08	UA	Background	04/16/2024	A7R	Calcium, total	mg/L	170	--	--	--
08	UA	Background	07/16/2024	A7D	Calcium, total	mg/L	180	--	--	--
08	UA	Background	10/10/2024	A7DR	Calcium, total	mg/L	210	--	--	--
08	UA	Background	08/24/2023	A6D	Chloride, total	mg/L	240	--	--	--
08	UA	Background	11/17/2023	A6DR	Chloride, total	mg/L	260	--	--	--
08	UA	Background	01/26/2024	A7	Chloride, total	mg/L	250	--	--	--
08	UA	Background	04/16/2024	A7R	Chloride, total	mg/L	190	--	--	--
08	UA	Background	07/16/2024	A7D	Chloride, total	mg/L	150	--	--	--
08	UA	Background	10/10/2024	A7DR	Chloride, total	mg/L	240	--	--	--
08	UA	Background	08/24/2023	A6D	Fluoride, total	mg/L	0.19 J	--	--	--
08	UA	Background	11/17/2023	A6DR	Fluoride, total	mg/L	0.089 J	--	--	--
08	UA	Background	01/26/2024	A7	Fluoride, total	mg/L	0.083 J	--	--	--
08	UA	Background	04/16/2024	A7R	Fluoride, total	mg/L	0.093 J	--	--	--
08	UA	Background	07/16/2024	A7D	Fluoride, total	mg/L	0.110	--	--	--
08	UA	Background	10/10/2024	A7DR	Fluoride, total	mg/L	0.086 J	--	--	--
08	UA	Background	08/24/2023	A6D	pH (field)	SU	6.7	--	--	--
08	UA	Background	11/17/2023	A6DR	pH (field)	SU	6.9	--	--	--
08	UA	Background	01/26/2024	A7	pH (field)	SU	6.8	--	--	--
08	UA	Background	04/16/2024	A7R	pH (field)	SU	6.8	--	--	--
08	UA	Background	07/16/2024	A7D	pH (field)	SU	6.7	--	--	--
08	UA	Background	10/10/2024	A7DR	pH (field)	SU	6.5	--	--	--
08	UA	Background	08/24/2023	A6D	Sulfate, total	mg/L	100	--	--	--
08	UA	Background	11/17/2023	A6DR	Sulfate, total	mg/L	120	--	--	--
08	UA	Background	01/26/2024	A7	Sulfate, total	mg/L	120	--	--	--
08	UA	Background	04/16/2024	A7R	Sulfate, total	mg/L	110	--	--	--
08	UA	Background	07/16/2024	A7D	Sulfate, total	mg/L	110	--	--	--
08	UA	Background	10/10/2024	A7DR	Sulfate, total	mg/L	100	--	--	--
08	UA	Background	08/24/2023	A6D	Total Dissolved Solids	mg/L	1,100	--	--	--
08	UA	Background	11/17/2023	A6DR	Total Dissolved Solids	mg/L	1,100	--	--	--
08	UA	Background	01/26/2024	A7	Total Dissolved Solids	mg/L	1,200	--	--	--
08	UA	Background	04/16/2024	A7R	Total Dissolved Solids	mg/L	1,100	--	--	--
08	UA	Background	07/16/2024	A7D	Total Dissolved Solids	mg/L	870	--	--	--
08	UA	Background	10/10/2024	A7DR	Total Dissolved Solids	mg/L	1,100	--	--	--
08D	UA	Background	08/24/2023	A6D	Boron, total	mg/L	0.0510	--	--	--
08D	UA	Background	11/17/2023	A6DR	Boron, total	mg/L	0.0710 J+	--	--	--
08D	UA	Background	01/25/2024	A7	Boron, total	mg/L	0.120	--	--	--
08D	UA	Background	04/16/2024	A7R	Boron, total	mg/L	0.0990 J+	--	--	--
08D	UA	Background	07/16/2024	A7D	Boron, total	mg/L	0.100 J+	--	--	--
08D	UA	Background	10/08/2024	A7DR	Boron, total	mg/L	0.0930 J+	--	--	--
08D	UA	Background	08/24/2023	A6D	Calcium, total	mg/L	200	--	--	--
08D	UA	Background	11/17/2023	A6DR	Calcium, total	mg/L	180	--	--	--

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
08D	UA	Background	01/25/2024	A7	Calcium, total	mg/L	220	--	--	--
08D	UA	Background	04/16/2024	A7R	Calcium, total	mg/L	200	--	--	--
08D	UA	Background	07/16/2024	A7D	Calcium, total	mg/L	190	--	--	--
08D	UA	Background	10/08/2024	A7DR	Calcium, total	mg/L	170	--	--	--
08D	UA	Background	08/24/2023	A6D	Chloride, total	mg/L	310	--	--	--
08D	UA	Background	11/17/2023	A6DR	Chloride, total	mg/L	250	--	--	--
08D	UA	Background	01/25/2024	A7	Chloride, total	mg/L	330	--	--	--
08D	UA	Background	04/16/2024	A7R	Chloride, total	mg/L	310	--	--	--
08D	UA	Background	07/16/2024	A7D	Chloride, total	mg/L	300	--	--	--
08D	UA	Background	10/08/2024	A7DR	Chloride, total	mg/L	240	--	--	--
08D	UA	Background	08/24/2023	A6D	Fluoride, total	mg/L	0.19 U	--	--	--
08D	UA	Background	11/17/2023	A6DR	Fluoride, total	mg/L	0.097 J	--	--	--
08D	UA	Background	01/25/2024	A7	Fluoride, total	mg/L	0.09 J	--	--	--
08D	UA	Background	04/16/2024	A7R	Fluoride, total	mg/L	0.110	--	--	--
08D	UA	Background	07/16/2024	A7D	Fluoride, total	mg/L	0.110	--	--	--
08D	UA	Background	10/08/2024	A7DR	Fluoride, total	mg/L	0.100	--	--	--
08D	UA	Background	08/24/2023	A6D	pH (field)	SU	6.6	--	--	--
08D	UA	Background	11/17/2023	A6DR	pH (field)	SU	6.8	--	--	--
08D	UA	Background	01/25/2024	A7	pH (field)	SU	6.7	--	--	--
08D	UA	Background	04/16/2024	A7R	pH (field)	SU	6.7	--	--	--
08D	UA	Background	07/16/2024	A7D	pH (field)	SU	6.7	--	--	--
08D	UA	Background	10/08/2024	A7DR	pH (field)	SU	6.7	--	--	--
08D	UA	Background	08/24/2023	A6D	Sulfate, total	mg/L	170	--	--	--
08D	UA	Background	11/17/2023	A6DR	Sulfate, total	mg/L	130	--	--	--
08D	UA	Background	01/25/2024	A7	Sulfate, total	mg/L	170	--	--	--
08D	UA	Background	04/16/2024	A7R	Sulfate, total	mg/L	190	--	--	--
08D	UA	Background	07/16/2024	A7D	Sulfate, total	mg/L	170	--	--	--
08D	UA	Background	10/08/2024	A7DR	Sulfate, total	mg/L	120	--	--	--
08D	UA	Background	08/24/2023	A6D	Total Dissolved Solids	mg/L	1,400	--	--	--
08D	UA	Background	11/17/2023	A6DR	Total Dissolved Solids	mg/L	1,300	--	--	--
08D	UA	Background	01/25/2024	A7	Total Dissolved Solids	mg/L	1,500	--	--	--
08D	UA	Background	04/16/2024	A7R	Total Dissolved Solids	mg/L	1,400	--	--	--
08D	UA	Background	07/16/2024	A7D	Total Dissolved Solids	mg/L	1,300	--	--	--
08D	UA	Background	10/08/2024	A7DR	Total Dissolved Solids	mg/L	1,100	--	--	--
16	UA	Background	08/28/2023	A6D	Boron, total	mg/L	0.110	--	--	--
16	UA	Background	11/17/2023	A6DR	Boron, total	mg/L	0.0790 J+	--	--	--
16	UA	Background	01/24/2024	A7	Boron, total	mg/L	0.240	--	--	--
16	UA	Background	04/16/2024	A7R	Boron, total	mg/L	0.0840 J+	--	--	--
16	UA	Background	07/16/2024	A7D	Boron, total	mg/L	0.180 J+	--	--	--
16	UA	Background	10/09/2024	A7DR	Boron, total	mg/L	0.140 J+	--	--	--
16	UA	Background	08/28/2023	A6D	Calcium, total	mg/L	73.0	--	--	--
16	UA	Background	11/17/2023	A6DR	Calcium, total	mg/L	82.0	--	--	--
16	UA	Background	01/24/2024	A7	Calcium, total	mg/L	81.0	--	--	--
16	UA	Background	04/16/2024	A7R	Calcium, total	mg/L	73.0	--	--	--
16	UA	Background	07/16/2024	A7D	Calcium, total	mg/L	73.0	--	--	--
16	UA	Background	10/09/2024	A7DR	Calcium, total	mg/L	82.0	--	--	--

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
16	UA	Background	08/28/2023	A6D	Chloride, total	mg/L	81.0	--	--	--
16	UA	Background	11/17/2023	A6DR	Chloride, total	mg/L	79.0	--	--	--
16	UA	Background	01/24/2024	A7	Chloride, total	mg/L	89.0	--	--	--
16	UA	Background	04/16/2024	A7R	Chloride, total	mg/L	61.0	--	--	--
16	UA	Background	07/16/2024	A7D	Chloride, total	mg/L	70.0	--	--	--
16	UA	Background	10/09/2024	A7DR	Chloride, total	mg/L	70.0	--	--	--
16	UA	Background	08/28/2023	A6D	Fluoride, total	mg/L	0.31 J	--	--	--
16	UA	Background	11/17/2023	A6DR	Fluoride, total	mg/L	0.220	--	--	--
16	UA	Background	01/24/2024	A7	Fluoride, total	mg/L	0.230	--	--	--
16	UA	Background	04/16/2024	A7R	Fluoride, total	mg/L	0.240	--	--	--
16	UA	Background	07/16/2024	A7D	Fluoride, total	mg/L	0.270	--	--	--
16	UA	Background	10/09/2024	A7DR	Fluoride, total	mg/L	0.210	--	--	--
16	UA	Background	08/28/2023	A6D	pH (field)	SU	7.2	--	--	--
16	UA	Background	11/17/2023	A6DR	pH (field)	SU	7.3	--	--	--
16	UA	Background	01/24/2024	A7	pH (field)	SU	7.3	--	--	--
16	UA	Background	04/16/2024	A7R	pH (field)	SU	7.4	--	--	--
16	UA	Background	07/16/2024	A7D	pH (field)	SU	7.3	--	--	--
16	UA	Background	10/09/2024	A7DR	pH (field)	SU	7.0	--	--	--
16	UA	Background	08/28/2023	A6D	Sulfate, total	mg/L	56.0	--	--	--
16	UA	Background	11/17/2023	A6DR	Sulfate, total	mg/L	64.0	--	--	--
16	UA	Background	01/24/2024	A7	Sulfate, total	mg/L	76.0	--	--	--
16	UA	Background	04/16/2024	A7R	Sulfate, total	mg/L	51.0	--	--	--
16	UA	Background	07/16/2024	A7D	Sulfate, total	mg/L	59.0	--	--	--
16	UA	Background	10/09/2024	A7DR	Sulfate, total	mg/L	62.0	--	--	--
16	UA	Background	08/28/2023	A6D	Total Dissolved Solids	mg/L	450	--	--	--
16	UA	Background	11/17/2023	A6DR	Total Dissolved Solids	mg/L	420	--	--	--
16	UA	Background	01/24/2024	A7	Total Dissolved Solids	mg/L	500	--	--	--
16	UA	Background	04/16/2024	A7R	Total Dissolved Solids	mg/L	420	--	--	--
16	UA	Background	07/16/2024	A7D	Total Dissolved Solids	mg/L	450	--	--	--
16	UA	Background	10/09/2024	A7DR	Total Dissolved Solids	mg/L	460	--	--	--
17	UA	Background	08/28/2023	A6D	Boron, total	mg/L	0.0760	--	--	--
17	UA	Background	11/17/2023	A6DR	Boron, total	mg/L	0.110 J+	--	--	--
17	UA	Background	01/24/2024	A7	Boron, total	mg/L	0.140	--	--	--
17	UA	Background	04/16/2024	A7R	Boron, total	mg/L	0.0870 J+	--	--	--
17	UA	Background	08/06/2024	A7D	Boron, total	mg/L	0.110 J+	--	--	--
17	UA	Background	10/09/2024	A7DR	Boron, total	mg/L	0.130 J+	--	--	--
17	UA	Background	08/28/2023	A6D	Calcium, total	mg/L	58.0	--	--	--
17	UA	Background	11/17/2023	A6DR	Calcium, total	mg/L	74.0	--	--	--
17	UA	Background	01/24/2024	A7	Calcium, total	mg/L	120	--	--	--
17	UA	Background	04/16/2024	A7R	Calcium, total	mg/L	68.0	--	--	--
17	UA	Background	08/06/2024	A7D	Calcium, total	mg/L	65.0	--	--	--
17	UA	Background	10/09/2024	A7DR	Calcium, total	mg/L	74.0	--	--	--
17	UA	Background	08/28/2023	A6D	Chloride, total	mg/L	80.0	--	--	--
17	UA	Background	11/17/2023	A6DR	Chloride, total	mg/L	90.0	--	--	--
17	UA	Background	01/24/2024	A7	Chloride, total	mg/L	93.0	--	--	--
17	UA	Background	04/16/2024	A7R	Chloride, total	mg/L	59.0	--	--	--

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
17	UA	Background	08/06/2024	A7D	Chloride, total	mg/L	68.0	--	--	--
17	UA	Background	10/09/2024	A7DR	Chloride, total	mg/L	89.0	--	--	--
17	UA	Background	08/28/2023	A6D	Fluoride, total	mg/L	0.36 J	--	--	--
17	UA	Background	11/17/2023	A6DR	Fluoride, total	mg/L	0.210	--	--	--
17	UA	Background	01/24/2024	A7	Fluoride, total	mg/L	0.150	--	--	--
17	UA	Background	04/16/2024	A7R	Fluoride, total	mg/L	0.180	--	--	--
17	UA	Background	08/06/2024	A7D	Fluoride, total	mg/L	0.270	--	--	--
17	UA	Background	10/09/2024	A7DR	Fluoride, total	mg/L	0.230	--	--	--
17	UA	Background	08/28/2023	A6D	pH (field)	SU	7.3	--	--	--
17	UA	Background	11/17/2023	A6DR	pH (field)	SU	7.3	--	--	--
17	UA	Background	01/24/2024	A7	pH (field)	SU	7.0	--	--	--
17	UA	Background	04/16/2024	A7R	pH (field)	SU	7.3	--	--	--
17	UA	Background	08/06/2024	A7D	pH (field)	SU	7.2	--	--	--
17	UA	Background	10/09/2024	A7DR	pH (field)	SU	7.0	--	--	--
17	UA	Background	08/28/2023	A6D	Sulfate, total	mg/L	58.0	--	--	--
17	UA	Background	11/17/2023	A6DR	Sulfate, total	mg/L	62.0	--	--	--
17	UA	Background	01/24/2024	A7	Sulfate, total	mg/L	65.0	--	--	--
17	UA	Background	04/16/2024	A7R	Sulfate, total	mg/L	55.0	--	--	--
17	UA	Background	08/06/2024	A7D	Sulfate, total	mg/L	55.0	--	--	--
17	UA	Background	10/09/2024	A7DR	Sulfate, total	mg/L	70.0	--	--	--
17	UA	Background	08/28/2023	A6D	Total Dissolved Solids	mg/L	420	--	--	--
17	UA	Background	11/17/2023	A6DR	Total Dissolved Solids	mg/L	500	--	--	--
17	UA	Background	01/24/2024	A7	Total Dissolved Solids	mg/L	670	--	--	--
17	UA	Background	04/16/2024	A7R	Total Dissolved Solids	mg/L	420	--	--	--
17	UA	Background	08/06/2024	A7D	Total Dissolved Solids	mg/L	400	--	--	--
17	UA	Background	10/09/2024	A7DR	Total Dissolved Solids	mg/L	470	--	--	--
12	UA	Compliance	08/23/2023	A6D	Boron, total	mg/L	0.100	0.100	0.153	No Exceedance
12	UA	Compliance	11/17/2023	A6DR	Boron, total	mg/L	0.130 J+	0.130	0.153	No Exceedance
12	UA	Compliance	01/24/2024	A7	Boron, total	mg/L	0.160	0.160	0.153	Reported
12	UA	Compliance	04/15/2024	A7R	Boron, total	mg/L	0.210 J+	0.210	0.153	Confirmed
12	UA	Compliance	07/15/2024	A7D	Boron, total	mg/L	0.170 J+	0.170	0.153	Exceedance Not Confirmed
12	UA	Compliance	10/08/2024	A7DR	Boron, total	mg/L	0.130 J+	0.130	0.153	No Exceedance
12	UA	Compliance	08/23/2023	A6D	Calcium, total	mg/L	73.0	73.0	280	No Exceedance
12	UA	Compliance	11/17/2023	A6DR	Calcium, total	mg/L	77.0	77.0	280	No Exceedance
12	UA	Compliance	01/24/2024	A7	Calcium, total	mg/L	79.0	79.0	280	No Exceedance
12	UA	Compliance	04/15/2024	A7R	Calcium, total	mg/L	96.0	96.0	280	No Exceedance
12	UA	Compliance	07/15/2024	A7D	Calcium, total	mg/L	77.0	77.0	280	No Exceedance
12	UA	Compliance	10/08/2024	A7DR	Calcium, total	mg/L	77.0	77.0	280	No Exceedance
12	UA	Compliance	08/23/2023	A6D	Chloride, total	mg/L	83.0	83.0	396	No Exceedance
12	UA	Compliance	11/17/2023	A6DR	Chloride, total	mg/L	72.0	72.0	396	No Exceedance
12	UA	Compliance	01/24/2024	A7	Chloride, total	mg/L	80.0	80.0	396	No Exceedance
12	UA	Compliance	04/15/2024	A7R	Chloride, total	mg/L	68.0	68.0	396	No Exceedance
12	UA	Compliance	07/15/2024	A7D	Chloride, total	mg/L	69.0	69.0	396	No Exceedance
12	UA	Compliance	10/08/2024	A7DR	Chloride, total	mg/L	74.0	74.0	396	No Exceedance
12	UA	Compliance	08/23/2023	A6D	Fluoride, total	mg/L	0.3 J	0.5	0.120	No Exceedance

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
12	UA	Compliance	11/17/2023	A6DR	Fluoride, total	mg/L	0.210	0.210	0.120	No Exceedance
12	UA	Compliance	01/24/2024	A7	Fluoride, total	mg/L	0.210	0.210	0.120	Reported
12	UA	Compliance	04/15/2024	A7R	Fluoride, total	mg/L	0.190	0.190	0.120	Confirmed
12	UA	Compliance	07/15/2024	A7D	Fluoride, total	mg/L	0.220	0.220	0.120	Reported
12	UA	Compliance	10/08/2024	A7DR	Fluoride, total	mg/L	0.220	0.220	0.120	Confirmed
12	UA	Compliance	08/23/2023	A6D	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
12	UA	Compliance	11/17/2023	A6DR	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
12	UA	Compliance	01/24/2024	A7	pH (field)	SU	7.4	7.4	6.6/7.5	No Exceedance
12	UA	Compliance	04/15/2024	A7R	pH (field)	SU	7.2	7.2	6.6/7.5	No Exceedance
12	UA	Compliance	07/15/2024	A7D	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
12	UA	Compliance	10/08/2024	A7DR	pH (field)	SU	7.2	7.2	6.6/7.5	No Exceedance
12	UA	Compliance	08/23/2023	A6D	Sulfate, total	mg/L	65.0	65.0	200	No Exceedance
12	UA	Compliance	11/17/2023	A6DR	Sulfate, total	mg/L	63.0	63.0	200	No Exceedance
12	UA	Compliance	01/24/2024	A7	Sulfate, total	mg/L	69.0	69.0	200	No Exceedance
12	UA	Compliance	04/15/2024	A7R	Sulfate, total	mg/L	76.0	76.0	200	No Exceedance
12	UA	Compliance	07/15/2024	A7D	Sulfate, total	mg/L	60.0	60.0	200	No Exceedance
12	UA	Compliance	10/08/2024	A7DR	Sulfate, total	mg/L	61.0	61.0	200	No Exceedance
12	UA	Compliance	08/23/2023	A6D	Total Dissolved Solids	mg/L	500	500	1,520	No Exceedance
12	UA	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	470	470	1,520	No Exceedance
12	UA	Compliance	01/24/2024	A7	Total Dissolved Solids	mg/L	490	490	1,520	No Exceedance
12	UA	Compliance	04/15/2024	A7R	Total Dissolved Solids	mg/L	590	590	1,520	No Exceedance
12	UA	Compliance	07/15/2024	A7D	Total Dissolved Solids	mg/L	570	570	1,520	No Exceedance
12	UA	Compliance	10/08/2024	A7DR	Total Dissolved Solids	mg/L	470	470	1,520	No Exceedance
13	UA	Compliance	08/23/2023	A6D	Boron, total	mg/L	0.130	0.130	0.153	No Exceedance
13	UA	Compliance	11/17/2023	A6DR	Boron, total	mg/L	0.200 J+	0.200	0.153	Exceedance Not Confirmed
13	UA	Compliance	01/24/2024	A7	Boron, total	mg/L	0.600	0.600	0.153	Reported
13	UA	Compliance	04/15/2024	A7R	Boron, total	mg/L	0.240 J+	0.240	0.153	Confirmed
13	UA	Compliance	07/15/2024	A7D	Boron, total	mg/L	0.170 J+	0.170	0.153	Reported
13	UA	Compliance	10/08/2024	A7DR	Boron, total	mg/L	0.170 J+	0.170	0.153	Confirmed
13	UA	Compliance	08/23/2023	A6D	Calcium, total	mg/L	75.0	75.0	280	No Exceedance
13	UA	Compliance	11/17/2023	A6DR	Calcium, total	mg/L	76.0	76.0	280	No Exceedance
13	UA	Compliance	01/24/2024	A7	Calcium, total	mg/L	81.0	81.0	280	No Exceedance
13	UA	Compliance	04/15/2024	A7R	Calcium, total	mg/L	92.0	92.0	280	No Exceedance
13	UA	Compliance	07/15/2024	A7D	Calcium, total	mg/L	80.0	80.0	280	No Exceedance
13	UA	Compliance	10/08/2024	A7DR	Calcium, total	mg/L	80.0	80.0	280	No Exceedance
13	UA	Compliance	08/23/2023	A6D	Chloride, total	mg/L	81.0	81.0	396	No Exceedance
13	UA	Compliance	11/17/2023	A6DR	Chloride, total	mg/L	69.0	69.0	396	No Exceedance
13	UA	Compliance	01/24/2024	A7	Chloride, total	mg/L	81.0	81.0	396	No Exceedance
13	UA	Compliance	04/15/2024	A7R	Chloride, total	mg/L	71.0	71.0	396	No Exceedance
13	UA	Compliance	07/15/2024	A7D	Chloride, total	mg/L	69.0	69.0	396	No Exceedance
13	UA	Compliance	10/08/2024	A7DR	Chloride, total	mg/L	66.0	66.0	396	No Exceedance
13	UA	Compliance	08/23/2023	A6D	Fluoride, total	mg/L	0.27 J	0.5	0.120	No Exceedance
13	UA	Compliance	11/17/2023	A6DR	Fluoride, total	mg/L	0.200	0.200	0.120	No Exceedance
13	UA	Compliance	01/24/2024	A7	Fluoride, total	mg/L	0.200	0.200	0.120	Reported
13	UA	Compliance	04/15/2024	A7R	Fluoride, total	mg/L	0.190	0.190	0.120	Confirmed

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
13	UA	Compliance	07/15/2024	A7D	Fluoride, total	mg/L	0.200	0.200	0.120	Reported
13	UA	Compliance	10/08/2024	A7DR	Fluoride, total	mg/L	0.190	0.190	0.120	Confirmed
13	UA	Compliance	08/23/2023	A6D	pH (field)	SU	7.4	7.4	6.6/7.5	No Exceedance
13	UA	Compliance	11/17/2023	A6DR	pH (field)	SU	7.5	7.5	6.6/7.5	No Exceedance
13	UA	Compliance	01/24/2024	A7	pH (field)	SU	7.5	7.5	6.6/7.5	No Exceedance
13	UA	Compliance	04/15/2024	A7R	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
13	UA	Compliance	07/15/2024	A7D	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
13	UA	Compliance	10/08/2024	A7DR	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
13	UA	Compliance	08/23/2023	A6D	Sulfate, total	mg/L	68.0	68.0	200	No Exceedance
13	UA	Compliance	11/17/2023	A6DR	Sulfate, total	mg/L	63.0	63.0	200	No Exceedance
13	UA	Compliance	01/24/2024	A7	Sulfate, total	mg/L	100	100	200	No Exceedance
13	UA	Compliance	04/15/2024	A7R	Sulfate, total	mg/L	76.0	76.0	200	No Exceedance
13	UA	Compliance	07/15/2024	A7D	Sulfate, total	mg/L	61.0	61.0	200	No Exceedance
13	UA	Compliance	10/08/2024	A7DR	Sulfate, total	mg/L	56.0	56.0	200	No Exceedance
13	UA	Compliance	08/23/2023	A6D	Total Dissolved Solids	mg/L	480	480	1,520	No Exceedance
13	UA	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	500	500	1,520	No Exceedance
13	UA	Compliance	01/24/2024	A7	Total Dissolved Solids	mg/L	530	530	1,520	No Exceedance
13	UA	Compliance	04/15/2024	A7R	Total Dissolved Solids	mg/L	570	570	1,520	No Exceedance
13	UA	Compliance	07/15/2024	A7D	Total Dissolved Solids	mg/L	560	560	1,520	No Exceedance
13	UA	Compliance	10/08/2024	A7DR	Total Dissolved Solids	mg/L	440	440	1,520	No Exceedance
46	UA	Compliance	08/23/2023	A6D	Boron, total	mg/L	0.110	0.110	0.153	No Exceedance
46	UA	Compliance	11/20/2023	A6DR	Boron, total	mg/L	0.120 J+	0.120	0.153	No Exceedance
46	UA	Compliance	01/24/2024	A7	Boron, total	mg/L	0.360	0.360	0.153	Reported
46	UA	Compliance	04/15/2024	A7R	Boron, total	mg/L	0.300 J+	0.300	0.153	Confirmed
46	UA	Compliance	08/06/2024	A7D	Boron, total	mg/L	0.190 J+	0.190	0.153	Exceedance Not Confirmed
46	UA	Compliance	10/09/2024	A7DR	Boron, total	mg/L	0.140 J+	0.140	0.153	No Exceedance
46	UA	Compliance	08/23/2023	A6D	Calcium, total	mg/L	74.0	74.0	280	No Exceedance
46	UA	Compliance	11/20/2023	A6DR	Calcium, total	mg/L	79.0	79.0	280	No Exceedance
46	UA	Compliance	01/24/2024	A7	Calcium, total	mg/L	79.0	79.0	280	No Exceedance
46	UA	Compliance	04/15/2024	A7R	Calcium, total	mg/L	91.0	91.0	280	No Exceedance
46	UA	Compliance	08/06/2024	A7D	Calcium, total	mg/L	77.0	77.0	280	No Exceedance
46	UA	Compliance	10/09/2024	A7DR	Calcium, total	mg/L	81.0	81.0	280	No Exceedance
46	UA	Compliance	08/23/2023	A6D	Chloride, total	mg/L	84.0	84.0	396	No Exceedance
46	UA	Compliance	11/20/2023	A6DR	Chloride, total	mg/L	70.0	70.0	396	No Exceedance
46	UA	Compliance	01/24/2024	A7	Chloride, total	mg/L	81.0	81.0	396	No Exceedance
46	UA	Compliance	04/15/2024	A7R	Chloride, total	mg/L	66.0	66.0	396	No Exceedance
46	UA	Compliance	08/06/2024	A7D	Chloride, total	mg/L	67.0	67.0	396	No Exceedance
46	UA	Compliance	10/09/2024	A7DR	Chloride, total	mg/L	79.0	79.0	396	No Exceedance
46	UA	Compliance	08/23/2023	A6D	Fluoride, total	mg/L	0.31 J	0.5	0.120	No Exceedance
46	UA	Compliance	11/20/2023	A6DR	Fluoride, total	mg/L	0.220	0.220	0.120	No Exceedance
46	UA	Compliance	01/24/2024	A7	Fluoride, total	mg/L	0.220	0.220	0.120	Reported
46	UA	Compliance	04/15/2024	A7R	Fluoride, total	mg/L	0.210	0.210	0.120	Confirmed
46	UA	Compliance	08/06/2024	A7D	Fluoride, total	mg/L	0.240	0.240	0.120	Reported
46	UA	Compliance	10/09/2024	A7DR	Fluoride, total	mg/L	0.240	0.240	0.120	Confirmed
46	UA	Compliance	08/23/2023	A6D	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
46	UA	Compliance	11/20/2023	A6DR	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
46	UA	Compliance	01/24/2024	A7	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
46	UA	Compliance	04/15/2024	A7R	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
46	UA	Compliance	08/06/2024	A7D	pH (field)	SU	7.2	7.2	6.6/7.5	No Exceedance
46	UA	Compliance	10/09/2024	A7DR	pH (field)	SU	7.2	7.2	6.6/7.5	No Exceedance
46	UA	Compliance	08/23/2023	A6D	Sulfate, total	mg/L	87.0	87.0	200	No Exceedance
46	UA	Compliance	11/20/2023	A6DR	Sulfate, total	mg/L	61.0	61.0	200	No Exceedance
46	UA	Compliance	01/24/2024	A7	Sulfate, total	mg/L	72.0	72.0	200	No Exceedance
46	UA	Compliance	04/15/2024	A7R	Sulfate, total	mg/L	79.0	79.0	200	No Exceedance
46	UA	Compliance	08/06/2024	A7D	Sulfate, total	mg/L	58.0	58.0	200	No Exceedance
46	UA	Compliance	10/09/2024	A7DR	Sulfate, total	mg/L	61.0	61.0	200	No Exceedance
46	UA	Compliance	08/23/2023	A6D	Total Dissolved Solids	mg/L	460	460	1,520	No Exceedance
46	UA	Compliance	11/20/2023	A6DR	Total Dissolved Solids	mg/L	490	490	1,520	No Exceedance
46	UA	Compliance	01/24/2024	A7	Total Dissolved Solids	mg/L	520	520	1,520	No Exceedance
46	UA	Compliance	04/15/2024	A7R	Total Dissolved Solids	mg/L	530	530	1,520	No Exceedance
46	UA	Compliance	08/06/2024	A7D	Total Dissolved Solids	mg/L	410	410	1,520	No Exceedance
46	UA	Compliance	10/09/2024	A7DR	Total Dissolved Solids	mg/L	450	450	1,520	No Exceedance
47	UA	Compliance	08/23/2023	A6D	Boron, total	mg/L	0.470	0.470	0.153	Reported
47	UA	Compliance	11/17/2023	A6DR	Boron, total	mg/L	0.360	0.360	0.153	Confirmed
47	UA	Compliance	01/24/2024	A7	Boron, total	mg/L	0.490	0.490	0.153	Reported
47	UA	Compliance	04/15/2024	A7R	Boron, total	mg/L	0.260 J+	0.260	0.153	Confirmed
47	UA	Compliance	08/06/2024	A7D	Boron, total	mg/L	0.360	0.360	0.153	Reported
47	UA	Compliance	10/09/2024	A7DR	Boron, total	mg/L	0.160 J+	0.160	0.153	Confirmed
47	UA	Compliance	08/23/2023	A6D	Calcium, total	mg/L	89.0	89.0	280	No Exceedance
47	UA	Compliance	11/17/2023	A6DR	Calcium, total	mg/L	94.0	94.0	280	No Exceedance
47	UA	Compliance	01/24/2024	A7	Calcium, total	mg/L	97.0	97.0	280	No Exceedance
47	UA	Compliance	04/15/2024	A7R	Calcium, total	mg/L	100	100	280	No Exceedance
47	UA	Compliance	08/06/2024	A7D	Calcium, total	mg/L	85.0	85.0	280	No Exceedance
47	UA	Compliance	10/09/2024	A7DR	Calcium, total	mg/L	91.0	91.0	280	No Exceedance
47	UA	Compliance	08/23/2023	A6D	Chloride, total	mg/L	97.0	97.0	396	No Exceedance
47	UA	Compliance	11/17/2023	A6DR	Chloride, total	mg/L	83.0	83.0	396	No Exceedance
47	UA	Compliance	01/24/2024	A7	Chloride, total	mg/L	94.0	94.0	396	No Exceedance
47	UA	Compliance	04/15/2024	A7R	Chloride, total	mg/L	68.0	68.0	396	No Exceedance
47	UA	Compliance	08/06/2024	A7D	Chloride, total	mg/L	65.0	65.0	396	No Exceedance
47	UA	Compliance	10/09/2024	A7DR	Chloride, total	mg/L	71.0	71.0	396	No Exceedance
47	UA	Compliance	08/23/2023	A6D	Fluoride, total	mg/L	0.35 J	0.5	0.120	No Exceedance
47	UA	Compliance	11/17/2023	A6DR	Fluoride, total	mg/L	0.280	0.280	0.120	No Exceedance
47	UA	Compliance	01/24/2024	A7	Fluoride, total	mg/L	0.280	0.280	0.120	Reported
47	UA	Compliance	04/15/2024	A7R	Fluoride, total	mg/L	0.280	0.280	0.120	Confirmed
47	UA	Compliance	08/06/2024	A7D	Fluoride, total	mg/L	0.310	0.310	0.120	Reported
47	UA	Compliance	10/09/2024	A7DR	Fluoride, total	mg/L	0.260	0.260	0.120	Confirmed
47	UA	Compliance	08/23/2023	A6D	pH (field)	SU	7.0	7.0	6.6/7.5	No Exceedance
47	UA	Compliance	11/17/2023	A6DR	pH (field)	SU	7.1	7.1	6.6/7.5	No Exceedance
47	UA	Compliance	01/24/2024	A7	pH (field)	SU	7.1	7.1	6.6/7.5	No Exceedance
47	UA	Compliance	04/15/2024	A7R	pH (field)	SU	7.1	7.1	6.6/7.5	No Exceedance
47	UA	Compliance	08/06/2024	A7D	pH (field)	SU	7.2	7.2	6.6/7.5	No Exceedance

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
47	UA	Compliance	10/09/2024	A7DR	pH (field)	SU	7.0	7.0	6.6/7.5	No Exceedance
47	UA	Compliance	08/23/2023	A6D	Sulfate, total	mg/L	80.0	80.0	200	No Exceedance
47	UA	Compliance	11/17/2023	A6DR	Sulfate, total	mg/L	68.0	68.0	200	No Exceedance
47	UA	Compliance	01/24/2024	A7	Sulfate, total	mg/L	76.0	76.0	200	No Exceedance
47	UA	Compliance	04/15/2024	A7R	Sulfate, total	mg/L	73.0	73.0	200	No Exceedance
47	UA	Compliance	08/06/2024	A7D	Sulfate, total	mg/L	73.0	73.0	200	No Exceedance
47	UA	Compliance	10/09/2024	A7DR	Sulfate, total	mg/L	57.0	57.0	200	No Exceedance
47	UA	Compliance	08/23/2023	A6D	Total Dissolved Solids	mg/L	520	520	1,520	No Exceedance
47	UA	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	550	550	1,520	No Exceedance
47	UA	Compliance	01/24/2024	A7	Total Dissolved Solids	mg/L	600	600	1,520	No Exceedance
47	UA	Compliance	04/15/2024	A7R	Total Dissolved Solids	mg/L	560	560	1,520	No Exceedance
47	UA	Compliance	08/06/2024	A7D	Total Dissolved Solids	mg/L	460	460	1,520	No Exceedance
47	UA	Compliance	10/09/2024	A7DR	Total Dissolved Solids	mg/L	460	460	1,520	No Exceedance
52	UA	Compliance	08/24/2023	A6D	Boron, total	mg/L	0.160	0.160	0.153	Reported
52	UA	Compliance	11/20/2023	A6DR	Boron, total	mg/L	0.210 J+	0.210	0.153	Confirmed
52	UA	Compliance	01/24/2024	A7	Boron, total	mg/L	0.440	0.440	0.153	Reported
52	UA	Compliance	04/16/2024	A7R	Boron, total	mg/L	0.440 J+	0.440	0.153	Confirmed
52	UA	Compliance	08/06/2024	A7D	Boron, total	mg/L	0.280 J+	0.280	0.153	Reported
52	UA	Compliance	10/10/2024	A7DR	Boron, total	mg/L	0.320 J+	0.320	0.153	Confirmed
52	UA	Compliance	08/24/2023	A6D	Calcium, total	mg/L	85.0	85.0	280	No Exceedance
52	UA	Compliance	11/20/2023	A6DR	Calcium, total	mg/L	94.0	94.0	280	No Exceedance
52	UA	Compliance	01/24/2024	A7	Calcium, total	mg/L	88.0	88.0	280	No Exceedance
52	UA	Compliance	04/16/2024	A7R	Calcium, total	mg/L	81.0	81.0	280	No Exceedance
52	UA	Compliance	08/06/2024	A7D	Calcium, total	mg/L	89.0	89.0	280	No Exceedance
52	UA	Compliance	10/10/2024	A7DR	Calcium, total	mg/L	100	100	280	No Exceedance
52	UA	Compliance	08/24/2023	A6D	Chloride, total	mg/L	88.0	88.0	396	No Exceedance
52	UA	Compliance	11/20/2023	A6DR	Chloride, total	mg/L	85.0	85.0	396	No Exceedance
52	UA	Compliance	01/24/2024	A7	Chloride, total	mg/L	91.0	91.0	396	No Exceedance
52	UA	Compliance	04/16/2024	A7R	Chloride, total	mg/L	70.0	70.0	396	No Exceedance
52	UA	Compliance	08/06/2024	A7D	Chloride, total	mg/L	70.0	70.0	396	No Exceedance
52	UA	Compliance	10/10/2024	A7DR	Chloride, total	mg/L	72.0	72.0	396	No Exceedance
52	UA	Compliance	08/24/2023	A6D	Fluoride, total	mg/L	0.34 J	0.5	0.120	No Exceedance
52	UA	Compliance	11/20/2023	A6DR	Fluoride, total	mg/L	0.230	0.230	0.120	No Exceedance
52	UA	Compliance	01/24/2024	A7	Fluoride, total	mg/L	0.250	0.250	0.120	Reported
52	UA	Compliance	04/16/2024	A7R	Fluoride, total	mg/L	0.310	0.310	0.120	Confirmed
52	UA	Compliance	08/06/2024	A7D	Fluoride, total	mg/L	0.270	0.270	0.120	Reported
52	UA	Compliance	10/10/2024	A7DR	Fluoride, total	mg/L	0.260	0.260	0.120	Confirmed
52	UA	Compliance	08/24/2023	A6D	pH (field)	SU	7.0	7.0	6.6/7.5	No Exceedance
52	UA	Compliance	11/20/2023	A6DR	pH (field)	SU	7.1	7.1	6.6/7.5	No Exceedance
52	UA	Compliance	01/24/2024	A7	pH (field)	SU	7.2	7.2	6.6/7.5	No Exceedance
52	UA	Compliance	04/16/2024	A7R	pH (field)	SU	7.2	7.2	6.6/7.5	No Exceedance
52	UA	Compliance	08/06/2024	A7D	pH (field)	SU	7.0	7.0	6.6/7.5	No Exceedance
52	UA	Compliance	10/10/2024	A7DR	pH (field)	SU	6.9	6.9	6.6/7.5	No Exceedance
52	UA	Compliance	08/24/2023	A6D	Sulfate, total	mg/L	62.0	62.0	200	No Exceedance
52	UA	Compliance	11/20/2023	A6DR	Sulfate, total	mg/L	66.0	66.0	200	No Exceedance
52	UA	Compliance	01/24/2024	A7	Sulfate, total	mg/L	78.0	78.0	200	No Exceedance

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
52	UA	Compliance	04/16/2024	A7R	Sulfate, total	mg/L	71.0	71.0	200	No Exceedance
52	UA	Compliance	08/06/2024	A7D	Sulfate, total	mg/L	60.0	60.0	200	No Exceedance
52	UA	Compliance	10/10/2024	A7DR	Sulfate, total	mg/L	63.0	63.0	200	No Exceedance
52	UA	Compliance	08/24/2023	A6D	Total Dissolved Solids	mg/L	520	520	1,520	No Exceedance
52	UA	Compliance	11/20/2023	A6DR	Total Dissolved Solids	mg/L	520	520	1,520	No Exceedance
52	UA	Compliance	01/24/2024	A7	Total Dissolved Solids	mg/L	580	580	1,520	No Exceedance
52	UA	Compliance	04/16/2024	A7R	Total Dissolved Solids	mg/L	540	540	1,520	No Exceedance
52	UA	Compliance	08/06/2024	A7D	Total Dissolved Solids	mg/L	450	450	1,520	No Exceedance
52	UA	Compliance	10/10/2024	A7DR	Total Dissolved Solids	mg/L	510	510	1,520	No Exceedance
54	UA	Compliance	08/23/2023	A6D	Boron, total	mg/L	0.230	0.230	0.153	Reported
54	UA	Compliance	11/17/2023	A6DR	Boron, total	mg/L	0.410	0.410	0.153	Confirmed
54	UA	Compliance	01/24/2024	A7	Boron, total	mg/L	0.560	0.560	0.153	Reported
54	UA	Compliance	04/16/2024	A7R	Boron, total	mg/L	0.580 J+	0.580	0.153	Confirmed
54	UA	Compliance	08/06/2024	A7D	Boron, total	mg/L	0.290 J+	0.290	0.153	Reported
54	UA	Compliance	10/10/2024	A7DR	Boron, total	mg/L	0.300 J+	0.300	0.153	Confirmed
54	UA	Compliance	08/23/2023	A6D	Calcium, total	mg/L	77.0	77.0	280	No Exceedance
54	UA	Compliance	11/17/2023	A6DR	Calcium, total	mg/L	72.0	72.0	280	No Exceedance
54	UA	Compliance	01/24/2024	A7	Calcium, total	mg/L	84.0	84.0	280	No Exceedance
54	UA	Compliance	04/16/2024	A7R	Calcium, total	mg/L	86.0	86.0	280	No Exceedance
54	UA	Compliance	08/06/2024	A7D	Calcium, total	mg/L	78.0	78.0	280	No Exceedance
54	UA	Compliance	10/10/2024	A7DR	Calcium, total	mg/L	79.0	79.0	280	No Exceedance
54	UA	Compliance	08/23/2023	A6D	Chloride, total	mg/L	84.0	84.0	396	No Exceedance
54	UA	Compliance	11/17/2023	A6DR	Chloride, total	mg/L	74.0	74.0	396	No Exceedance
54	UA	Compliance	01/24/2024	A7	Chloride, total	mg/L	86.0	86.0	396	No Exceedance
54	UA	Compliance	04/16/2024	A7R	Chloride, total	mg/L	71.0	71.0	396	No Exceedance
54	UA	Compliance	08/06/2024	A7D	Chloride, total	mg/L	69.0	69.0	396	No Exceedance
54	UA	Compliance	10/10/2024	A7DR	Chloride, total	mg/L	63.0	63.0	396	No Exceedance
54	UA	Compliance	08/23/2023	A6D	Fluoride, total	mg/L	0.33 J	0.5	0.120	No Exceedance
54	UA	Compliance	11/17/2023	A6DR	Fluoride, total	mg/L	0.280	0.280	0.120	No Exceedance
54	UA	Compliance	01/24/2024	A7	Fluoride, total	mg/L	0.260	0.260	0.120	Reported
54	UA	Compliance	04/16/2024	A7R	Fluoride, total	mg/L	0.270	0.270	0.120	Confirmed
54	UA	Compliance	08/06/2024	A7D	Fluoride, total	mg/L	0.250	0.250	0.120	Reported
54	UA	Compliance	10/10/2024	A7DR	Fluoride, total	mg/L	0.260	0.260	0.120	Confirmed
54	UA	Compliance	08/23/2023	A6D	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
54	UA	Compliance	11/17/2023	A6DR	pH (field)	SU	7.4	7.4	6.6/7.5	No Exceedance
54	UA	Compliance	01/24/2024	A7	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
54	UA	Compliance	04/16/2024	A7R	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
54	UA	Compliance	08/06/2024	A7D	pH (field)	SU	7.3	7.3	6.6/7.5	No Exceedance
54	UA	Compliance	10/10/2024	A7DR	pH (field)	SU	7.2	7.2	6.6/7.5	No Exceedance
54	UA	Compliance	08/23/2023	A6D	Sulfate, total	mg/L	85.0	85.0	200	No Exceedance
54	UA	Compliance	11/17/2023	A6DR	Sulfate, total	mg/L	75.0	75.0	200	No Exceedance
54	UA	Compliance	01/24/2024	A7	Sulfate, total	mg/L	86.0	86.0	200	No Exceedance
54	UA	Compliance	04/16/2024	A7R	Sulfate, total	mg/L	88.0	88.0	200	No Exceedance
54	UA	Compliance	08/06/2024	A7D	Sulfate, total	mg/L	64.0	64.0	200	No Exceedance
54	UA	Compliance	10/10/2024	A7DR	Sulfate, total	mg/L	57.0	57.0	200	No Exceedance
54	UA	Compliance	08/23/2023	A6D	Total Dissolved Solids	mg/L	510	510	1,520	No Exceedance

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Comparison Value	Background	SSI Type
54	UA	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	490	490	1,520	No Exceedance
54	UA	Compliance	01/24/2024	A7	Total Dissolved Solids	mg/L	580	580	1,520	No Exceedance
54	UA	Compliance	04/16/2024	A7R	Total Dissolved Solids	mg/L	580	580	1,520	No Exceedance
54	UA	Compliance	08/06/2024	A7D	Total Dissolved Solids	mg/L	480	480	1,520	No Exceedance
54	UA	Compliance	10/10/2024	A7DR	Total Dissolved Solids	mg/L	470	470	1,520	No Exceedance

Notes:
-- = not applicable
Comparison Value is different from the Result when the Result is below the Reporting Limit (RL). The Result will not be used in statistical calculations due to the inherent uncertainty in results that are below the RL. Half of the RL will be substituted for these data. See the *Multi-Site Statistical Analysis Plan* (Ramboll, 2022a) for more information.
Event IDs:
A6D = Quarter 3, 2023 Assessment Monitoring sampling event
A6DR = Quarter 4, 2023 Assessment Monitoring resampling event
A7 = Quarter 1, 2024 Assessment Monitoring sampling event
A7R = Quarter 2, 2024 Assessment Monitoring resampling event
A7D = Quarter 3, 2024 Assessment Monitoring sampling event
A7DR = Quarter 4, 2024 Assessment Monitoring resampling event
HSU = hydrostratigraphic unit:
UA = Uppermost Aquifer
ID = identification
mg/L = milligrams per liter
Result Code (if applicable):
NR[1] = Parameter not analyzed.
NS[1] = Well has been, or will be, abandoned; therefore, a sample was not collected.
NS[2] = Well either needs or was undergoing maintenance; therefore, a sample was not collected.
NS[3] = The location was not accessible; therefore, a sample was not collected.
NS[4] = The location could not be found; therefore, a sample was not collected.
NS[5] = The location was damaged; therefore, a sample was not collected.
NS[6] = Sampling pump could not yield a sample.
NS[7] = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.
NS[8] = A sample was not collected.
PM[1] = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.
Result qualifiers as defined in the United States Environmental Protection Agency's *National Functional Guidelines for Inorganic Superfund Methods Data Review*, EPA 542-R-20-006. November 2020.:
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.
Statistically Significant Increase (SSI) Type:
No Exceedance: No exceedance of the background.
Exceedance Not Confirmed: An exceedance was determined in the parent event, a resample was collected, and the resample did not confirm the exceedance; or an exceedance was not determined in the parent event but a subsequent sample collected exhibited a concentration higher than background.
Reported: An exceedance in the parent event was observed and reported.
Confirmed: A resample confirmed an observed exceedance in the parent event.
SU = Standard Units

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TABLE 3
ANALYTICAL RESULTS - APPENDIX IV PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
07	B	11/20/2023	A6DR	0.0013 U	0.00043 J	0.130	0.00053 U	0.00017 U	0.0018 J	0.0120	0.120	0.00019 U	0.00980	0.000079 U	0.0025 U	0.978	0.00098 U	0.00057 U
07	B	01/26/2024	A7	0.0013 U	0.00023 U	0.100	0.00053 U	0.00017 U	0.0011 U	0.00750	0.120	0.00019 U	0.00520	0.000079 U	0.0025 U	0.947	0.00098 U	0.00057 U
07	B	04/16/2024	A7R	0.0013 U	0.00023 U	0.0990	0.00053 U	0.00017 U	0.0012 J	0.00680	0.130	0.00019 U	0.00800	0.00019 U	0.0025 U	1.30	0.00098 U	0.00057 U
07	B	07/15/2024	A7D	0.0013 U	0.00023 U	0.170	0.00053 U	0.00017 U	0.0011 U	0.00230	0.120	0.00019 U	0.0130 J+	0.000076 U	0.0025 U	0.436	0.00098 U	0.00057 U
07	B	10/10/2024	A7DR	0.0013 U	0.00023 U	0.120	0.00053 U	0.00017 U	0.0011 U	0.00370	0.110	0.00019 U	0.00960	0.000076 U	0.0025 U	0.406	0.00098 U	0.00057 U
08	B	11/17/2023	A6DR	0.0013 U	0.0005 J	0.140	0.00053 U	0.000500	0.0011 U	0.00460	0.089 J	0.000660	0.0110	0.000079 U	0.0025 U	1.03	0.00098 U	0.00057 U
08	B	01/26/2024	A7	0.0013 U	0.00023 U	0.120	0.00053 U	0.00049 J	0.0011 U	0.00430	0.083 J	0.00031 J	0.0130	0.000079 U	0.0025 U	1.41	0.00098 U	0.00057 U
08	B	04/16/2024	A7R	0.0013 U	0.00023 U	0.120	0.00053 U	0.000500	0.0011 U	0.00330	0.093 J	0.00048 J	0.0160	0.000076 U	0.0025 U	1.35	0.00098 U	0.00057 U
08	B	07/16/2024	A7D	0.0013 U	0.00023 U	0.100	0.00053 U	0.0003 J	0.0011 U	0.00120	0.110	0.0005 UJ	0.0110 J+	0.000076 U	0.0025 U	0.596	0.00098 U	0.00057 U
08	B	10/10/2024	A7DR	0.0013 U	0.00023 U	0.120	0.00053 U	0.00041 J	0.0011 U	0.00240	0.086 J	0.00031 J	0.0160	0.000076 U	0.0025 U	1.07	0.00098 U	0.00057 U
08D	B	11/17/2023	A6DR	0.0013 U	0.00031 J	0.100	0.00053 U	0.00049 J	0.0017 J	0.00410	0.097 J	0.00035 J	0.00920	0.000079 U	0.0025 U	1.12	0.00098 U	0.00057 U
08D	B	01/25/2024	A7	0.0013 U	0.00033 J	0.140	0.00053 U	0.000930	0.0011 U	0.00460	0.09 J	0.000710	0.0140	0.000079 U	0.0025 U	0.389	0.00098 U	0.00057 U
08D	B	04/16/2024	A7R	0.0013 U	0.00023 U	0.120	0.00053 U	0.00110	0.0011 U	0.00680	0.110	0.000930	0.00940	0.000076 U	0.0025 U	0.413	0.00098 U	0.00057 U
08D	B	07/16/2024	A7D	0.0013 U	0.00023 U	0.100	0.00053 U	0.000500	0.0011 U	0.00310	0.110	0.0005 UJ	0.0160 J+	0.000076 U	0.0025 U	0.418	0.00098 U	0.00057 U
08D	B	10/08/2024	A7DR	0.0013 U	0.00023 U	0.0930	0.00053 U	0.00039 J	0.0011 U	0.00200	0.100	0.00032 J	0.0140	0.000076 U	0.0025 U	0.773	0.00098 U	0.00057 U
16	B	11/17/2023	A6DR	0.0013 U	0.00051 J	0.0730	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.220	0.00019 U	0.00580	0.000079 U	0.00610	1.01	0.00098 U	0.00057 U
16	B	01/24/2024	A7	0.0013 U	0.00041 J	0.0740	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.230	0.00019 U	0.0048 J	0.000079 U	0.00700	0.198	0.00098 U	0.00057 U
16	B	04/16/2024	A7R	0.0013 U	0.00023 U	0.0590	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.240	0.00019 U	0.002 U	0.000095 J	0.00620	0.637	0.00098 U	0.00057 U
16	B	07/16/2024	A7D	0.0013 U	0.00023 U	0.0630	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.270	0.00019 U	0.00760 J+	0.000076 U	0.00980	0.117	0.00098 U	0.00057 U
16	B	10/09/2024	A7DR	0.0013 U	0.00023 U	0.0720	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.210	0.00019 U	0.00560	0.000076 U	0.00640	0.157	0.00098 U	0.00057 U
17	B	11/17/2023	A6DR	0.0013 U	0.00041 J	0.0900	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.210	0.00019 U	0.0023 J	0.000079 U	0.00520	0.759	0.00098 U	0.00057 U
17	B	01/24/2024	A7	0.0013 U	0.00046 J	0.140	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.150	0.00019 U	0.00550	0.000079 U	0.0029 J	0.544	0.00098 U	0.00057 U
17	B	04/16/2024	A7R	0.0013 U	0.00023 U	0.0770	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.180	0.00019 U	0.0031 J	0.000076 U	0.0031 J	1.09	0.00098 U	0.00057 U
17	B	08/06/2024	A7D	0.0013 U	0.00023 U	0.0680	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.270	0.00019 U	0.00620 J+	0.000076 U	0.00620	0.745	0.00098 U	0.00057 U
17	B	10/09/2024	A7DR	0.0013 U	0.00023 U	0.0860	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.230	0.00019 U	0.00660	0.000076 U	0.0043 J	0.442	0.00098 U	0.00057 U
12	C	11/17/2023	A6DR	0.0013 U	0.00044 J	0.0590	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.210	0.00019 U	0.00540	0.000079 U	0.0150	1.15	0.00098 U	0.00057 U
12	C	01/24/2024	A7	0.0013 U	0.00049 J	0.0620	0.00053 U	0.00017 U	0.0012 J	0.0004 U	0.210	0.00019 U	0.00950	0.000079 U	0.0150	0.313	0.00098 U	0.00057 U

TABLE 3
ANALYTICAL RESULTS - APPENDIX IV PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
12	C	04/15/2024	A7R	0.0013 U	0.00023 J	0.0720	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.190	0.00019 U	0.0140	0.000076 U	0.0120	0.590	0.0014 J	0.00057 U
12	C	07/15/2024	A7D	0.0013 U	0.00023 U	0.0560	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.220	0.00019 U	0.00830 J+	0.000076 U	0.0150	0.641	0.00098 U	0.00057 U
12	C	10/08/2024	A7DR	0.0013 U	0.00023 J	0.0580	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.220	0.00019 U	0.00900	0.000076 U	0.0140	0.867	0.00098 U	0.00057 U
13	C	11/17/2023	A6DR	0.0013 U	0.00052 J	0.0440	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.200	0.00019 U	0.00840	0.000079 U	0.0130	0.608	0.00098 U	0.00057 U
13	C	01/24/2024	A7	0.0013 U	0.00073 J	0.0490	0.00053 U	0.00017 U	0.0014 J	0.0004 U	0.200	0.00019 U	0.0120	0.000079 U	0.0140	0.678	0.0019 J	0.00057 U
13	C	04/15/2024	A7R	0.0013 U	0.00037 J	0.0530	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.190	0.00021 J	0.0180	0.000076 U	0.0110	0.0634	0.0011 J	0.00057 U
13	C	07/15/2024	A7D	0.0013 U	0.0003 J	0.0440	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.200	0.00019 U	0.0110 J+	0.000076 U	0.00990	0.153	0.00098 U	0.00057 U
13	C	10/08/2024	A7DR	0.0013 U	0.00037 J	0.0440	0.00053 U	0.00017 U	0.0011 J	0.0004 U	0.190	0.00019 U	0.0110	0.000076 U	0.0110	0.863	0.00098 U	0.00057 U
46	C	11/20/2023	A6DR	0.0013 U	0.00049 J	0.0710	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.220	0.00019 U	0.00890	0.000079 U	0.0180	0.544	0.00098 U	0.00057 U
46	C	01/24/2024	A7	0.0013 U	0.00055 J	0.0710	0.00053 U	0.00017 U	0.0013 J	0.0004 U	0.220	0.00019 U	0.00620	0.000079 U	0.0180	0.620	0.0013 J	0.00057 U
46	C	04/15/2024	A7R	0.0013 U	0.00023 U	0.0760	0.00053 U	0.00017 U	0.0011 J	0.0004 U	0.210	0.00019 U	0.0130	0.000076 U	0.0150	0.436	0.0014 J	0.00057 U
46	C	08/06/2024	A7D	0.0013 U	0.00023 U	0.0630	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.240	0.00019 U	0.00800 J+	0.000076 U	0.0170	0.111	0.00098 U	0.00057 U
46	C	10/09/2024	A7DR	0.0013 U	0.00023 U	0.0740	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.240	0.00019 U	0.00760	0.000076 U	0.0200	0.526	0.00098 U	0.00057 U
47	C	11/17/2023	A6DR	0.0013 U	0.00026 J	0.0890	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.280	0.00019 U	0.00500	0.000079 U	0.0240	1.14	0.00098 U	0.00057 U
47	C	01/24/2024	A7	0.0013 U	0.00047 J	0.0970	0.00053 U	0.00017 U	0.0011 U	0.00052 J	0.280	0.00044 J	0.00730	0.000079 U	0.0260	0.339	0.00098 U	0.00057 U
47	C	04/15/2024	A7R	0.0013 U	0.00023 U	0.0920	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.280	0.00019 U	0.0110	0.000076 U	0.0240	0.402	0.00400	0.00057 U
47	C	08/06/2024	A7D	0.0013 U	0.00023 U	0.0720	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.310	0.00019 U	0.0100 J+	0.000076 U	0.0310	0.130	0.0012 J	0.00057 U
47	C	10/09/2024	A7DR	0.0013 U	0.00023 U	0.0790	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.260	0.00019 U	0.0100	0.000076 U	0.0280	0.748	0.00098 U	0.00057 U
52	C	11/20/2023	A6DR	0.0013 U	0.00047 J	0.0970	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.230	0.00019 U	0.00850	0.000079 U	0.0110	0.558	0.00098 U	0.00057 U
52	C	01/24/2024	A7	0.0013 U	0.00048 J	0.0870	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.250	0.00019 U	0.00640	0.000079 U	0.0120	0.378	0.002 J	0.00057 U
52	C	04/16/2024	A7R	0.0013 U	0.00023 U	0.0780	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.310	0.00019 U	0.0046 J	0.000076 U	0.0170	1.33	0.0024 J	0.00057 U
52	C	08/06/2024	A7D	0.0013 U	0.00023 U	0.0810	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.270	0.00019 U	0.0100 J+	0.000076 U	0.0140	0.295	0.00098 U	0.00057 U
52	C	10/10/2024	A7DR	0.0013 U	0.00023 U	0.100	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.260	0.00019 U	0.00940	0.000076 U	0.0130	0.459	0.00098 U	0.00057 U
54	C	11/17/2023	A6DR	0.0013 U	0.00031 J	0.0480	0.00053 U	0.00017 U	0.0012 J	0.0004 U	0.280	0.00019 U	0.0120	0.000079 U	0.0310	1.31	0.00098 U	0.00057 U
54	C	01/24/2024	A7	0.0013 U	0.00023 U	0.0550	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.260	0.00019 U	0.0130	0.000079 U	0.0280	0.379	0.0014 J	0.00057 U
54	C	04/16/2024	A7R	0.0013 U	0.00024 J	0.0560	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.270	0.00019 U	0.290 J	0.00170	0.0250	0.551	0.00280	0.00057 U
54	C	08/06/2024	A7D	0.0013 U	0.00023 J	0.0460	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.250	0.00019 U	0.0110 J+	0.000076 U	0.0250	0.138	0.0011 J	0.00057 U

TABLE 3
ANALYTICAL RESULTS - APPENDIX IV PARAMETERS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
54	C	10/10/2024	A7DR	0.0013 U	0.00023 U	0.0520	0.00053 U	0.00017 U	0.0011 U	0.0004 U	0.260	0.00019 U	0.0100	0.000076 U	0.0300	0.128	0.00098 U	0.00057 U

Notes:
Data qualifiers as defined in the United States Environmental Protection Agency's *National Functional Guidelines for Inorganic Superfund Methods Data Review* (2020):
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.
Event IDs:
A6DR = Quarter 4, 2023 Assessment Monitoring resampling event
A7 = Quarter 1, 2024 Assessment Monitoring sampling event
A7R = Quarter 2, 2024 Assessment Monitoring resampling event
A7D = Quarter 3, 2024 Assessment Monitoring sampling event
A7DR = Quarter 4, 2024 Assessment Monitoring resampling event
ID = identification
mg/L = milligrams per liter
pCi/L = picoCuries per liter
Result Code (if applicable):
NR[1] = Parameter not analyzed.
NS[1] = Well has been, or will be, abandoned; therefore, a sample was not collected.
NS[2] = Well either needs or was undergoing maintenance; therefore, a sample was not collected.
NS[3] = The location was not accessible; therefore, a sample was not collected.
NS[4] = The location could not be found; therefore, a sample was not collected.
NS[5] = The location was damaged; therefore, a sample was not collected.
NS[6] = Sampling pump could not yield a sample.
NS[7] = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.
NS[8] = A sample was not collected.
PM[1] = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.
Well Type:
B = Background
C = Compliance

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TABLE 4
STATISTICAL BACKGROUND VALUES
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Parameter	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Statistical Background Value (LPL/UPL)
Boron (mg/L)	12/08/2015 - 06/09/2017	24	0	Parametric UPL	0.153
Calcium (mg/L)	12/08/2015 - 06/09/2017	24	0	Parametric UPL	280
Chloride (mg/L)	12/08/2015 - 06/09/2017	24	0	Parametric UPL	396
Fluoride (mg/L)	12/08/2015 - 06/09/2017	24	58	Non-parametric UPL	0.120
pH (field) (SU)	12/08/2015 - 06/09/2017	24	0	Non-parametric LPL/UPL	6.6/7.5
Sulfate (mg/L)	12/08/2015 - 06/09/2017	24	0	Parametric UPL	200
Total Dissolved Solids (mg/L)	12/08/2015 - 06/09/2017	24	0	Parametric UPL	1,520

Notes:
LPL = lower prediction limit (applicable for pH only)
mg/L = milligrams per liter
SU = standard units
UPL = upper prediction limit

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TABLE 5
GROUNDWATER PROTECTION STANDARDS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Parameter	Background					MCL/HBL	Groundwater Protection Standard*	Groundwater Protection Standard Source
	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Value			
Antimony (mg/L)	12/08/2015 - 06/09/2017	24	100	All ND - Last Reporting Limit	0.001	0.006	0.006	MCL/HBL
Arsenic (mg/L)	12/08/2015 - 06/09/2017	24	100	All ND - Last Reporting Limit	0.001	0.010	0.010	MCL/HBL
Barium (mg/L)	12/08/2015 - 06/09/2017	24	0	Parametric UTL	0.212	2.0	2.0	MCL/HBL
Beryllium (mg/L)	12/08/2015 - 06/09/2017	24	100	All ND - Last Reporting Limit	0.001	0.004	0.004	MCL/HBL
Cadmium (mg/L)	12/08/2015 - 06/09/2017	24	88	Non-parametric UTL	0.00230	0.005	0.005	MCL/HBL
Chromium (mg/L)	12/08/2015 - 06/09/2017	24	96	Non-parametric UTL	0.00100	0.1	0.1	MCL/HBL
Cobalt (mg/L)	12/08/2015 - 06/09/2017	24	33	Non-parametric UTL	0.0385	0.006	0.0385	Background
Fluoride (mg/L)	12/08/2015 - 06/09/2017	24	58	Non-parametric UTL	0.120	4.0	4.0	MCL/HBL
Lead (mg/L)	12/08/2015 - 06/09/2017	24	96	Non-parametric UTL	0.00150	0.015	0.015	MCL/HBL
Lithium (mg/L)	12/08/2015 - 06/09/2017	24	0	Parametric UTL (log-transformed)	0.0187	0.04	0.04	MCL/HBL
Mercury (mg/L)	12/08/2015 - 06/09/2017	24	100	All ND - Last Reporting Limit	0.0002	0.002	0.002	MCL/HBL
Molybdenum (mg/L)	12/08/2015 - 06/09/2017	24	29	Non-parametric UTL	0.00170	0.1	0.1	MCL/HBL
Radium 226 + Radium 228 (pCi/L)	12/08/2015 - 06/09/2017	24	0	Parametric UTL	1.51	5	5	MCL/HBL
Selenium (mg/L)	12/08/2015 - 06/09/2017	24	79	Non-parametric UTL	0.00140	0.05	0.05	MCL/HBL
Thallium (mg/L)	12/08/2015 - 06/09/2017	24	100	All ND - Last Reporting Limit	0.001	0.002	0.002	MCL/HBL

Notes:
* Groundwater Protection Standard is the higher of the MCL/HBL or background.
MCL/HBL = maximum contaminant level/health-based level
mg/L = milligrams per liter
ND = non-detect
pCi/L = picoCuries per liter
UTL = upper tolerance limit

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TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
12	UA	A6D	Antimony, total	mg/L	12/09/15 - 08/23/23	18	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
12	UA	A6DR	Antimony, total	mg/L	12/09/15 - 11/17/23	19	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
12	UA	A7	Antimony, total	mg/L	12/09/15 - 01/24/24	20	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
12	UA	A7R	Antimony, total	mg/L	12/09/15 - 04/15/24	21	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
12	UA	A7D	Antimony, total	mg/L	12/09/15 - 07/15/24	22	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
12	UA	A7DR	Antimony, total	mg/L	12/09/15 - 10/08/24	23	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
12	UA	A6D	Arsenic, total	mg/L	12/09/15 - 08/23/23	23	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
12	UA	A6DR	Arsenic, total	mg/L	12/09/15 - 11/17/23	24	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
12	UA	A7	Arsenic, total	mg/L	12/09/15 - 01/24/24	25	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
12	UA	A7R	Arsenic, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
12	UA	A7D	Arsenic, total	mg/L	12/09/15 - 07/15/24	27	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
12	UA	A7DR	Arsenic, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
12	UA	A6D	Barium, total	mg/L	12/09/15 - 08/23/23	25	0	CI around mean	0.0514	2.0	MCL/HBL	No Exceedance
12	UA	A6DR	Barium, total	mg/L	12/09/15 - 11/17/23	26	0	CI around mean	0.0517	2.0	MCL/HBL	No Exceedance
12	UA	A7	Barium, total	mg/L	12/09/15 - 01/24/24	27	0	CI around mean	0.0521	2.0	MCL/HBL	No Exceedance
12	UA	A7R	Barium, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0527	2.0	MCL/HBL	No Exceedance
12	UA	A7D	Barium, total	mg/L	12/09/15 - 07/15/24	29	0	CI around mean	0.0529	2.0	MCL/HBL	No Exceedance
12	UA	A7DR	Barium, total	mg/L	12/09/15 - 10/08/24	30	0	CI around mean	0.0530	2.0	MCL/HBL	No Exceedance
12	UA	A6D	Beryllium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
12	UA	A6DR	Beryllium, total	mg/L	12/09/15 - 11/17/23	18	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
12	UA	A7	Beryllium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
12	UA	A7R	Beryllium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
12	UA	A7D	Beryllium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
12	UA	A7DR	Beryllium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
12	UA	A6D	Cadmium, total	mg/L	12/09/15 - 08/23/23	27	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
12	UA	A6DR	Cadmium, total	mg/L	12/09/15 - 11/17/23	28	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
12	UA	A7	Cadmium, total	mg/L	12/09/15 - 01/24/24	29	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
12	UA	A7R	Cadmium, total	mg/L	12/09/15 - 04/15/24	30	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
12	UA	A7D	Cadmium, total	mg/L	12/09/15 - 07/15/24	31	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
12	UA	A7DR	Cadmium, total	mg/L	12/09/15 - 10/08/24	32	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
12	UA	A6D	Chromium, total	mg/L	12/09/15 - 08/23/23	23	95	CB around T-S line	0.00148	0.1	MCL/HBL	No Exceedance
12	UA	A6DR	Chromium, total	mg/L	12/09/15 - 11/17/23	24	95	CB around T-S line	0.00150	0.1	MCL/HBL	No Exceedance
12	UA	A7	Chromium, total	mg/L	12/09/15 - 01/24/24	25	96	CB around T-S line	0.00150	0.1	MCL/HBL	No Exceedance
12	UA	A7R	Chromium, total	mg/L	12/09/15 - 04/15/24	26	96	CB around T-S line	0.00150	0.1	MCL/HBL	No Exceedance
12	UA	A7D	Chromium, total	mg/L	12/09/15 - 07/15/24	27	96	CB around T-S line	0.00153	0.1	MCL/HBL	No Exceedance
12	UA	A7DR	Chromium, total	mg/L	12/09/15 - 10/08/24	28	96	CB around T-S line	0.00150	0.1	MCL/HBL	No Exceedance
12	UA	A6D	Cobalt, total	mg/L	12/09/15 - 08/23/23	21	100	All ND - Last	0.001	0.0385	Background	No Exceedance
12	UA	A6DR	Cobalt, total	mg/L	12/09/15 - 11/17/23	22	100	All ND - Last	0.001	0.0385	Background	No Exceedance
12	UA	A7	Cobalt, total	mg/L	12/09/15 - 01/24/24	23	100	All ND - Last	0.001	0.0385	Background	No Exceedance
12	UA	A7R	Cobalt, total	mg/L	12/09/15 - 04/15/24	24	100	All ND - Last	0.001	0.0385	Background	No Exceedance
12	UA	A7D	Cobalt, total	mg/L	12/09/15 - 07/15/24	25	100	All ND - Last	0.001	0.0385	Background	No Exceedance
12	UA	A7DR	Cobalt, total	mg/L	12/09/15 - 10/08/24	26	100	All ND - Last	0.001	0.0385	Background	No Exceedance
12	UA	A6D	Fluoride, total	mg/L	12/09/15 - 08/23/23	26	3	CI around median	0.240	4.0	MCL/HBL	No Exceedance
12	UA	A6DR	Fluoride, total	mg/L	12/09/15 - 11/17/23	27	3	CI around median	0.230	4.0	MCL/HBL	No Exceedance
12	UA	A7	Fluoride, total	mg/L	12/09/15 - 01/24/24	28	3	CI around median	0.230	4.0	MCL/HBL	No Exceedance
12	UA	A7R	Fluoride, total	mg/L	12/09/15 - 04/15/24	29	3	CI around median	0.230	4.0	MCL/HBL	No Exceedance
12	UA	A7D	Fluoride, total	mg/L	12/09/15 - 07/15/24	30	3	CI around median	0.230	4.0	MCL/HBL	No Exceedance
12	UA	A7DR	Fluoride, total	mg/L	12/09/15 - 10/08/24	31	3	CI around median	0.230	4.0	MCL/HBL	No Exceedance
12	UA	A6D	Lead, total	mg/L	12/09/15 - 08/23/23	23	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
12	UA	A6DR	Lead, total	mg/L	12/09/15 - 11/17/23	24	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
12	UA	A7	Lead, total	mg/L	12/09/15 - 01/24/24	25	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
12	UA	A7R	Lead, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
12	UA	A7D	Lead, total	mg/L	12/09/15 - 07/15/24	27	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
12	UA	A7DR	Lead, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
12	UA	A6D	Lithium, total	mg/L	12/09/15 - 08/23/23	22	4	CB around linear reg	0.00613	0.04	MCL/HBL	No Exceedance
12	UA	A6DR	Lithium, total	mg/L	12/09/15 - 11/17/23	23	4	CB around linear reg	0.00551	0.04	MCL/HBL	No Exceedance
12	UA	A7	Lithium, total	mg/L	12/09/15 - 01/24/24	24	4	CB around linear reg	0.00570	0.04	MCL/HBL	No Exceedance
12	UA	A7R	Lithium, total	mg/L	12/09/15 - 04/15/24	25	4	CB around linear reg	0.00615	0.04	MCL/HBL	No Exceedance
12	UA	A7D	Lithium, total	mg/L	12/09/15 - 07/15/24	26	3	CB around linear reg	0.00605	0.04	MCL/HBL	No Exceedance
12	UA	A7DR	Lithium, total	mg/L	12/09/15 - 10/08/24	27	3	CB around linear reg	0.00605	0.04	MCL/HBL	No Exceedance
12	UA	A6D	Mercury, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
12	UA	A6DR	Mercury, total	mg/L	12/09/15 - 11/17/23	21	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
12	UA	A7	Mercury, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
12	UA	A7R	Mercury, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
12	UA	A7D	Mercury, total	mg/L	12/09/15 - 07/15/24	24	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
12	UA	A7DR	Mercury, total	mg/L	12/09/15 - 10/08/24	25	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
12	UA	A6D	Molybdenum, total	mg/L	12/09/15 - 08/23/23	25	0	CB around linear reg	0.0120	0.1	MCL/HBL	No Exceedance
12	UA	A6DR	Molybdenum, total	mg/L	12/09/15 - 11/17/23	26	0	CB around linear reg	0.0114	0.1	MCL/HBL	No Exceedance
12	UA	A7	Molybdenum, total	mg/L	12/09/15 - 01/24/24	27	0	CB around linear reg	0.0110	0.1	MCL/HBL	No Exceedance
12	UA	A7R	Molybdenum, total	mg/L	12/09/15 - 04/15/24	28	0	CB around linear reg	0.0102	0.1	MCL/HBL	No Exceedance
12	UA	A7D	Molybdenum, total	mg/L	12/09/15 - 07/15/24	29	0	CB around linear reg	0.00978	0.1	MCL/HBL	No Exceedance
12	UA	A7DR	Molybdenum, total	mg/L	12/09/15 - 10/08/24	30	0	CB around linear reg	0.00935	0.1	MCL/HBL	No Exceedance
12	UA	A6D	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around geomean	0.331	5	MCL/HBL	No Exceedance
12	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/17/23	22	0	CI around mean	0.477	5	MCL/HBL	No Exceedance
12	UA	A7	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around mean	0.466	5	MCL/HBL	No Exceedance
12	UA	A7R	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.354	5	MCL/HBL	No Exceedance
12	UA	A7D	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/15/24	25	0	CI around geomean	0.364	5	MCL/HBL	No Exceedance
12	UA	A7DR	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	26	0	CI around geomean	0.376	5	MCL/HBL	No Exceedance
12	UA	A6D	Selenium, total	mg/L	12/09/15 - 08/23/23	25	40	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
12	UA	A6DR	Selenium, total	mg/L	12/09/15 - 11/17/23	26	42	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
12	UA	A7	Selenium, total	mg/L	12/09/15 - 01/24/24	27	44	CI around median	0.00100	0.05	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
12	UA	A7R	Selenium, total	mg/L	12/09/15 - 04/15/24	28	46	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
12	UA	A7D	Selenium, total	mg/L	12/09/15 - 07/15/24	29	48	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
12	UA	A7DR	Selenium, total	mg/L	12/09/15 - 10/08/24	30	50	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
12	UA	A6D	Thallium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
12	UA	A6DR	Thallium, total	mg/L	12/09/15 - 11/17/23	18	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
12	UA	A7	Thallium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
12	UA	A7R	Thallium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
12	UA	A7D	Thallium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
12	UA	A7DR	Thallium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
13	UA	A6D	Antimony, total	mg/L	12/09/15 - 08/23/23	18	94	CI around median	0.00100	0.006	MCL/HBL	No Exceedance
13	UA	A6DR	Antimony, total	mg/L	12/09/15 - 11/17/23	19	94	CB around T-S line	0.00100	0.006	MCL/HBL	No Exceedance
13	UA	A7	Antimony, total	mg/L	12/09/15 - 01/24/24	20	95	CB around T-S line	0.00100	0.006	MCL/HBL	No Exceedance
13	UA	A7R	Antimony, total	mg/L	12/09/15 - 04/15/24	21	95	CB around T-S line	0.00100	0.006	MCL/HBL	No Exceedance
13	UA	A7D	Antimony, total	mg/L	12/09/15 - 07/15/24	22	95	CB around T-S line	0.00100	0.006	MCL/HBL	No Exceedance
13	UA	A7DR	Antimony, total	mg/L	12/09/15 - 10/08/24	23	95	CB around T-S line	0.00100	0.006	MCL/HBL	No Exceedance
13	UA	A6D	Arsenic, total	mg/L	12/09/15 - 08/23/23	23	95	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
13	UA	A6DR	Arsenic, total	mg/L	12/09/15 - 11/17/23	24	95	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
13	UA	A7	Arsenic, total	mg/L	12/09/15 - 01/24/24	25	96	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
13	UA	A7R	Arsenic, total	mg/L	12/09/15 - 04/15/24	26	96	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
13	UA	A7D	Arsenic, total	mg/L	12/09/15 - 07/15/24	27	96	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
13	UA	A7DR	Arsenic, total	mg/L	12/09/15 - 10/08/24	28	96	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
13	UA	A6D	Barium, total	mg/L	12/09/15 - 08/23/23	25	0	CI around mean	0.0427	2.0	MCL/HBL	No Exceedance
13	UA	A6DR	Barium, total	mg/L	12/09/15 - 11/17/23	26	0	CI around mean	0.0427	2.0	MCL/HBL	No Exceedance
13	UA	A7	Barium, total	mg/L	12/09/15 - 01/24/24	27	0	CI around mean	0.0430	2.0	MCL/HBL	No Exceedance
13	UA	A7R	Barium, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0433	2.0	MCL/HBL	No Exceedance
13	UA	A7D	Barium, total	mg/L	12/09/15 - 07/15/24	29	0	CI around mean	0.0433	2.0	MCL/HBL	No Exceedance
13	UA	A7DR	Barium, total	mg/L	12/09/15 - 10/08/24	30	0	CI around mean	0.0433	2.0	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
13	UA	A6D	Beryllium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
13	UA	A6DR	Beryllium, total	mg/L	12/09/15 - 11/17/23	18	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
13	UA	A7	Beryllium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
13	UA	A7R	Beryllium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
13	UA	A7D	Beryllium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
13	UA	A7DR	Beryllium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
13	UA	A6D	Cadmium, total	mg/L	12/09/15 - 08/23/23	27	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
13	UA	A6DR	Cadmium, total	mg/L	12/09/15 - 11/17/23	28	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
13	UA	A7	Cadmium, total	mg/L	12/09/15 - 01/24/24	29	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
13	UA	A7R	Cadmium, total	mg/L	12/09/15 - 04/15/24	30	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
13	UA	A7D	Cadmium, total	mg/L	12/09/15 - 07/15/24	31	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
13	UA	A7DR	Cadmium, total	mg/L	12/09/15 - 10/08/24	32	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
13	UA	A6D	Chromium, total	mg/L	12/09/15 - 08/23/23	23	82	CB around T-S line	0.00150	0.1	MCL/HBL	No Exceedance
13	UA	A6DR	Chromium, total	mg/L	12/09/15 - 11/17/23	24	83	CB around T-S line	0.00155	0.1	MCL/HBL	No Exceedance
13	UA	A7	Chromium, total	mg/L	12/09/15 - 01/24/24	25	84	CB around T-S line	0.00167	0.1	MCL/HBL	No Exceedance
13	UA	A7R	Chromium, total	mg/L	12/09/15 - 04/15/24	26	84	CB around T-S line	0.00171	0.1	MCL/HBL	No Exceedance
13	UA	A7D	Chromium, total	mg/L	12/09/15 - 07/15/24	27	85	CB around T-S line	0.00173	0.1	MCL/HBL	No Exceedance
13	UA	A7DR	Chromium, total	mg/L	12/09/15 - 10/08/24	28	85	CB around T-S line	0.00173	0.1	MCL/HBL	No Exceedance
13	UA	A6D	Cobalt, total	mg/L	12/09/15 - 08/23/23	21	100	All ND - Last	0.001	0.0385	Background	No Exceedance
13	UA	A6DR	Cobalt, total	mg/L	12/09/15 - 11/17/23	22	100	All ND - Last	0.001	0.0385	Background	No Exceedance
13	UA	A7	Cobalt, total	mg/L	12/09/15 - 01/24/24	23	100	All ND - Last	0.001	0.0385	Background	No Exceedance
13	UA	A7R	Cobalt, total	mg/L	12/09/15 - 04/15/24	24	100	All ND - Last	0.001	0.0385	Background	No Exceedance
13	UA	A7D	Cobalt, total	mg/L	12/09/15 - 07/15/24	25	100	All ND - Last	0.001	0.0385	Background	No Exceedance
13	UA	A7DR	Cobalt, total	mg/L	12/09/15 - 10/08/24	26	100	All ND - Last	0.001	0.0385	Background	No Exceedance
13	UA	A6D	Fluoride, total	mg/L	12/09/15 - 08/23/23	26	3	CI around median	0.200	4.0	MCL/HBL	No Exceedance
13	UA	A6DR	Fluoride, total	mg/L	12/09/15 - 11/17/23	27	3	CI around median	0.200	4.0	MCL/HBL	No Exceedance
13	UA	A7	Fluoride, total	mg/L	12/09/15 - 01/24/24	28	3	CI around median	0.200	4.0	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
13	UA	A7R	Fluoride, total	mg/L	12/09/15 - 04/15/24	29	3	CI around median	0.200	4.0	MCL/HBL	No Exceedance
13	UA	A7D	Fluoride, total	mg/L	12/09/15 - 07/15/24	30	3	CI around median	0.200	4.0	MCL/HBL	No Exceedance
13	UA	A7DR	Fluoride, total	mg/L	12/09/15 - 10/08/24	31	3	CI around median	0.200	4.0	MCL/HBL	No Exceedance
13	UA	A6D	Lead, total	mg/L	12/09/15 - 08/23/23	23	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
13	UA	A6DR	Lead, total	mg/L	12/09/15 - 11/17/23	24	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
13	UA	A7	Lead, total	mg/L	12/09/15 - 01/24/24	25	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
13	UA	A7R	Lead, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
13	UA	A7D	Lead, total	mg/L	12/09/15 - 07/15/24	27	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
13	UA	A7DR	Lead, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
13	UA	A6D	Lithium, total	mg/L	12/09/15 - 08/23/23	22	0	CI around mean	0.0171	0.04	MCL/HBL	No Exceedance
13	UA	A6DR	Lithium, total	mg/L	12/09/15 - 11/17/23	23	0	CI around mean	0.0164	0.04	MCL/HBL	No Exceedance
13	UA	A7	Lithium, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	0.0161	0.04	MCL/HBL	No Exceedance
13	UA	A7R	Lithium, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	0.0162	0.04	MCL/HBL	No Exceedance
13	UA	A7D	Lithium, total	mg/L	12/09/15 - 07/15/24	26	0	CI around mean	0.0159	0.04	MCL/HBL	No Exceedance
13	UA	A7DR	Lithium, total	mg/L	12/09/15 - 10/08/24	27	0	CB around linear reg	0.00953	0.04	MCL/HBL	No Exceedance
13	UA	A6D	Mercury, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
13	UA	A6DR	Mercury, total	mg/L	12/09/15 - 11/17/23	21	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
13	UA	A7	Mercury, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
13	UA	A7R	Mercury, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
13	UA	A7D	Mercury, total	mg/L	12/09/15 - 07/15/24	24	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
13	UA	A7DR	Mercury, total	mg/L	12/09/15 - 10/08/24	25	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
13	UA	A6D	Molybdenum, total	mg/L	12/09/15 - 08/23/23	25	0	CI around mean	0.0156	0.1	MCL/HBL	No Exceedance
13	UA	A6DR	Molybdenum, total	mg/L	12/09/15 - 11/17/23	26	0	CI around mean	0.0155	0.1	MCL/HBL	No Exceedance
13	UA	A7	Molybdenum, total	mg/L	12/09/15 - 01/24/24	27	0	CI around mean	0.0154	0.1	MCL/HBL	No Exceedance
13	UA	A7R	Molybdenum, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0152	0.1	MCL/HBL	No Exceedance
13	UA	A7D	Molybdenum, total	mg/L	12/09/15 - 07/15/24	29	0	CI around mean	0.0149	0.1	MCL/HBL	No Exceedance
13	UA	A7DR	Molybdenum, total	mg/L	12/09/15 - 10/08/24	30	0	CI around mean	0.0147	0.1	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
13	UA	A6D	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around mean	0.476	5	MCL/HBL	No Exceedance
13	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/17/23	22	0	CI around mean	0.483	5	MCL/HBL	No Exceedance
13	UA	A7	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around mean	0.492	5	MCL/HBL	No Exceedance
13	UA	A7R	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around mean	0.464	5	MCL/HBL	No Exceedance
13	UA	A7D	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/15/24	25	0	CI around mean	0.446	5	MCL/HBL	No Exceedance
13	UA	A7DR	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	26	0	CI around mean	0.461	5	MCL/HBL	No Exceedance
13	UA	A6D	Selenium, total	mg/L	12/09/15 - 08/23/23	25	20	CI around mean	0.00135	0.05	MCL/HBL	No Exceedance
13	UA	A6DR	Selenium, total	mg/L	12/09/15 - 11/17/23	26	23	CI around mean	0.00135	0.05	MCL/HBL	No Exceedance
13	UA	A7	Selenium, total	mg/L	12/09/15 - 01/24/24	27	25	CI around mean	0.00135	0.05	MCL/HBL	No Exceedance
13	UA	A7R	Selenium, total	mg/L	12/09/15 - 04/15/24	28	28	CI around mean	0.00134	0.05	MCL/HBL	No Exceedance
13	UA	A7D	Selenium, total	mg/L	12/09/15 - 07/15/24	29	31	CI around mean	0.00134	0.05	MCL/HBL	No Exceedance
13	UA	A7DR	Selenium, total	mg/L	12/09/15 - 10/08/24	30	33	CI around mean	0.00134	0.05	MCL/HBL	No Exceedance
13	UA	A6D	Thallium, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
13	UA	A6DR	Thallium, total	mg/L	12/09/15 - 11/17/23	18	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
13	UA	A7	Thallium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
13	UA	A7R	Thallium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
13	UA	A7D	Thallium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
13	UA	A7DR	Thallium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
46	UA	A6D	Antimony, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
46	UA	A6DR	Antimony, total	mg/L	12/09/15 - 11/20/23	18	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
46	UA	A7	Antimony, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
46	UA	A7R	Antimony, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
46	UA	A7D	Antimony, total	mg/L	12/09/15 - 08/06/24	21	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
46	UA	A7DR	Antimony, total	mg/L	12/09/15 - 10/09/24	22	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
46	UA	A6D	Arsenic, total	mg/L	12/09/15 - 08/23/23	19	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
46	UA	A6DR	Arsenic, total	mg/L	12/09/15 - 11/20/23	20	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
46	UA	A7	Arsenic, total	mg/L	12/09/15 - 01/24/24	21	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
46	UA	A7R	Arsenic, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
46	UA	A7D	Arsenic, total	mg/L	12/09/15 - 08/06/24	23	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
46	UA	A7DR	Arsenic, total	mg/L	12/09/15 - 10/09/24	24	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
46	UA	A6D	Barium, total	mg/L	12/09/15 - 08/23/23	21	0	CB around linear reg	0.0642	2.0	MCL/HBL	No Exceedance
46	UA	A6DR	Barium, total	mg/L	12/09/15 - 11/20/23	22	0	CB around linear reg	0.0649	2.0	MCL/HBL	No Exceedance
46	UA	A7	Barium, total	mg/L	12/09/15 - 01/24/24	23	0	CB around linear reg	0.0655	2.0	MCL/HBL	No Exceedance
46	UA	A7R	Barium, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0668	2.0	MCL/HBL	No Exceedance
46	UA	A7D	Barium, total	mg/L	12/09/15 - 08/06/24	25	0	CB around linear reg	0.0659	2.0	MCL/HBL	No Exceedance
46	UA	A7DR	Barium, total	mg/L	12/09/15 - 10/09/24	26	0	CB around linear reg	0.0668	2.0	MCL/HBL	No Exceedance
46	UA	A6D	Beryllium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
46	UA	A6DR	Beryllium, total	mg/L	12/09/15 - 11/20/23	17	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
46	UA	A7	Beryllium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
46	UA	A7R	Beryllium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
46	UA	A7D	Beryllium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
46	UA	A7DR	Beryllium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
46	UA	A6D	Cadmium, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
46	UA	A6DR	Cadmium, total	mg/L	12/09/15 - 11/20/23	21	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
46	UA	A7	Cadmium, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
46	UA	A7R	Cadmium, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
46	UA	A7D	Cadmium, total	mg/L	12/09/15 - 08/06/24	24	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
46	UA	A7DR	Cadmium, total	mg/L	12/09/15 - 10/09/24	25	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
46	UA	A6D	Chromium, total	mg/L	12/09/15 - 08/23/23	19	89	CB around T-S line	0.00149	0.1	MCL/HBL	No Exceedance
46	UA	A6DR	Chromium, total	mg/L	12/09/15 - 11/20/23	20	90	CB around T-S line	0.00150	0.1	MCL/HBL	No Exceedance
46	UA	A7	Chromium, total	mg/L	12/09/15 - 01/24/24	21	90	CB around T-S line	0.00162	0.1	MCL/HBL	No Exceedance
46	UA	A7R	Chromium, total	mg/L	12/09/15 - 04/15/24	22	90	CB around T-S line	0.00150	0.1	MCL/HBL	No Exceedance
46	UA	A7D	Chromium, total	mg/L	12/09/15 - 08/06/24	23	91	CB around T-S line	0.00167	0.1	MCL/HBL	No Exceedance
46	UA	A7DR	Chromium, total	mg/L	12/09/15 - 10/09/24	24	91	CB around T-S line	0.00172	0.1	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
46	UA	A6D	Cobalt, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.001	0.0385	Background	No Exceedance
46	UA	A6DR	Cobalt, total	mg/L	12/09/15 - 11/20/23	21	100	All ND - Last	0.001	0.0385	Background	No Exceedance
46	UA	A7	Cobalt, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.001	0.0385	Background	No Exceedance
46	UA	A7R	Cobalt, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.001	0.0385	Background	No Exceedance
46	UA	A7D	Cobalt, total	mg/L	12/09/15 - 08/06/24	24	100	All ND - Last	0.001	0.0385	Background	No Exceedance
46	UA	A7DR	Cobalt, total	mg/L	12/09/15 - 10/09/24	25	100	All ND - Last	0.001	0.0385	Background	No Exceedance
46	UA	A6D	Fluoride, total	mg/L	12/09/15 - 08/23/23	22	4	CI around median	0.240	4.0	MCL/HBL	No Exceedance
46	UA	A6DR	Fluoride, total	mg/L	12/09/15 - 11/20/23	23	4	CI around median	0.240	4.0	MCL/HBL	No Exceedance
46	UA	A7	Fluoride, total	mg/L	12/09/15 - 01/24/24	24	4	CI around median	0.240	4.0	MCL/HBL	No Exceedance
46	UA	A7R	Fluoride, total	mg/L	12/09/15 - 04/15/24	25	4	CI around median	0.230	4.0	MCL/HBL	No Exceedance
46	UA	A7D	Fluoride, total	mg/L	12/09/15 - 08/06/24	26	3	CI around median	0.240	4.0	MCL/HBL	No Exceedance
46	UA	A7DR	Fluoride, total	mg/L	12/09/15 - 10/09/24	27	3	CI around median	0.240	4.0	MCL/HBL	No Exceedance
46	UA	A6D	Lead, total	mg/L	12/09/15 - 08/23/23	19	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
46	UA	A6DR	Lead, total	mg/L	12/09/15 - 11/20/23	20	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
46	UA	A7	Lead, total	mg/L	12/09/15 - 01/24/24	21	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
46	UA	A7R	Lead, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
46	UA	A7D	Lead, total	mg/L	12/09/15 - 08/06/24	23	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
46	UA	A7DR	Lead, total	mg/L	12/09/15 - 10/09/24	24	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
46	UA	A6D	Lithium, total	mg/L	12/09/15 - 08/23/23	21	4	CI around median	0.00900	0.04	MCL/HBL	No Exceedance
46	UA	A6DR	Lithium, total	mg/L	12/09/15 - 11/20/23	22	4	CI around median	0.00890	0.04	MCL/HBL	No Exceedance
46	UA	A7	Lithium, total	mg/L	12/09/15 - 01/24/24	23	4	CI around median	0.00880	0.04	MCL/HBL	No Exceedance
46	UA	A7R	Lithium, total	mg/L	12/09/15 - 04/15/24	24	4	CI around median	0.00890	0.04	MCL/HBL	No Exceedance
46	UA	A7D	Lithium, total	mg/L	12/09/15 - 08/06/24	25	4	CI around median	0.00880	0.04	MCL/HBL	No Exceedance
46	UA	A7DR	Lithium, total	mg/L	12/09/15 - 10/09/24	26	3	CI around mean	0.00861	0.04	MCL/HBL	No Exceedance
46	UA	A6D	Mercury, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
46	UA	A6DR	Mercury, total	mg/L	12/09/15 - 11/20/23	17	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
46	UA	A7	Mercury, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
46	UA	A7R	Mercury, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
46	UA	A7D	Mercury, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
46	UA	A7DR	Mercury, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
46	UA	A6D	Molybdenum, total	mg/L	12/09/15 - 08/23/23	21	0	CB around T-S line	0.00879	0.1	MCL/HBL	No Exceedance
46	UA	A6DR	Molybdenum, total	mg/L	12/09/15 - 11/20/23	22	0	CB around T-S line	0.0104	0.1	MCL/HBL	No Exceedance
46	UA	A7	Molybdenum, total	mg/L	12/09/15 - 01/24/24	23	0	CB around T-S line	0.00957	0.1	MCL/HBL	No Exceedance
46	UA	A7R	Molybdenum, total	mg/L	12/09/15 - 04/15/24	24	0	CB around T-S line	0.0106	0.1	MCL/HBL	No Exceedance
46	UA	A7D	Molybdenum, total	mg/L	12/09/15 - 08/06/24	25	0	CB around T-S line	0.00891	0.1	MCL/HBL	No Exceedance
46	UA	A7DR	Molybdenum, total	mg/L	12/09/15 - 10/09/24	26	0	CB around T-S line	0.0107	0.1	MCL/HBL	No Exceedance
46	UA	A6D	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around geomean	0.295	5	MCL/HBL	No Exceedance
46	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/20/23	22	0	CI around geomean	0.304	5	MCL/HBL	No Exceedance
46	UA	A7	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around geomean	0.315	5	MCL/HBL	No Exceedance
46	UA	A7R	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.319	5	MCL/HBL	No Exceedance
46	UA	A7D	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/06/24	25	0	CI around geomean	0.299	5	MCL/HBL	No Exceedance
46	UA	A7DR	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/09/24	26	0	CI around geomean	0.306	5	MCL/HBL	No Exceedance
46	UA	A6D	Selenium, total	mg/L	12/09/15 - 08/23/23	21	57	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
46	UA	A6DR	Selenium, total	mg/L	12/09/15 - 11/20/23	22	59	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
46	UA	A7	Selenium, total	mg/L	12/09/15 - 01/24/24	23	60	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
46	UA	A7R	Selenium, total	mg/L	12/09/15 - 04/15/24	24	62	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
46	UA	A7D	Selenium, total	mg/L	12/09/15 - 08/06/24	25	64	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
46	UA	A7DR	Selenium, total	mg/L	12/09/15 - 10/09/24	26	65	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
46	UA	A6D	Thallium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
46	UA	A6DR	Thallium, total	mg/L	12/09/15 - 11/20/23	17	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
46	UA	A7	Thallium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
46	UA	A7R	Thallium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
46	UA	A7D	Thallium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
46	UA	A7DR	Thallium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
47	UA	A6D	Antimony, total	mg/L	12/09/15 - 08/23/23	17	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
47	UA	A6DR	Antimony, total	mg/L	12/09/15 - 11/17/23	18	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
47	UA	A7	Antimony, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
47	UA	A7R	Antimony, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
47	UA	A7D	Antimony, total	mg/L	12/09/15 - 08/06/24	21	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
47	UA	A7DR	Antimony, total	mg/L	12/09/15 - 10/09/24	22	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
47	UA	A6D	Arsenic, total	mg/L	12/09/15 - 08/23/23	19	94	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
47	UA	A6DR	Arsenic, total	mg/L	12/09/15 - 11/17/23	20	95	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
47	UA	A7	Arsenic, total	mg/L	12/09/15 - 01/24/24	21	95	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
47	UA	A7R	Arsenic, total	mg/L	12/09/15 - 04/15/24	22	95	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
47	UA	A7D	Arsenic, total	mg/L	12/09/15 - 08/06/24	23	95	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
47	UA	A7DR	Arsenic, total	mg/L	12/09/15 - 10/09/24	24	95	CI around median	0.00100	0.010	MCL/HBL	No Exceedance
47	UA	A6D	Barium, total	mg/L	12/09/15 - 08/23/23	21	0	CI around mean	0.0777	2.0	MCL/HBL	No Exceedance
47	UA	A6DR	Barium, total	mg/L	12/09/15 - 11/17/23	22	0	CI around mean	0.0783	2.0	MCL/HBL	No Exceedance
47	UA	A7	Barium, total	mg/L	12/09/15 - 01/24/24	23	0	CB around linear reg	0.0842	2.0	MCL/HBL	No Exceedance
47	UA	A7R	Barium, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0848	2.0	MCL/HBL	No Exceedance
47	UA	A7D	Barium, total	mg/L	12/09/15 - 08/06/24	25	0	CI around mean	0.0791	2.0	MCL/HBL	No Exceedance
47	UA	A7DR	Barium, total	mg/L	12/09/15 - 10/09/24	26	0	CI around mean	0.0791	2.0	MCL/HBL	No Exceedance
47	UA	A6D	Beryllium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
47	UA	A6DR	Beryllium, total	mg/L	12/09/15 - 11/17/23	17	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
47	UA	A7	Beryllium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
47	UA	A7R	Beryllium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
47	UA	A7D	Beryllium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
47	UA	A7DR	Beryllium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
47	UA	A6D	Cadmium, total	mg/L	12/09/15 - 08/23/23	20	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
47	UA	A6DR	Cadmium, total	mg/L	12/09/15 - 11/17/23	21	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
47	UA	A7	Cadmium, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
47	UA	A7R	Cadmium, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
47	UA	A7D	Cadmium, total	mg/L	12/09/15 - 08/06/24	24	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
47	UA	A7DR	Cadmium, total	mg/L	12/09/15 - 10/09/24	25	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
47	UA	A6D	Chromium, total	mg/L	12/09/15 - 08/23/23	19	94	CB around T-S line	0.00100	0.1	MCL/HBL	No Exceedance
47	UA	A6DR	Chromium, total	mg/L	12/09/15 - 11/17/23	20	95	CB around T-S line	0.00149	0.1	MCL/HBL	No Exceedance
47	UA	A7	Chromium, total	mg/L	12/09/15 - 01/24/24	21	95	CB around T-S line	0.00158	0.1	MCL/HBL	No Exceedance
47	UA	A7R	Chromium, total	mg/L	12/09/15 - 04/15/24	22	95	CB around T-S line	0.00128	0.1	MCL/HBL	No Exceedance
47	UA	A7D	Chromium, total	mg/L	12/09/15 - 08/06/24	23	95	CB around T-S line	0.00162	0.1	MCL/HBL	No Exceedance
47	UA	A7DR	Chromium, total	mg/L	12/09/15 - 10/09/24	24	95	CB around T-S line	0.00181	0.1	MCL/HBL	No Exceedance
47	UA	A6D	Cobalt, total	mg/L	12/09/15 - 08/23/23	20	80	CI around median	0.00100	0.0385	Background	No Exceedance
47	UA	A6DR	Cobalt, total	mg/L	12/09/15 - 11/17/23	21	80	CI around median	0.00100	0.0385	Background	No Exceedance
47	UA	A7	Cobalt, total	mg/L	12/09/15 - 01/24/24	22	81	CI around median	0.00100	0.0385	Background	No Exceedance
47	UA	A7R	Cobalt, total	mg/L	12/09/15 - 04/15/24	23	82	CI around median	0.00100	0.0385	Background	No Exceedance
47	UA	A7D	Cobalt, total	mg/L	12/09/15 - 08/06/24	24	83	CI around median	0.00100	0.0385	Background	No Exceedance
47	UA	A7DR	Cobalt, total	mg/L	12/09/15 - 10/09/24	25	84	CI around median	0.00100	0.0385	Background	No Exceedance
47	UA	A6D	Fluoride, total	mg/L	12/09/15 - 08/23/23	22	4	CB around T-S line	0.210	4.0	MCL/HBL	No Exceedance
47	UA	A6DR	Fluoride, total	mg/L	12/09/15 - 11/17/23	23	4	CB around T-S line	0.206	4.0	MCL/HBL	No Exceedance
47	UA	A7	Fluoride, total	mg/L	12/09/15 - 01/24/24	24	4	CB around T-S line	0.220	4.0	MCL/HBL	No Exceedance
47	UA	A7R	Fluoride, total	mg/L	12/09/15 - 04/15/24	25	4	CB around T-S line	0.217	4.0	MCL/HBL	No Exceedance
47	UA	A7D	Fluoride, total	mg/L	12/09/15 - 08/06/24	26	3	CB around T-S line	0.215	4.0	MCL/HBL	No Exceedance
47	UA	A7DR	Fluoride, total	mg/L	12/09/15 - 10/09/24	27	3	CB around T-S line	0.213	4.0	MCL/HBL	No Exceedance
47	UA	A6D	Lead, total	mg/L	12/09/15 - 08/23/23	19	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
47	UA	A6DR	Lead, total	mg/L	12/09/15 - 11/17/23	20	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
47	UA	A7	Lead, total	mg/L	12/09/15 - 01/24/24	21	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
47	UA	A7R	Lead, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
47	UA	A7D	Lead, total	mg/L	12/09/15 - 08/06/24	23	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
47	UA	A7DR	Lead, total	mg/L	12/09/15 - 10/09/24	24	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
47	UA	A6D	Lithium, total	mg/L	12/09/15 - 08/23/23	21	0	CI around mean	0.00870	0.04	MCL/HBL	No Exceedance
47	UA	A6DR	Lithium, total	mg/L	12/09/15 - 11/17/23	22	0	CI around mean	0.00839	0.04	MCL/HBL	No Exceedance
47	UA	A7	Lithium, total	mg/L	12/09/15 - 01/24/24	23	0	CI around mean	0.00832	0.04	MCL/HBL	No Exceedance
47	UA	A7R	Lithium, total	mg/L	12/09/15 - 04/15/24	24	0	CI around mean	0.00843	0.04	MCL/HBL	No Exceedance
47	UA	A7D	Lithium, total	mg/L	12/09/15 - 08/06/24	25	0	CI around mean	0.00849	0.04	MCL/HBL	No Exceedance
47	UA	A7DR	Lithium, total	mg/L	12/09/15 - 10/09/24	26	0	CI around mean	0.00855	0.04	MCL/HBL	No Exceedance
47	UA	A6D	Mercury, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
47	UA	A6DR	Mercury, total	mg/L	12/09/15 - 11/17/23	17	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
47	UA	A7	Mercury, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
47	UA	A7R	Mercury, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
47	UA	A7D	Mercury, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
47	UA	A7DR	Mercury, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
47	UA	A6D	Molybdenum, total	mg/L	12/09/15 - 08/23/23	21	0	CB around linear reg	0.0132	0.1	MCL/HBL	No Exceedance
47	UA	A6DR	Molybdenum, total	mg/L	12/09/15 - 11/17/23	22	0	CB around linear reg	0.0133	0.1	MCL/HBL	No Exceedance
47	UA	A7	Molybdenum, total	mg/L	12/09/15 - 01/24/24	23	0	CB around linear reg	0.0138	0.1	MCL/HBL	No Exceedance
47	UA	A7R	Molybdenum, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0137	0.1	MCL/HBL	No Exceedance
47	UA	A7D	Molybdenum, total	mg/L	12/09/15 - 08/06/24	25	0	CB around linear reg	0.0139	0.1	MCL/HBL	No Exceedance
47	UA	A7DR	Molybdenum, total	mg/L	12/09/15 - 10/09/24	26	0	CB around linear reg	0.0144	0.1	MCL/HBL	No Exceedance
47	UA	A6D	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/23/23	21	0	CI around mean	0.358	5	MCL/HBL	No Exceedance
47	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 11/17/23	22	0	CI around mean	0.387	5	MCL/HBL	No Exceedance
47	UA	A7	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around mean	0.384	5	MCL/HBL	No Exceedance
47	UA	A7R	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.317	5	MCL/HBL	No Exceedance
47	UA	A7D	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/06/24	25	0	CI around geomean	0.300	5	MCL/HBL	No Exceedance
47	UA	A7DR	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/09/24	26	0	CI around geomean	0.310	5	MCL/HBL	No Exceedance
47	UA	A6D	Selenium, total	mg/L	12/09/15 - 08/23/23	20	90	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
47	UA	A6DR	Selenium, total	mg/L	12/09/15 - 11/17/23	21	90	CB around T-S line	0.00100	0.05	MCL/HBL	No Exceedance
47	UA	A7	Selenium, total	mg/L	12/09/15 - 01/24/24	22	90	CB around T-S line	0.00100	0.05	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
47	UA	A7R	Selenium, total	mg/L	12/09/15 - 04/15/24	23	86	CB around T-S line	0.00100	0.05	MCL/HBL	No Exceedance
47	UA	A7D	Selenium, total	mg/L	12/09/15 - 08/06/24	24	87	CB around T-S line	0.00100	0.05	MCL/HBL	No Exceedance
47	UA	A7DR	Selenium, total	mg/L	12/09/15 - 10/09/24	25	88	CB around T-S line	0.00100	0.05	MCL/HBL	No Exceedance
47	UA	A6D	Thallium, total	mg/L	12/09/15 - 08/23/23	16	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
47	UA	A6DR	Thallium, total	mg/L	12/09/15 - 11/17/23	17	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
47	UA	A7	Thallium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
47	UA	A7R	Thallium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
47	UA	A7D	Thallium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
47	UA	A7DR	Thallium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
52	UA	A6D	Antimony, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
52	UA	A6DR	Antimony, total	mg/L	02/24/21 - 11/20/23	12	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
52	UA	A7	Antimony, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
52	UA	A7R	Antimony, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
52	UA	A7D	Antimony, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
52	UA	A7DR	Antimony, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
52	UA	A6D	Arsenic, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
52	UA	A6DR	Arsenic, total	mg/L	02/24/21 - 11/20/23	12	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
52	UA	A7	Arsenic, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
52	UA	A7R	Arsenic, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
52	UA	A7D	Arsenic, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
52	UA	A7DR	Arsenic, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
52	UA	A6D	Barium, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	0.0704	2.0	MCL/HBL	No Exceedance
52	UA	A6DR	Barium, total	mg/L	02/24/21 - 11/20/23	12	0	CI around mean	0.0721	2.0	MCL/HBL	No Exceedance
52	UA	A7	Barium, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.0734	2.0	MCL/HBL	No Exceedance
52	UA	A7R	Barium, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0738	2.0	MCL/HBL	No Exceedance
52	UA	A7D	Barium, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	0.0743	2.0	MCL/HBL	No Exceedance
52	UA	A7DR	Barium, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.0755	2.0	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
52	UA	A6D	Beryllium, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
52	UA	A6DR	Beryllium, total	mg/L	02/24/21 - 11/20/23	12	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
52	UA	A7	Beryllium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
52	UA	A7R	Beryllium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
52	UA	A7D	Beryllium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
52	UA	A7DR	Beryllium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
52	UA	A6D	Cadmium, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
52	UA	A6DR	Cadmium, total	mg/L	02/24/21 - 11/20/23	12	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
52	UA	A7	Cadmium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
52	UA	A7R	Cadmium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
52	UA	A7D	Cadmium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
52	UA	A7DR	Cadmium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
52	UA	A6D	Chromium, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
52	UA	A6DR	Chromium, total	mg/L	02/24/21 - 11/20/23	12	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
52	UA	A7	Chromium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
52	UA	A7R	Chromium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
52	UA	A7D	Chromium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
52	UA	A7DR	Chromium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
52	UA	A6D	Cobalt, total	mg/L	02/24/21 - 08/24/23	11	90	Most recent sample	0.00100	0.0385	Background	No Exceedance
52	UA	A6DR	Cobalt, total	mg/L	02/24/21 - 11/20/23	12	91	Most recent sample	0.00100	0.0385	Background	No Exceedance
52	UA	A7	Cobalt, total	mg/L	02/24/21 - 01/24/24	13	92	Most recent sample	0.00100	0.0385	Background	No Exceedance
52	UA	A7R	Cobalt, total	mg/L	02/24/21 - 04/16/24	14	92	Most recent sample	0.00100	0.0385	Background	No Exceedance
52	UA	A7D	Cobalt, total	mg/L	02/24/21 - 08/06/24	15	93	Most recent sample	0.00100	0.0385	Background	No Exceedance
52	UA	A7DR	Cobalt, total	mg/L	02/24/21 - 10/10/24	16	93	Most recent sample	0.00100	0.0385	Background	No Exceedance
52	UA	A6D	Fluoride, total	mg/L	02/24/21 - 08/24/23	11	9	CI around geomean	0.270	4.0	MCL/HBL	No Exceedance
52	UA	A6DR	Fluoride, total	mg/L	02/24/21 - 11/20/23	12	8	CI around geomean	0.262	4.0	MCL/HBL	No Exceedance
52	UA	A7	Fluoride, total	mg/L	02/24/21 - 01/24/24	13	7	CI around geomean	0.260	4.0	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
52	UA	A7R	Fluoride, total	mg/L	02/24/21 - 04/16/24	14	7	CI around geomean	0.264	4.0	MCL/HBL	No Exceedance
52	UA	A7D	Fluoride, total	mg/L	02/24/21 - 08/06/24	15	6	CI around geomean	0.264	4.0	MCL/HBL	No Exceedance
52	UA	A7DR	Fluoride, total	mg/L	02/24/21 - 10/10/24	16	6	CI around geomean	0.264	4.0	MCL/HBL	No Exceedance
52	UA	A6D	Lead, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
52	UA	A6DR	Lead, total	mg/L	02/24/21 - 11/20/23	12	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
52	UA	A7	Lead, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
52	UA	A7R	Lead, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
52	UA	A7D	Lead, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
52	UA	A7DR	Lead, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
52	UA	A6D	Lithium, total	mg/L	02/24/21 - 08/24/23	11	9	CI around mean	0.00532	0.04	MCL/HBL	No Exceedance
52	UA	A6DR	Lithium, total	mg/L	02/24/21 - 11/20/23	12	8	CI around mean	0.00558	0.04	MCL/HBL	No Exceedance
52	UA	A7	Lithium, total	mg/L	02/24/21 - 01/24/24	13	7	CI around mean	0.00566	0.04	MCL/HBL	No Exceedance
52	UA	A7R	Lithium, total	mg/L	02/24/21 - 04/16/24	14	14	CI around mean	0.00519	0.04	MCL/HBL	No Exceedance
52	UA	A7D	Lithium, total	mg/L	02/24/21 - 08/06/24	15	13	CI around mean	0.00543	0.04	MCL/HBL	No Exceedance
52	UA	A7DR	Lithium, total	mg/L	02/24/21 - 10/10/24	16	12	CI around mean	0.00564	0.04	MCL/HBL	No Exceedance
52	UA	A6D	Mercury, total	mg/L	02/24/21 - 08/24/23	11	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
52	UA	A6DR	Mercury, total	mg/L	02/24/21 - 11/20/23	12	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
52	UA	A7	Mercury, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
52	UA	A7R	Mercury, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
52	UA	A7D	Mercury, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
52	UA	A7DR	Mercury, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
52	UA	A6D	Molybdenum, total	mg/L	02/24/21 - 08/24/23	11	0	CI around mean	0.0102	0.1	MCL/HBL	No Exceedance
52	UA	A6DR	Molybdenum, total	mg/L	02/24/21 - 11/20/23	12	0	CI around mean	0.0103	0.1	MCL/HBL	No Exceedance
52	UA	A7	Molybdenum, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.0105	0.1	MCL/HBL	No Exceedance
52	UA	A7R	Molybdenum, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0107	0.1	MCL/HBL	No Exceedance
52	UA	A7D	Molybdenum, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	0.0109	0.1	MCL/HBL	No Exceedance
52	UA	A7DR	Molybdenum, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.0111	0.1	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
52	UA	A6D	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/24/23	11	0	CI around mean	0.360	5	MCL/HBL	No Exceedance
52	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 11/20/23	12	0	CI around mean	0.381	5	MCL/HBL	No Exceedance
52	UA	A7	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 01/24/24	13	0	CI around mean	0.378	5	MCL/HBL	No Exceedance
52	UA	A7R	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 04/16/24	14	0	CI around mean	0.429	5	MCL/HBL	No Exceedance
52	UA	A7D	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/06/24	15	0	CI around mean	0.413	5	MCL/HBL	No Exceedance
52	UA	A7DR	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 10/10/24	16	0	CI around mean	0.416	5	MCL/HBL	No Exceedance
52	UA	A6D	Selenium, total	mg/L	02/24/21 - 08/24/23	11	90	CI around median	0.00100	0.05	MCL/HBL	No Exceedance
52	UA	A6DR	Selenium, total	mg/L	02/24/21 - 11/20/23	12	91	CB around T-S line	0.00100	0.05	MCL/HBL	No Exceedance
52	UA	A7	Selenium, total	mg/L	02/24/21 - 01/24/24	13	92	CB around T-S line	0.00100	0.05	MCL/HBL	No Exceedance
52	UA	A7R	Selenium, total	mg/L	02/24/21 - 04/16/24	14	92	CB around T-S line	0.00100	0.05	MCL/HBL	No Exceedance
52	UA	A7D	Selenium, total	mg/L	02/24/21 - 08/06/24	15	93	CB around T-S line	0.00100	0.05	MCL/HBL	No Exceedance
52	UA	A7DR	Selenium, total	mg/L	02/24/21 - 10/10/24	16	93	CB around T-S line	0.00100	0.05	MCL/HBL	No Exceedance
52	UA	A6D	Thallium, total	mg/L	02/24/21 - 08/24/23	11	90	CI around median	0.00200	0.002	MCL/HBL	No Exceedance
52	UA	A6DR	Thallium, total	mg/L	02/24/21 - 11/20/23	12	91	CI around median	0.00200	0.002	MCL/HBL	No Exceedance
52	UA	A7	Thallium, total	mg/L	02/24/21 - 01/24/24	13	92	CI around median	0.00200	0.002	MCL/HBL	No Exceedance
52	UA	A7R	Thallium, total	mg/L	02/24/21 - 04/16/24	14	92	CI around median	0.00200	0.002	MCL/HBL	No Exceedance
52	UA	A7D	Thallium, total	mg/L	02/24/21 - 08/06/24	15	93	CI around median	0.00200	0.002	MCL/HBL	No Exceedance
52	UA	A7DR	Thallium, total	mg/L	02/24/21 - 10/10/24	16	93	CI around median	0.00200	0.002	MCL/HBL	No Exceedance
54	UA	A6D	Antimony, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
54	UA	A6DR	Antimony, total	mg/L	02/24/21 - 11/17/23	12	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
54	UA	A7	Antimony, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
54	UA	A7R	Antimony, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
54	UA	A7D	Antimony, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
54	UA	A7DR	Antimony, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
54	UA	A6D	Arsenic, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
54	UA	A6DR	Arsenic, total	mg/L	02/24/21 - 11/17/23	12	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
54	UA	A7	Arsenic, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
54	UA	A7R	Arsenic, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
54	UA	A7D	Arsenic, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
54	UA	A7DR	Arsenic, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.010	MCL/HBL	No Exceedance
54	UA	A6D	Barium, total	mg/L	02/24/21 - 08/23/23	11	0	CB around linear reg	0.0388	2.0	MCL/HBL	No Exceedance
54	UA	A6DR	Barium, total	mg/L	02/24/21 - 11/17/23	12	0	CB around linear reg	0.0376	2.0	MCL/HBL	No Exceedance
54	UA	A7	Barium, total	mg/L	02/24/21 - 01/24/24	13	0	CB around linear reg	0.0396	2.0	MCL/HBL	No Exceedance
54	UA	A7R	Barium, total	mg/L	02/24/21 - 04/16/24	14	0	CB around linear reg	0.0409	2.0	MCL/HBL	No Exceedance
54	UA	A7D	Barium, total	mg/L	02/24/21 - 08/06/24	15	0	CB around linear reg	0.0389	2.0	MCL/HBL	No Exceedance
54	UA	A7DR	Barium, total	mg/L	02/24/21 - 10/10/24	16	0	CB around linear reg	0.0397	2.0	MCL/HBL	No Exceedance
54	UA	A6D	Beryllium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
54	UA	A6DR	Beryllium, total	mg/L	02/24/21 - 11/17/23	12	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
54	UA	A7	Beryllium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
54	UA	A7R	Beryllium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
54	UA	A7D	Beryllium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
54	UA	A7DR	Beryllium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.004	MCL/HBL	No Exceedance
54	UA	A6D	Cadmium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
54	UA	A6DR	Cadmium, total	mg/L	02/24/21 - 11/17/23	12	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
54	UA	A7	Cadmium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
54	UA	A7R	Cadmium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
54	UA	A7D	Cadmium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
54	UA	A7DR	Cadmium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.005	MCL/HBL	No Exceedance
54	UA	A6D	Chromium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
54	UA	A6DR	Chromium, total	mg/L	02/24/21 - 11/17/23	12	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
54	UA	A7	Chromium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
54	UA	A7R	Chromium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
54	UA	A7D	Chromium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance
54	UA	A7DR	Chromium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.005	0.1	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
54	UA	A6D	Cobalt, total	mg/L	02/24/21 - 08/23/23	11	81	CI around median	0.00100	0.0385	Background	No Exceedance
54	UA	A6DR	Cobalt, total	mg/L	02/24/21 - 11/17/23	12	83	CI around median	0.00100	0.0385	Background	No Exceedance
54	UA	A7	Cobalt, total	mg/L	02/24/21 - 01/24/24	13	84	CI around median	0.00100	0.0385	Background	No Exceedance
54	UA	A7R	Cobalt, total	mg/L	02/24/21 - 04/16/24	14	85	CI around median	0.00100	0.0385	Background	No Exceedance
54	UA	A7D	Cobalt, total	mg/L	02/24/21 - 08/06/24	15	86	CI around median	0.00100	0.0385	Background	No Exceedance
54	UA	A7DR	Cobalt, total	mg/L	02/24/21 - 10/10/24	16	87	CI around median	0.00100	0.0385	Background	No Exceedance
54	UA	A6D	Fluoride, total	mg/L	02/24/21 - 08/23/23	11	9	CI around mean	0.284	4.0	MCL/HBL	No Exceedance
54	UA	A6DR	Fluoride, total	mg/L	02/24/21 - 11/17/23	12	8	CB around linear reg	0.179	4.0	MCL/HBL	No Exceedance
54	UA	A7	Fluoride, total	mg/L	02/24/21 - 01/24/24	13	7	CB around T-S line	-0.165	4.0	MCL/HBL	No Exceedance
54	UA	A7R	Fluoride, total	mg/L	02/24/21 - 04/16/24	14	7	CB around T-S line	-0.242	4.0	MCL/HBL	No Exceedance
54	UA	A7D	Fluoride, total	mg/L	02/24/21 - 08/06/24	15	6	CB around T-S line	0.0288	4.0	MCL/HBL	No Exceedance
54	UA	A7DR	Fluoride, total	mg/L	02/24/21 - 10/10/24	16	6	CB around T-S line	0.0699	4.0	MCL/HBL	No Exceedance
54	UA	A6D	Lead, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
54	UA	A6DR	Lead, total	mg/L	02/24/21 - 11/17/23	12	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
54	UA	A7	Lead, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
54	UA	A7R	Lead, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
54	UA	A7D	Lead, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
54	UA	A7DR	Lead, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.015	MCL/HBL	No Exceedance
54	UA	A6D	Lithium, total	mg/L	02/24/21 - 08/23/23	11	0	CB around linear reg	0.00769	0.04	MCL/HBL	No Exceedance
54	UA	A6DR	Lithium, total	mg/L	02/24/21 - 11/17/23	12	0	CB around linear reg	0.00812	0.04	MCL/HBL	No Exceedance
54	UA	A7	Lithium, total	mg/L	02/24/21 - 01/24/24	13	0	CB around linear reg	0.00869	0.04	MCL/HBL	No Exceedance
54	UA	A7R	Lithium, total	mg/L	02/24/21 - 04/16/24	14	0	CI around median	0.0120	0.04	MCL/HBL	No Exceedance
54	UA	A7D	Lithium, total	mg/L	02/24/21 - 08/06/24	15	0	CI around median	0.0110	0.04	MCL/HBL	No Exceedance
54	UA	A7DR	Lithium, total	mg/L	02/24/21 - 10/10/24	16	0	CB around T-S line	0.00491	0.04	MCL/HBL	No Exceedance
54	UA	A6D	Mercury, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
54	UA	A6DR	Mercury, total	mg/L	02/24/21 - 11/17/23	12	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
54	UA	A7	Mercury, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance

TABLE 6
DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS
2024 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event ID	Parameter	Unit	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
54	UA	A7R	Mercury, total	mg/L	02/24/21 - 04/16/24	14	92	CI around median	0.000200	0.002	MCL/HBL	No Exceedance
54	UA	A7D	Mercury, total	mg/L	02/24/21 - 08/06/24	15	93	CI around median	0.000200	0.002	MCL/HBL	No Exceedance
54	UA	A7DR	Mercury, total	mg/L	02/24/21 - 10/10/24	16	93	CI around median	0.000200	0.002	MCL/HBL	No Exceedance
54	UA	A6D	Molybdenum, total	mg/L	02/24/21 - 08/23/23	11	0	CI around mean	0.0199	0.1	MCL/HBL	No Exceedance
54	UA	A6DR	Molybdenum, total	mg/L	02/24/21 - 11/17/23	12	0	CI around mean	0.0208	0.1	MCL/HBL	No Exceedance
54	UA	A7	Molybdenum, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.0214	0.1	MCL/HBL	No Exceedance
54	UA	A7R	Molybdenum, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0217	0.1	MCL/HBL	No Exceedance
54	UA	A7D	Molybdenum, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	0.0220	0.1	MCL/HBL	No Exceedance
54	UA	A7DR	Molybdenum, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.0224	0.1	MCL/HBL	No Exceedance
54	UA	A6D	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/23/23	11	0	CI around mean	0.0940	5	MCL/HBL	No Exceedance
54	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 11/17/23	12	0	CI around mean	0.132	5	MCL/HBL	No Exceedance
54	UA	A7	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 01/24/24	13	0	CI around geomean	0.109	5	MCL/HBL	No Exceedance
54	UA	A7R	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 04/16/24	14	0	CI around mean	0.187	5	MCL/HBL	No Exceedance
54	UA	A7D	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/06/24	15	0	CI around geomean	0.123	5	MCL/HBL	No Exceedance
54	UA	A7DR	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 10/10/24	16	0	CI around geomean	0.123	5	MCL/HBL	No Exceedance
54	UA	A6D	Selenium, total	mg/L	02/24/21 - 08/23/23	11	45	CI around mean	0.00104	0.05	MCL/HBL	No Exceedance
54	UA	A6DR	Selenium, total	mg/L	02/24/21 - 11/17/23	12	50	CB around linear reg	0.00148	0.05	MCL/HBL	No Exceedance
54	UA	A7	Selenium, total	mg/L	02/24/21 - 01/24/24	13	53	CB around T-S line	0.00151	0.05	MCL/HBL	No Exceedance
54	UA	A7R	Selenium, total	mg/L	02/24/21 - 04/16/24	14	50	CB around linear reg	0.00195	0.05	MCL/HBL	No Exceedance
54	UA	A7D	Selenium, total	mg/L	02/24/21 - 08/06/24	15	53	CB around T-S line	0.00179	0.05	MCL/HBL	No Exceedance
54	UA	A7DR	Selenium, total	mg/L	02/24/21 - 10/10/24	16	56	CB around T-S line	0.00194	0.05	MCL/HBL	No Exceedance
54	UA	A6D	Thallium, total	mg/L	02/24/21 - 08/23/23	11	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
54	UA	A6DR	Thallium, total	mg/L	02/24/21 - 11/17/23	12	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
54	UA	A7	Thallium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
54	UA	A7R	Thallium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
54	UA	A7D	Thallium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance
54	UA	A7DR	Thallium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.002	0.002	MCL/HBL	No Exceedance

Notes:
Event IDs:
- A6D = Quarter 3, 2023 Assessment Monitoring sampling event
- A6DR = Quarter 4, 2023 Assessment Monitoring resampling event
- A7 = Quarter 1, 2024 Assessment Monitoring sampling event
- A7R = Quarter 2, 2024 Assessment Monitoring resampling event
- A7D = Quarter 3, 2024 Assessment Monitoring sampling event
- A7DR = Quarter 4, 2024 Assessment Monitoring resampling event

HSU = hydrostratigraphic unit:
- UA = Uppermost Aquifer

ID = identification
ND = non-detect
mg/L = milligrams per liter
pCi/L = picocuries per liter
Statistically Significant Level (SSL) Type:
- No Exceedance: No exceedance of the GWPS.

GWPS = Groundwater Protection Standard
GWPS Source:
- Background = background concentration
- MCL/HBL = maximum contaminant level/health-based level

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 linear reg = Confidence band around linear regression
- CB around T-S line = Confidence band around Thiel-Sen line
- CI around geomean = Confidence interval around the geometric mean
- CI around mean = Confidence interval around the mean
- CI around median = Confidence interval around the median
- Most recent sample = Result for the most recently collected sample used due to insufficient data.

Statistical Result = calculated in accordance with Statistical Analysis Plan using constituent concentrations observed at monitoring well during all sampling events within the specified date range

FIGURES



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- STAFF GAUGE, CCR UNIT
- STAFF GAUGE, RIVER
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

0 175 350
Feet

MONITORING WELL LOCATION MAP

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
EAST ASH POND
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\222285\MXD\GMP\Hennepin\EAP_803\Figure 2-1. Expanded Part 257 GW Monitoring Well Network.mxd
PROJECT: 169000XXXX | DATED: 3/1/2023 | DESIGNER: galarnmc



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

NOTES:
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT.

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP JANUARY 22-23, 2024

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
EAST ASH POND
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\2202285\MXD\GW_Contours\Round_2024\Hennepin\EAP_803\HEN_803_EAP_2024.aprx\HEN 803 EAP Pot Surface 20240122

PROJECT: 169000XXXX | DATED: 3/28/2024 | DESIGNER: GALARNMC



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

NOTES:
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT.

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP
APRIL 15-16, 2024

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
EAST ASH POND
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\220286\MXD\GW_Contours\Round_2024\Hennepin\EAP_803\HEN_803_EAP_2024.aprx\HEN 803 EAP Pot Surface 20240415

PROJECT: 169000XXXX | DATED: 8/1/2024 | DESIGNER: GALARNMC



COMPLIANCE MONITORING WELL
BACKGROUND MONITORING WELL
MONITORING WELL
PORE WATER WELL
STAFF GAGE, CCR UNIT
GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
INFERRED GROUNDWATER ELEVATION CONTOUR
GROUNDWATER FLOW DIRECTION
REGULATED UNIT (SUBJECT UNIT)
SITE FEATURE
LIMITS OF FINAL COVER
PROPERTY BOUNDARY

NOTES:
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT.

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP JULY 15, 2024

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
EAST ASH POND
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

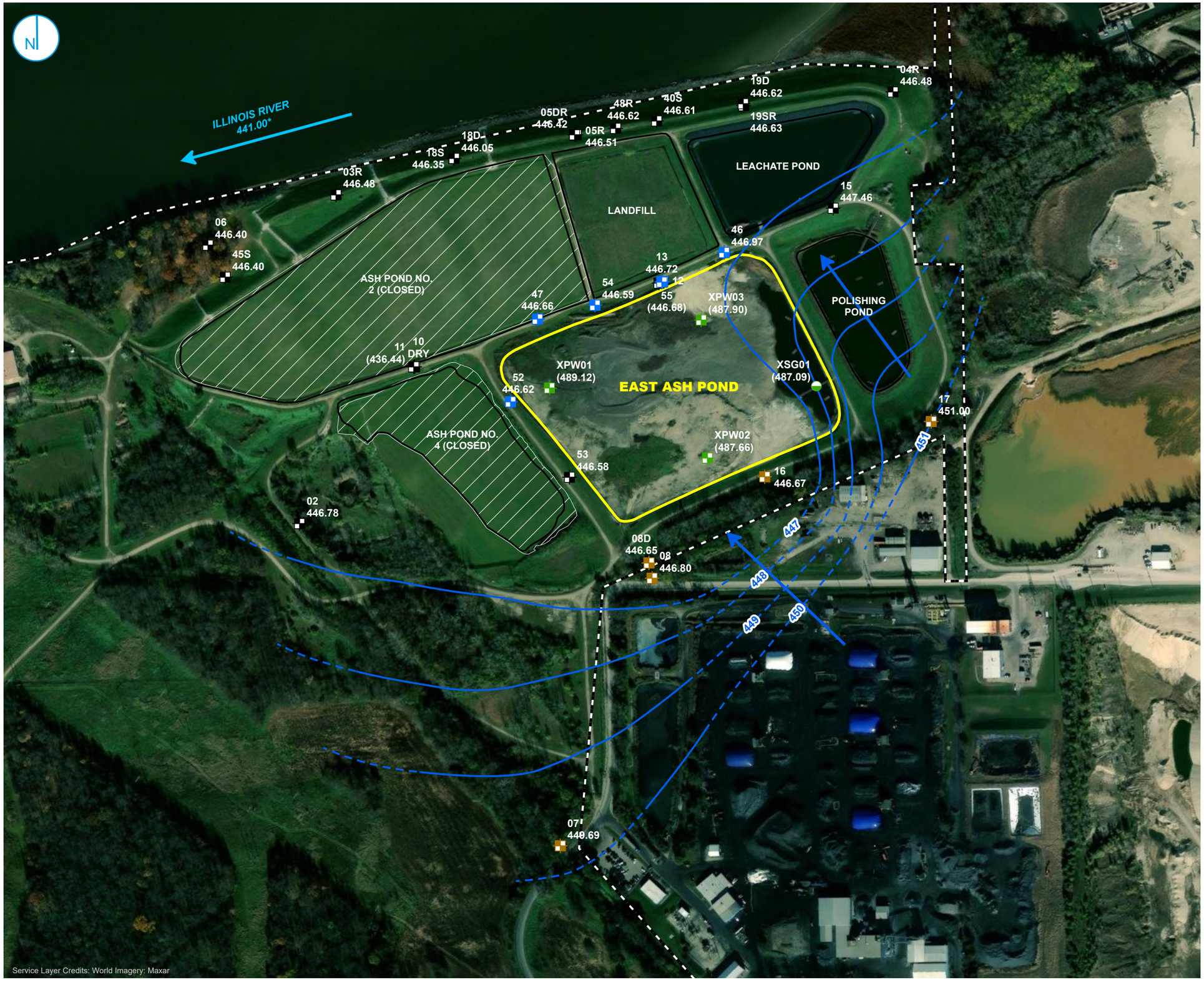
FIGURE 4

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\220286\MXD\GW_Contours\Round_2024\Hennepin\EAP_803\HEN_803_EAP_2024.aprx\HEN 803 EAP Pot Surface 20240715

PROJECT: 169000XXXX | DATED: 9/9/2024 | DESIGNER: GALARNMC



COMPLIANCE MONITORING WELL
BACKGROUND MONITORING WELL
MONITORING WELL
PORE WATER WELL
STAFF GAGE, CCR UNIT
GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
INFERRED GROUNDWATER ELEVATION CONTOUR
GROUNDWATER FLOW DIRECTION
REGULATED UNIT (SUBJECT UNIT)
SITE FEATURE
LIMITS OF FINAL COVER
PROPERTY BOUNDARY

NOTES:
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
*ILLINOIS RIVER ELEVATION OBTAINED FROM STAFF GAGE SG02, LOCATED AT THE HENNEPIN POWER PLANT.

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP OCTOBER 7, 2024

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
EAST ASH POND
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 5

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

Y:\Mapping\Projects\220286\MXD\GW_Contours\Round_2024\Hennepin\EAP_803\HEN_803_EAP_2024.aprx\HEN 803 EAP Pot Surface 20241007

PROJECT: 169000XXXX | DATED: 12/2/2024 | DESIGNER: PWYSIATKO

APPENDICES

APPENDIX A
LABORATORY REPORTS AND FIELD DATA SHEETS

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 01/04/24 16:30:47 Revision 1

JOB DESCRIPTION

HEN-23Q4
HEN_257_803

JOB NUMBER

500-242591-15

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

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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Case Narrative

Client: Vistra Energy Corp
Project: HEN-23Q4

Job ID: 500-242591-15

Job ID: 500-242591-15 — Eurofins Chicago

Job Narrative
500-242591-15

Revision
The report being provided is a revision of the original report sent on 12/27/23. The report (revision 1) is being revised due to: Client revision requests:
Add HEN_13 turbidity per revised purge forms, attach revised purge forms.

Receipt
The samples were received on 11/15/2023 11:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 15 coolers at receipt time were 1.8º C, 2.3º C, 2.4º C, 3.0º C, 3.2º C, 4.2º C, 4.4º C, 4.6º C, 4.6º C, 4.9º C, 4.9º C, 5.0º C, 5.0º C, 5.6º C and 5.7º C.

Field Service / Mobile Lab
Method Field Sampling: Turbidity value not received for last reading, which was the sample collection time. Affected sample: HEN_13 (500-242591-25)

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 747971 was above the upper control limit for Be. Sample results were non-detects, and have been reported as qualified data.

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

General Chemistry
Method 300.0: The matrix spike (MS) recoveries for analytical batch 500-743297 were 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.

Detection Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_54 — Lab Sample ID: 500-242591-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.012		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00031	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.048		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.41	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	72		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0012	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Magnesium	27		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.031		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	56		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	74		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	75		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	490		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.28		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.1				ft	1		Field Sampling	Total/NA
Field pH	7.36				SU	1		Field Sampling	Total/NA
Field Temperature	16.47				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	210.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.57				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4702.0				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.19				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_47 — Lab Sample ID: 500-242591-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0050		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	0.089		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.36	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	94		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	28		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.024		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	58		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	83		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	68		5.0	1.0	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_47 (Continued) — Lab Sample ID: 500-242591-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	290		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	550		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.28		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	55.52				ft	1		Field Sampling	Total/NA
Field pH	7.07				SU	1		Field Sampling	Total/NA
Field Temperature	17.87				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	189.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.56				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1043.6				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.00				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_12 — Lab Sample ID: 500-242591-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0054		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00044	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.059		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.13	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	77		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	30		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.015		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.1		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	49		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	72		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	63		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	260		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	470		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)	51.08				ft	1		Field Sampling	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Temperature	18.67				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	140.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.30				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4713.8				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.04				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_13 — Lab Sample ID: 500-242591-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0084		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00052	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.044		0.0025	0.00073	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_13 (Continued) — Lab Sample ID: 500-242591-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.20	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	76		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	30		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.013		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.0		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	47		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	69		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	63		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	260		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	500		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.20		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.05				ft	1		Field Sampling	Total/NA
Field pH	7.46				SU	1		Field Sampling	Total/NA
Field Temperature	17.76				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	168.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.42				mg/L	1		Field Sampling	Total/NA
Specific Conductance	922.27				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.26				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08&D — Lab Sample ID: 500-242591-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0092		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00031	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.10		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.071	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00049	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	180		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0017	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0041		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00035	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	52		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	3.5		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	150		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	250		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	130		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	540		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1300		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_08&D (Continued) — Lab Sample ID: 500-242591-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.097	J	0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.05				ft	1		Field Sampling	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA
Field Temperature	13.63				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	152.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.12				mg/L	1		Field Sampling	Total/NA
Specific Conductance	11218				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.86				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08 — Lab Sample ID: 500-242591-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.011		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00050	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.14		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.095	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00050		0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	200		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0046		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00066		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	54		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	9.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	150		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	260		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	120		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	520		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.089	J	0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.85				ft	1		Field Sampling	Total/NA
Field pH	6.89				SU	1		Field Sampling	Total/NA
Field Temperature	13.63				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	168.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.36				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2132.0				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.03				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08_FD — Lab Sample ID: 500-242591-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.010		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00040	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Client Sample ID: HEN_08_FD (Continued) — Lab Sample ID: 500-242591-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.11		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.091	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00035	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	180		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0041		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00049	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	48		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	8.5		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	130		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	260		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	120		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	520		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	0.087	J	0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.85				ft	1		Field Sampling	Total/NA
Field pH	6.89				SU	1		Field Sampling	Total/NA
Field Temperature	13.63				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	168.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.36				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2132.0				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.03				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_17 — Lab Sample ID: 500-242591-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0023	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00041	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.090		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.11	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	74	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	30		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0052		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	63	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	90		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	62		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	230		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	500		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_17 (Continued) — Lab Sample ID: 500-242591-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.21		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	55.35				ft	1		Field Sampling	Total/NA
Field pH	7.34				SU	1		Field Sampling	Total/NA
Field Temperature	17.89				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	130.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.69				mg/L	1		Field Sampling	Total/NA
Specific Conductance	4723.0				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.05				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16 — Lab Sample ID: 500-242591-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0058		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00051	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.073		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.079	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	82	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	28		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0061		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	56	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	79		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	64		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	230		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	420		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.22		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.42				ft	1		Field Sampling	Total/NA
Field pH	7.34				SU	1		Field Sampling	Total/NA
Field Temperature	15.24				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	151.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.98				mg/L	1		Field Sampling	Total/NA
Specific Conductance	915.25				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.14				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_46 — Lab Sample ID: 500-242591-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0089		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00049	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.071		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.12	B	0.050	0.013	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_46 (Continued) — Lab Sample ID: 500-242591-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	79	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	31		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.018		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	50	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	70		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	61		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	490		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.22		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.58				ft	1		Field Sampling	Total/NA
Field pH	7.27				SU	1		Field Sampling	Total/NA
Field Temperature	18.16				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	221.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.95				mg/L	1		Field Sampling	Total/NA
Specific Conductance	442.66				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.24				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_52 — Lab Sample ID: 500-242591-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0085		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00047	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.097		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.21	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	94	B	0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	31		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.011		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	5.1		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	64	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	85		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	66		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	260		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	520		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.23		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.93				ft	1		Field Sampling	Total/NA
Field pH	7.09				SU	1		Field Sampling	Total/NA
Field Temperature	18.47				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	198.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.30				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1129.6				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_52 (Continued) — Lab Sample ID: 500-242591-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	1.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_07 — Lab Sample ID: 500-242591-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0098		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00043	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.13		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.038	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	120	B	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	0.012		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	42		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	3.1		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	64	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	86		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	56		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	370		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	690		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.12		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	68.55				ft	1		Field Sampling	Total/NA
Field pH	6.96				SU	1		Field Sampling	Total/NA
Field Temperature	11.42				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	171.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.01				mg/L	1		Field Sampling	Total/NA
Specific Conductance	7297.8				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.64				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_55 — Lab Sample ID: 500-242591-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	51.26				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_XSG01 — Lab Sample ID: 500-242591-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	10.28				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_YSG_ILRIVER — Lab Sample ID: 500-242591-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	441.0				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

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: HEN-23Q4

Job ID: 500-242591-15
SDG: HEN_257_803

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-242591-22	HEN_54	Water	11/17/23 09:02	11/17/23 18:00
500-242591-23	HEN_47	Water	11/17/23 09:33	11/17/23 18:00
500-242591-24	HEN_12	Water	11/17/23 10:19	11/17/23 18:00
500-242591-25	HEN_13	Water	11/17/23 10:21	11/17/23 18:00
500-242591-26	HEN_08&D	Water	11/17/23 12:31	11/17/23 18:00
500-242591-27	HEN_08	Water	11/17/23 12:32	11/17/23 18:00
500-242591-28	HEN_08_FD	Water	11/17/23 12:37	11/17/23 18:00
500-242591-30	HEN_17	Water	11/17/23 14:17	11/17/23 18:00
500-242591-31	HEN_16	Water	11/17/23 14:29	11/17/23 18:00
500-242591-35	HEN_46	Water	11/20/23 09:13	11/21/23 08:06
500-242591-37	HEN_52	Water	11/20/23 10:18	11/21/23 08:06
500-242591-38	HEN_07	Water	11/20/23 13:12	11/21/23 08:06
500-242591-51	HEN_55	Water	11/13/23 08:46	12/06/23 07:24
500-242591-55	HEN_XSG01	Water	11/13/23 16:18	12/06/23 07:24
500-242591-56	HEN_YSG_ILRIVER	Water	11/13/23 00:00	12/06/23 07:24

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_54
Date Collected: 11/17/23 09:02
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.012**		0.0050	0.0020	mg/L		11/20/23 17:49	11/21/23 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/21/23 15:33	1
Arsenic	**0.00031**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/21/23 15:33	1
Barium	**0.048**		0.0025	0.00073	mg/L		12/06/23 09:21	12/21/23 15:33	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 15:33	1
Boron	**0.41**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 11:19	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/06/23 09:21	12/21/23 15:33	1
Calcium	**72**		0.20	0.044	mg/L		12/06/23 09:21	12/21/23 15:33	1
Chromium	**0.0012**	**J**	0.0050	0.0011	mg/L		12/06/23 09:21	12/21/23 15:33	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/06/23 09:21	12/21/23 15:33	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/06/23 09:21	12/21/23 15:33	1
Magnesium	**27**		0.20	0.049	mg/L		12/06/23 09:21	12/21/23 15:33	1
Molybdenum	**0.031**		0.0050	0.0025	mg/L		12/06/23 09:21	12/21/23 15:33	1
Potassium	**4.3**		0.50	0.11	mg/L		12/06/23 09:21	12/21/23 15:33	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 15:33	1
Sodium	**56**		0.20	0.077	mg/L		12/06/23 09:21	12/21/23 15:33	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/21/23 15:33	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**74**		5.0	0.58	mg/L			11/21/23 15:11	5
Sulfate (EPA 300.0)	**75**		5.0	1.0	mg/L			11/21/23 15:11	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			11/21/23 14:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/21/23 14:26	1
Total Dissolved Solids (SM 2540C)	**490**		10	4.3	mg/L			11/19/23 23:18	1
Fluoride (SM 4500 F C)	**0.28**		0.10	0.056	mg/L			12/01/23 16:03	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.1**				ft			11/17/23 09:02	1
Field pH	**7.36**				SU			11/17/23 09:02	1
Field Temperature	**16.47**				Degrees C			11/17/23 09:02	1
Oxidation Reduction Potential	**210.6**				millivolts			11/17/23 09:02	1
Oxygen, Dissolved	**0.57**				mg/L			11/17/23 09:02	1
Specific Conductance	**4702.0**				umhos/cm			11/17/23 09:02	1
Turbidity	**3.19**				NTU			11/17/23 09:02	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_47
Date Collected: 11/17/23 09:33
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-23
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0050**		0.0050	0.0020	mg/L		11/22/23 17:00	11/27/23 13:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/21/23 15:36	1
Arsenic	**0.00026**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/21/23 15:36	1
Barium	**0.089**		0.0025	0.00073	mg/L		12/06/23 09:21	12/21/23 15:36	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 15:36	1
Boron	**0.36**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 11:23	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/06/23 09:21	12/21/23 15:36	1
Calcium	**94**		0.20	0.044	mg/L		12/06/23 09:21	12/21/23 15:36	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/06/23 09:21	12/21/23 15:36	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/06/23 09:21	12/21/23 15:36	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/06/23 09:21	12/21/23 15:36	1
Magnesium	**28**		0.20	0.049	mg/L		12/06/23 09:21	12/21/23 15:36	1
Molybdenum	**0.024**		0.0050	0.0025	mg/L		12/06/23 09:21	12/21/23 15:36	1
Potassium	**4.6**		0.50	0.11	mg/L		12/06/23 09:21	12/21/23 15:36	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 15:36	1
Sodium	**58**		0.20	0.077	mg/L		12/06/23 09:21	12/21/23 15:36	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/21/23 15:36	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**83**		5.0	0.58	mg/L			11/21/23 15:27	5
Sulfate (EPA 300.0)	**68**		5.0	1.0	mg/L			11/21/23 15:27	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**290**		5.0	3.7	mg/L			11/21/23 15:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/21/23 15:00	1
Total Dissolved Solids (SM 2540C)	**550**		10	4.3	mg/L			11/19/23 23:20	1
Fluoride (SM 4500 F C)	**0.28**		0.10	0.056	mg/L			12/01/23 16:08	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**55.52**				ft			11/17/23 09:33	1
Field pH	**7.07**				SU			11/17/23 09:33	1
Field Temperature	**17.87**				Degrees C			11/17/23 09:33	1
Oxidation Reduction Potential	**189.7**				millivolts			11/17/23 09:33	1
Oxygen, Dissolved	**1.56**				mg/L			11/17/23 09:33	1
Specific Conductance	**1043.6**				umhos/cm			11/17/23 09:33	1
Turbidity	**0.00**				NTU			11/17/23 09:33	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_12

Date Collected: 11/17/23 10:19
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-24

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0054**		0.0050	0.0020	mg/L		11/22/23 17:00	11/27/23 13:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/21/23 15:40	1
Arsenic	**0.00044**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/21/23 15:40	1
Barium	**0.059**		0.0025	0.00073	mg/L		12/06/23 09:21	12/21/23 15:40	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 15:40	1
Boron	**0.13**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 11:27	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/06/23 09:21	12/21/23 15:40	1
Calcium	**77**		0.20	0.044	mg/L		12/06/23 09:21	12/21/23 15:40	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/06/23 09:21	12/21/23 15:40	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/06/23 09:21	12/21/23 15:40	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/06/23 09:21	12/21/23 15:40	1
Magnesium	**30**		0.20	0.049	mg/L		12/06/23 09:21	12/21/23 15:40	1
Molybdenum	**0.015**		0.0050	0.0025	mg/L		12/06/23 09:21	12/21/23 15:40	1
Potassium	**4.1**		0.50	0.11	mg/L		12/06/23 09:21	12/21/23 15:40	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 15:40	1
Sodium	**49**		0.20	0.077	mg/L		12/06/23 09:21	12/21/23 15:40	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/21/23 15:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**72**		5.0	0.58	mg/L			11/21/23 15:42	5
Sulfate (EPA 300.0)	**63**		5.0	1.0	mg/L			11/21/23 15:42	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**		5.0	3.7	mg/L			11/21/23 15:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/21/23 15:09	1
Total Dissolved Solids (SM 2540C)	**470**		10	4.3	mg/L			11/19/23 23:23	1
Fluoride (SM 4500 F C)	**0.21**		0.10	0.056	mg/L			12/01/23 16:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.08**				ft			11/17/23 10:19	1
Field pH	**7.35**				SU			11/17/23 10:19	1
Field Temperature	**18.67**				Degrees C			11/17/23 10:19	1
Oxidation Reduction Potential	**140.1**				millivolts			11/17/23 10:19	1
Oxygen, Dissolved	**2.30**				mg/L			11/17/23 10:19	1
Specific Conductance	**4713.8**				umhos/cm			11/17/23 10:19	1
Turbidity	**1.04**				NTU			11/17/23 10:19	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_13
Date Collected: 11/17/23 10:21
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-25
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0084**		0.0050	0.0020	mg/L		11/22/23 17:00	11/27/23 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/21/23 15:44	1
Arsenic	**0.00052**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/21/23 15:44	1
Barium	**0.044**		0.0025	0.00073	mg/L		12/06/23 09:21	12/21/23 15:44	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 15:44	1
Boron	**0.20**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 11:31	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/06/23 09:21	12/21/23 15:44	1
Calcium	**76**		0.20	0.044	mg/L		12/06/23 09:21	12/21/23 15:44	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/06/23 09:21	12/21/23 15:44	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/06/23 09:21	12/21/23 15:44	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/06/23 09:21	12/21/23 15:44	1
Magnesium	**30**		0.20	0.049	mg/L		12/06/23 09:21	12/21/23 15:44	1
Molybdenum	**0.013**		0.0050	0.0025	mg/L		12/06/23 09:21	12/21/23 15:44	1
Potassium	**4.0**		0.50	0.11	mg/L		12/06/23 09:21	12/21/23 15:44	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 15:44	1
Sodium	**47**		0.20	0.077	mg/L		12/06/23 09:21	12/21/23 15:44	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/21/23 15:44	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**69**		5.0	0.58	mg/L			11/21/23 15:57	5
Sulfate (EPA 300.0)	**63**		5.0	1.0	mg/L			11/21/23 15:57	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**		5.0	3.7	mg/L			11/21/23 15:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/21/23 15:18	1
Total Dissolved Solids (SM 2540C)	**500**		10	4.3	mg/L			11/19/23 23:26	1
Fluoride (SM 4500 F C)	**0.20**		0.10	0.056	mg/L			12/06/23 16:07	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.05**				ft			11/17/23 10:21	1
Field pH	**7.46**				SU			11/17/23 10:21	1
Field Temperature	**17.76**				Degrees C			11/17/23 10:21	1
Oxidation Reduction Potential	**168.3**				millivolts			11/17/23 10:21	1
Oxygen, Dissolved	**1.42**				mg/L			11/17/23 10:21	1
Specific Conductance	**922.27**				umhos/cm			11/17/23 10:21	1
Turbidity	**0.26**				NTU			11/17/23 10:21	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_08&D

Date Collected: 11/17/23 12:31
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-26

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0092**		0.0050	0.0020	mg/L		11/22/23 17:00	11/27/23 13:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/21/23 15:48	1
Arsenic	**0.00031**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/21/23 15:48	1
Barium	**0.10**		0.0025	0.00073	mg/L		12/06/23 09:21	12/21/23 15:48	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 15:48	1
Boron	**0.071**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 11:34	1
Cadmium	**0.00049**	**J**	0.00050	0.00017	mg/L		12/06/23 09:21	12/21/23 15:48	1
Calcium	**180**		0.20	0.044	mg/L		12/06/23 09:21	12/21/23 15:48	1
Chromium	**0.0017**	**J**	0.0050	0.0011	mg/L		12/06/23 09:21	12/21/23 15:48	1
Cobalt	**0.0041**		0.0010	0.00040	mg/L		12/06/23 09:21	12/21/23 15:48	1
Lead	**0.00035**	**J**	0.00050	0.00019	mg/L		12/06/23 09:21	12/21/23 15:48	1
Magnesium	**52**		0.20	0.049	mg/L		12/06/23 09:21	12/21/23 15:48	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/06/23 09:21	12/21/23 15:48	1
Potassium	**3.5**		0.50	0.11	mg/L		12/06/23 09:21	12/21/23 15:48	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 15:48	1
Sodium	**150**		0.20	0.077	mg/L		12/06/23 09:21	12/21/23 15:48	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/21/23 15:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**250**		10	1.2	mg/L			11/21/23 16:12	10
Sulfate (EPA 300.0)	**130**		10	2.1	mg/L			11/21/23 16:12	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**540**		5.0	3.7	mg/L			11/21/23 15:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/21/23 15:40	1
Total Dissolved Solids (SM 2540C)	**1300**		10	4.3	mg/L			11/19/23 23:28	1
Fluoride (SM 4500 F C)	**0.097**	**J**	0.10	0.056	mg/L			12/01/23 16:22	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.05**				ft			11/17/23 12:31	1
Field pH	**6.76**				SU			11/17/23 12:31	1
Field Temperature	**13.63**				Degrees C			11/17/23 12:31	1
Oxidation Reduction Potential	**152.3**				millivolts			11/17/23 12:31	1
Oxygen, Dissolved	**0.12**				mg/L			11/17/23 12:31	1
Specific Conductance	**11218**				umhos/cm			11/17/23 12:31	1
Turbidity	**1.86**				NTU			11/17/23 12:31	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_08
Date Collected: 11/17/23 12:32
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-27
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.011**		0.0050	0.0020	mg/L		11/22/23 17:00	11/27/23 13:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/21/23 16:12	1
Arsenic	**0.00050**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/21/23 16:12	1
Barium	**0.14**		0.0025	0.00073	mg/L		12/06/23 09:21	12/21/23 16:12	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 16:12	1
Boron	**0.095**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 11:46	1
Cadmium	**0.00050**		0.00050	0.00017	mg/L		12/06/23 09:21	12/21/23 16:12	1
Calcium	**200**		0.20	0.044	mg/L		12/06/23 09:21	12/21/23 16:12	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/06/23 09:21	12/21/23 16:12	1
Cobalt	**0.0046**		0.0010	0.00040	mg/L		12/06/23 09:21	12/21/23 16:12	1
Lead	**0.00066**		0.00050	0.00019	mg/L		12/06/23 09:21	12/21/23 16:12	1
Magnesium	**54**		0.20	0.049	mg/L		12/06/23 09:21	12/21/23 16:12	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/06/23 09:21	12/21/23 16:12	1
Potassium	**9.6**		0.50	0.11	mg/L		12/06/23 09:21	12/21/23 16:12	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 16:12	1
Sodium	**150**		0.20	0.077	mg/L		12/06/23 09:21	12/21/23 16:12	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/21/23 16:12	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**260**		10	1.2	mg/L			11/21/23 16:58	10
Sulfate (EPA 300.0)	**120**		10	2.1	mg/L			11/21/23 16:58	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**520**		5.0	3.7	mg/L			11/21/23 15:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/21/23 15:51	1
Total Dissolved Solids (SM 2540C)	**1100**		10	4.3	mg/L			11/19/23 23:31	1
Fluoride (SM 4500 F C)	**0.089**	**J**	0.10	0.056	mg/L			12/01/23 16:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.85**				ft			11/17/23 12:32	1
Field pH	**6.89**				SU			11/17/23 12:32	1
Field Temperature	**13.63**				Degrees C			11/17/23 12:32	1
Oxidation Reduction Potential	**168.7**				millivolts			11/17/23 12:32	1
Oxygen, Dissolved	**1.36**				mg/L			11/17/23 12:32	1
Specific Conductance	**2132.0**				umhos/cm			11/17/23 12:32	1
Turbidity	**0.03**				NTU			11/17/23 12:32	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_08_FD

Date Collected: 11/17/23 12:37
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-28

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.010**		0.0050	0.0020	mg/L		11/22/23 17:00	11/27/23 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/21/23 16:24	1
Arsenic	**0.00040**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/21/23 16:24	1
Barium	**0.11**		0.0025	0.00073	mg/L		12/06/23 09:21	12/21/23 16:24	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 16:24	1
Boron	**0.091**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 11:49	1
Cadmium	**0.00035**	**J**	0.00050	0.00017	mg/L		12/06/23 09:21	12/21/23 16:24	1
Calcium	**180**		0.20	0.044	mg/L		12/06/23 09:21	12/21/23 16:24	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/06/23 09:21	12/21/23 16:24	1
Cobalt	**0.0041**		0.0010	0.00040	mg/L		12/06/23 09:21	12/21/23 16:24	1
Lead	**0.00049**	**J**	0.00050	0.00019	mg/L		12/06/23 09:21	12/21/23 16:24	1
Magnesium	**48**		0.20	0.049	mg/L		12/06/23 09:21	12/21/23 16:24	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/06/23 09:21	12/21/23 16:24	1
Potassium	**8.5**		0.50	0.11	mg/L		12/06/23 09:21	12/21/23 16:24	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 16:24	1
Sodium	**130**		0.20	0.077	mg/L		12/06/23 09:21	12/21/23 16:24	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/21/23 16:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**260**		10	1.2	mg/L			11/21/23 17:13	10
Sulfate (EPA 300.0)	**120**		10	2.1	mg/L			11/21/23 17:13	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**520**		5.0	3.7	mg/L			11/21/23 16:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/21/23 16:01	1
Total Dissolved Solids (SM 2540C)	**1200**		10	4.3	mg/L			11/19/23 23:33	1
Fluoride (SM 4500 F C)	**0.087**	**J**	0.10	0.056	mg/L			12/06/23 16:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.85**				ft			11/17/23 12:37	1
Field pH	**6.89**				SU			11/17/23 12:37	1
Field Temperature	**13.63**				Degrees C			11/17/23 12:37	1
Oxidation Reduction Potential	**168.7**				millivolts			11/17/23 12:37	1
Oxygen, Dissolved	**1.36**				mg/L			11/17/23 12:37	1
Specific Conductance	**2132.0**				umhos/cm			11/17/23 12:37	1
Turbidity	**0.03**				NTU			11/17/23 12:37	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_17

Date Collected: 11/17/23 14:17
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0023**	**J**	0.0050	0.0020	mg/L		11/22/23 17:00	11/27/23 14:03	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		12/06/23 09:21	12/20/23 21:50	1
Arsenic	**0.00041**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/20/23 21:50	1
Barium	**0.090**		0.0025	0.00073	mg/L		12/06/23 09:21	12/20/23 21:50	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 16:27	1
Boron	**0.11**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 11:53	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/06/23 09:21	12/20/23 21:50	1
Calcium	**74**	**B**	0.20	0.044	mg/L		12/06/23 09:21	12/20/23 21:50	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/06/23 09:21	12/20/23 21:50	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/06/23 09:21	12/20/23 21:50	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/06/23 09:21	12/20/23 21:50	1
Magnesium	**30**		0.20	0.049	mg/L		12/06/23 09:21	12/20/23 21:50	1
Molybdenum	**0.0052**		0.0050	0.0025	mg/L		12/06/23 09:21	12/20/23 21:50	1
Potassium	**4.3**		0.50	0.11	mg/L		12/06/23 09:21	12/20/23 21:50	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 16:27	1
Sodium	**63**	**B**	0.20	0.077	mg/L		12/06/23 09:21	12/20/23 21:50	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/20/23 21:50	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**90**		5.0	0.58	mg/L			11/21/23 17:28	5
Sulfate (EPA 300.0)	**62**		5.0	1.0	mg/L			11/21/23 17:28	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**230**		5.0	3.7	mg/L			11/21/23 16:11	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/21/23 16:11	1
Total Dissolved Solids (SM 2540C)	**500**		10	4.3	mg/L			11/19/23 23:36	1
Fluoride (SM 4500 F C)	**0.21**		0.10	0.056	mg/L			12/01/23 18:13	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**55.35**				ft			11/17/23 14:17	1
Field pH	**7.34**				SU			11/17/23 14:17	1
Field Temperature	**17.89**				Degrees C			11/17/23 14:17	1
Oxidation Reduction Potential	**130.3**				millivolts			11/17/23 14:17	1
Oxygen, Dissolved	**5.69**				mg/L			11/17/23 14:17	1
Specific Conductance	**4723.0**				umhos/cm			11/17/23 14:17	1
Turbidity	**1.05**				NTU			11/17/23 14:17	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_16
Date Collected: 11/17/23 14:29
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-31
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0058**		0.0050	0.0020	mg/L		12/05/23 09:07	12/06/23 13:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/20/23 21:54	1
Arsenic	**0.00051**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/20/23 21:54	1
Barium	**0.073**		0.0025	0.00073	mg/L		12/06/23 09:21	12/20/23 21:54	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 16:31	1
Boron	**0.079**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 11:57	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/06/23 09:21	12/20/23 21:54	1
Calcium	**82**	**B**	0.20	0.044	mg/L		12/06/23 09:21	12/20/23 21:54	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/06/23 09:21	12/20/23 21:54	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/06/23 09:21	12/20/23 21:54	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/06/23 09:21	12/20/23 21:54	1
Magnesium	**28**		0.20	0.049	mg/L		12/06/23 09:21	12/20/23 21:54	1
Molybdenum	**0.0061**		0.0050	0.0025	mg/L		12/06/23 09:21	12/20/23 21:54	1
Potassium	**4.2**		0.50	0.11	mg/L		12/06/23 09:21	12/20/23 21:54	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 16:31	1
Sodium	**56**	**B**	0.20	0.077	mg/L		12/06/23 09:21	12/20/23 21:54	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/20/23 21:54	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**79**		5.0	0.58	mg/L			11/21/23 17:43	5
Sulfate (EPA 300.0)	**64**		5.0	1.0	mg/L			11/21/23 17:43	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**230**		5.0	3.7	mg/L			11/21/23 16:20	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/21/23 16:20	1
Total Dissolved Solids (SM 2540C)	**420**		10	4.3	mg/L			11/20/23 22:58	1
Fluoride (SM 4500 F C)	**0.22**		0.10	0.056	mg/L			12/01/23 17:12	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.42**				ft			11/17/23 14:29	1
Field pH	**7.34**				SU			11/17/23 14:29	1
Field Temperature	**15.24**				Degrees C			11/17/23 14:29	1
Oxidation Reduction Potential	**151.1**				millivolts			11/17/23 14:29	1
Oxygen, Dissolved	**5.98**				mg/L			11/17/23 14:29	1
Specific Conductance	**915.25**				umhos/cm			11/17/23 14:29	1
Turbidity	**0.14**				NTU			11/17/23 14:29	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_46
Date Collected: 11/20/23 09:13
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-35
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0089**		0.0050	0.0020	mg/L		12/05/23 09:07	12/06/23 13:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/20/23 22:04	1
Arsenic	**0.00049**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/20/23 22:04	1
Barium	**0.071**		0.0025	0.00073	mg/L		12/06/23 09:21	12/20/23 22:04	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 16:42	1
Boron	**0.12**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 12:08	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/06/23 09:21	12/20/23 22:04	1
Calcium	**79**	**B**	0.20	0.044	mg/L		12/06/23 09:21	12/20/23 22:04	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/06/23 09:21	12/20/23 22:04	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/06/23 09:21	12/20/23 22:04	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/06/23 09:21	12/20/23 22:04	1
Magnesium	**31**		0.20	0.049	mg/L		12/06/23 09:21	12/20/23 22:04	1
Molybdenum	**0.018**		0.0050	0.0025	mg/L		12/06/23 09:21	12/20/23 22:04	1
Potassium	**4.3**		0.50	0.11	mg/L		12/06/23 09:21	12/20/23 22:04	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 16:42	1
Sodium	**50**	**B**	0.20	0.077	mg/L		12/06/23 09:21	12/20/23 22:04	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/20/23 22:04	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**70**		5.0	0.58	mg/L			11/27/23 13:04	5
Sulfate (EPA 300.0)	**61**		5.0	1.0	mg/L			11/27/23 13:04	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			11/30/23 11:12	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 11:12	1
Total Dissolved Solids (SM 2540C)	**490**		10	4.3	mg/L			11/21/23 23:01	1
Fluoride (SM 4500 F C)	**0.22**		0.10	0.056	mg/L			12/01/23 17:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.58**				ft			11/20/23 09:13	1
Field pH	**7.27**				SU			11/20/23 09:13	1
Field Temperature	**18.16**				Degrees C			11/20/23 09:13	1
Oxidation Reduction Potential	**221.0**				millivolts			11/20/23 09:13	1
Oxygen, Dissolved	**2.95**				mg/L			11/20/23 09:13	1
Specific Conductance	**442.66**				umhos/cm			11/20/23 09:13	1
Turbidity	**0.24**				NTU			11/20/23 09:13	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_52
Date Collected: 11/20/23 10:18
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-37
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0085**		0.0050	0.0020	mg/L		12/05/23 09:07	12/06/23 14:03	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		12/06/23 09:21	12/20/23 22:08	1
Arsenic	**0.00047**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/20/23 22:08	1
Barium	**0.097**		0.0025	0.00073	mg/L		12/06/23 09:21	12/20/23 22:08	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 16:46	1
Boron	**0.21**	**B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 12:12	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/06/23 09:21	12/20/23 22:08	1
Calcium	**94**	**B**	0.20	0.044	mg/L		12/06/23 09:21	12/20/23 22:08	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/06/23 09:21	12/20/23 22:08	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/06/23 09:21	12/20/23 22:08	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/06/23 09:21	12/20/23 22:08	1
Magnesium	**31**		0.20	0.049	mg/L		12/06/23 09:21	12/20/23 22:08	1
Molybdenum	**0.011**		0.0050	0.0025	mg/L		12/06/23 09:21	12/20/23 22:08	1
Potassium	**5.1**		0.50	0.11	mg/L		12/06/23 09:21	12/20/23 22:08	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 16:46	1
Sodium	**64**	**B**	0.20	0.077	mg/L		12/06/23 09:21	12/20/23 22:08	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/20/23 22:08	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 08:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**85**		5.0	0.58	mg/L			11/27/23 17:52	5
Sulfate (EPA 300.0)	**66**		5.0	1.0	mg/L			11/27/23 17:52	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**		5.0	3.7	mg/L			11/30/23 11:23	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 11:23	1
Total Dissolved Solids (SM 2540C)	**520**		10	4.3	mg/L			11/21/23 23:07	1
Fluoride (SM 4500 F C)	**0.23**		0.10	0.056	mg/L			12/01/23 17:37	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.93**				ft			11/20/23 10:18	1
Field pH	**7.09**				SU			11/20/23 10:18	1
Field Temperature	**18.47**				Degrees C			11/20/23 10:18	1
Oxidation Reduction Potential	**198.1**				millivolts			11/20/23 10:18	1
Oxygen, Dissolved	**2.30**				mg/L			11/20/23 10:18	1
Specific Conductance	**1129.6**				umhos/cm			11/20/23 10:18	1
Turbidity	**1.01**				NTU			11/20/23 10:18	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_07
Date Collected: 11/20/23 13:12
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-38
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0098**		0.0050	0.0020	mg/L		12/05/23 09:07	12/06/23 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/20/23 22:11	1
Arsenic	**0.00043**	**J**	0.0010	0.00023	mg/L		12/06/23 09:21	12/20/23 22:11	1
Barium	**0.13**		0.0025	0.00073	mg/L		12/06/23 09:21	12/20/23 22:11	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 16:50	1
Boron	**0.038**	**J B**	0.050	0.013	mg/L		12/06/23 09:21	12/22/23 12:16	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/06/23 09:21	12/20/23 22:11	1
Calcium	**120**	**B**	0.20	0.044	mg/L		12/06/23 09:21	12/20/23 22:11	1
Chromium	**0.0018**	**J**	0.0050	0.0011	mg/L		12/06/23 09:21	12/20/23 22:11	1
Cobalt	**0.012**		0.0010	0.00040	mg/L		12/06/23 09:21	12/20/23 22:11	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/06/23 09:21	12/20/23 22:11	1
Magnesium	**42**		0.20	0.049	mg/L		12/06/23 09:21	12/20/23 22:11	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/06/23 09:21	12/20/23 22:11	1
Potassium	**3.1**		0.50	0.11	mg/L		12/06/23 09:21	12/20/23 22:11	1
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 16:50	1
Sodium	**64**	**B**	0.20	0.077	mg/L		12/06/23 09:21	12/20/23 22:11	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/20/23 22:11	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**86**		5.0	0.58	mg/L			11/27/23 13:19	5
Sulfate (EPA 300.0)	**56**		5.0	1.0	mg/L			11/27/23 13:19	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**370**		5.0	3.7	mg/L			11/30/23 11:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			11/30/23 11:33	1
Total Dissolved Solids (SM 2540C)	**690**		10	4.3	mg/L			11/21/23 23:09	1
Fluoride (SM 4500 F C)	**0.12**		0.10	0.056	mg/L			12/01/23 17:42	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**68.55**				ft			11/20/23 13:12	1
Field pH	**6.96**				SU			11/20/23 13:12	1
Field Temperature	**11.42**				Degrees C			11/20/23 13:12	1
Oxidation Reduction Potential	**171.3**				millivolts			11/20/23 13:12	1
Oxygen, Dissolved	**4.01**				mg/L			11/20/23 13:12	1
Specific Conductance	**7297.8**				umhos/cm			11/20/23 13:12	1
Turbidity	**0.64**				NTU			11/20/23 13:12	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_55
Date Collected: 11/13/23 08:46
Date Received: 12/06/23 07:24

Lab Sample ID: 500-242591-51
Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	51.26				ft			11/13/23 08:46	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_XSG01

Date Collected: 11/13/23 16:18
Date Received: 12/06/23 07:24

Lab Sample ID: 500-242591-55

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	10.28				ft			11/13/23 16:18	1

Client Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_YSG_ILRIVER

Date Collected: 11/13/23 00:00
Date Received: 12/06/23 07:24

Lab Sample ID: 500-242591-56

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	441.0				ft			11/13/23 00:00	1

Definitions/Glossary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

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: HEN-23Q4

Job ID: 500-242591-15
SDG: HEN_257_803

Metals

Prep Batch: 743163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total Recoverable	Water	200.7	
MB 500-743163/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-743163/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 743512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total Recoverable	Water	200.7 Rev 4.4	743163
MB 500-743163/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	743163
LCS 500-743163/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	743163

Prep Batch: 743616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-23	HEN_47	Total Recoverable	Water	200.7	
500-242591-24	HEN_12	Total Recoverable	Water	200.7	
500-242591-25	HEN_13	Total Recoverable	Water	200.7	
500-242591-26	HEN_08&D	Total Recoverable	Water	200.7	
500-242591-27	HEN_08	Total Recoverable	Water	200.7	
500-242591-28	HEN_08_FD	Total Recoverable	Water	200.7	
500-242591-30	HEN_17	Total Recoverable	Water	200.7	
MB 500-743616/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-743616/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 743952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-23	HEN_47	Total Recoverable	Water	200.7 Rev 4.4	743616
500-242591-24	HEN_12	Total Recoverable	Water	200.7 Rev 4.4	743616
500-242591-25	HEN_13	Total Recoverable	Water	200.7 Rev 4.4	743616
500-242591-26	HEN_08&D	Total Recoverable	Water	200.7 Rev 4.4	743616
500-242591-27	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	743616
500-242591-28	HEN_08_FD	Total Recoverable	Water	200.7 Rev 4.4	743616
500-242591-30	HEN_17	Total Recoverable	Water	200.7 Rev 4.4	743616
MB 500-743616/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	743616
LCS 500-743616/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	743616

Prep Batch: 744964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total/NA	Water	7470A	
500-242591-23	HEN_47	Total/NA	Water	7470A	
500-242591-24	HEN_12	Total/NA	Water	7470A	
500-242591-25	HEN_13	Total/NA	Water	7470A	
500-242591-26	HEN_08&D	Total/NA	Water	7470A	
500-242591-27	HEN_08	Total/NA	Water	7470A	
500-242591-28	HEN_08_FD	Total/NA	Water	7470A	
500-242591-30	HEN_17	Total/NA	Water	7470A	
500-242591-31	HEN_16	Total/NA	Water	7470A	
500-242591-35	HEN_46	Total/NA	Water	7470A	
500-242591-37	HEN_52	Total/NA	Water	7470A	
500-242591-38	HEN_07	Total/NA	Water	7470A	
MB 500-744964/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-744964/13-A	Lab Control Sample	Total/NA	Water	7470A	

QC Association Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Metals

Prep Batch: 745158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-31	HEN_16	Total Recoverable	Water	200.7	
500-242591-35	HEN_46	Total Recoverable	Water	200.7	
500-242591-37	HEN_52	Total Recoverable	Water	200.7	
500-242591-38	HEN_07	Total Recoverable	Water	200.7	
MB 500-745158/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-745158/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 745181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total/NA	Water	7470A	744964
500-242591-23	HEN_47	Total/NA	Water	7470A	744964
500-242591-24	HEN_12	Total/NA	Water	7470A	744964
500-242591-25	HEN_13	Total/NA	Water	7470A	744964
500-242591-26	HEN_08&D	Total/NA	Water	7470A	744964
500-242591-27	HEN_08	Total/NA	Water	7470A	744964
500-242591-28	HEN_08_FD	Total/NA	Water	7470A	744964
500-242591-30	HEN_17	Total/NA	Water	7470A	744964
500-242591-31	HEN_16	Total/NA	Water	7470A	744964
500-242591-35	HEN_46	Total/NA	Water	7470A	744964
500-242591-37	HEN_52	Total/NA	Water	7470A	744964
500-242591-38	HEN_07	Total/NA	Water	7470A	744964
MB 500-744964/12-A	Method Blank	Total/NA	Water	7470A	744964
LCS 500-744964/13-A	Lab Control Sample	Total/NA	Water	7470A	744964

Prep Batch: 745370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total Recoverable	Water	3005A	
500-242591-23	HEN_47	Total Recoverable	Water	3005A	
500-242591-24	HEN_12	Total Recoverable	Water	3005A	
500-242591-25	HEN_13	Total Recoverable	Water	3005A	
500-242591-26	HEN_08&D	Total Recoverable	Water	3005A	
500-242591-27	HEN_08	Total Recoverable	Water	3005A	
500-242591-28	HEN_08_FD	Total Recoverable	Water	3005A	
500-242591-30	HEN_17	Total Recoverable	Water	3005A	
500-242591-31	HEN_16	Total Recoverable	Water	3005A	
500-242591-35	HEN_46	Total Recoverable	Water	3005A	
500-242591-37	HEN_52	Total Recoverable	Water	3005A	
500-242591-38	HEN_07	Total Recoverable	Water	3005A	
MB 500-745370/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-745370/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 745468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-31	HEN_16	Total Recoverable	Water	200.7 Rev 4.4	745158
500-242591-35	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	745158
500-242591-37	HEN_52	Total Recoverable	Water	200.7 Rev 4.4	745158
500-242591-38	HEN_07	Total Recoverable	Water	200.7 Rev 4.4	745158
MB 500-745158/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	745158
LCS 500-745158/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	745158

QC Association Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Metals

Analysis Batch: 747720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-30	HEN_17	Total Recoverable	Water	6020B	745370
500-242591-31	HEN_16	Total Recoverable	Water	6020B	745370
500-242591-35	HEN_46	Total Recoverable	Water	6020B	745370
500-242591-37	HEN_52	Total Recoverable	Water	6020B	745370
500-242591-38	HEN_07	Total Recoverable	Water	6020B	745370

Analysis Batch: 747971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total Recoverable	Water	6020B	745370
500-242591-23	HEN_47	Total Recoverable	Water	6020B	745370
500-242591-24	HEN_12	Total Recoverable	Water	6020B	745370
500-242591-25	HEN_13	Total Recoverable	Water	6020B	745370
500-242591-26	HEN_08&D	Total Recoverable	Water	6020B	745370
500-242591-27	HEN_08	Total Recoverable	Water	6020B	745370
500-242591-28	HEN_08_FD	Total Recoverable	Water	6020B	745370
500-242591-30	HEN_17	Total Recoverable	Water	6020B	745370
500-242591-31	HEN_16	Total Recoverable	Water	6020B	745370
500-242591-35	HEN_46	Total Recoverable	Water	6020B	745370
500-242591-37	HEN_52	Total Recoverable	Water	6020B	745370
500-242591-38	HEN_07	Total Recoverable	Water	6020B	745370
MB 500-745370/1-A	Method Blank	Total Recoverable	Water	6020B	745370
LCS 500-745370/2-A	Lab Control Sample	Total Recoverable	Water	6020B	745370

Analysis Batch: 748042

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total Recoverable	Water	6020B	745370
500-242591-23	HEN_47	Total Recoverable	Water	6020B	745370
500-242591-24	HEN_12	Total Recoverable	Water	6020B	745370
500-242591-25	HEN_13	Total Recoverable	Water	6020B	745370
500-242591-26	HEN_08&D	Total Recoverable	Water	6020B	745370
500-242591-27	HEN_08	Total Recoverable	Water	6020B	745370
500-242591-28	HEN_08_FD	Total Recoverable	Water	6020B	745370
500-242591-30	HEN_17	Total Recoverable	Water	6020B	745370
500-242591-31	HEN_16	Total Recoverable	Water	6020B	745370
500-242591-35	HEN_46	Total Recoverable	Water	6020B	745370
500-242591-37	HEN_52	Total Recoverable	Water	6020B	745370
500-242591-38	HEN_07	Total Recoverable	Water	6020B	745370

General Chemistry

Analysis Batch: 742951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total/NA	Water	SM 2540C	
500-242591-23	HEN_47	Total/NA	Water	SM 2540C	
500-242591-24	HEN_12	Total/NA	Water	SM 2540C	
500-242591-25	HEN_13	Total/NA	Water	SM 2540C	
500-242591-26	HEN_08&D	Total/NA	Water	SM 2540C	
500-242591-27	HEN_08	Total/NA	Water	SM 2540C	
500-242591-28	HEN_08_FD	Total/NA	Water	SM 2540C	
500-242591-30	HEN_17	Total/NA	Water	SM 2540C	
MB 500-742951/1	Method Blank	Total/NA	Water	SM 2540C	

QC Association Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

General Chemistry (Continued)

Analysis Batch: 742951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-742951/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 743193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-31	HEN_16	Total/NA	Water	SM 2540C	
MB 500-743193/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-743193/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 743297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total/NA	Water	300.0	
500-242591-23	HEN_47	Total/NA	Water	300.0	
500-242591-24	HEN_12	Total/NA	Water	300.0	
500-242591-25	HEN_13	Total/NA	Water	300.0	
500-242591-26	HEN_08&D	Total/NA	Water	300.0	
500-242591-27	HEN_08	Total/NA	Water	300.0	
500-242591-28	HEN_08_FD	Total/NA	Water	300.0	
500-242591-30	HEN_17	Total/NA	Water	300.0	
500-242591-31	HEN_16	Total/NA	Water	300.0	
MB 500-743297/3	Method Blank	Total/NA	Water	300.0	
LCS 500-743297/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 743427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-35	HEN_46	Total/NA	Water	SM 2540C	
500-242591-37	HEN_52	Total/NA	Water	SM 2540C	
500-242591-38	HEN_07	Total/NA	Water	SM 2540C	
MB 500-743427/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-743427/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 743513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total/NA	Water	SM 2320B	
500-242591-23	HEN_47	Total/NA	Water	SM 2320B	
500-242591-24	HEN_12	Total/NA	Water	SM 2320B	
500-242591-25	HEN_13	Total/NA	Water	SM 2320B	
500-242591-26	HEN_08&D	Total/NA	Water	SM 2320B	
500-242591-27	HEN_08	Total/NA	Water	SM 2320B	
500-242591-28	HEN_08_FD	Total/NA	Water	SM 2320B	
500-242591-30	HEN_17	Total/NA	Water	SM 2320B	
500-242591-31	HEN_16	Total/NA	Water	SM 2320B	
MB 500-743513/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-743513/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-743513/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-743513/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 743830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-35	HEN_46	Total/NA	Water	300.0	
500-242591-37	HEN_52	Total/NA	Water	300.0	
500-242591-38	HEN_07	Total/NA	Water	300.0	

QC Association Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

General Chemistry (Continued)

Analysis Batch: 743830 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-743830/3	Method Blank	Total/NA	Water	300.0	
LCS 500-743830/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 744626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-35	HEN_46	Total/NA	Water	SM 2320B	
500-242591-37	HEN_52	Total/NA	Water	SM 2320B	
500-242591-38	HEN_07	Total/NA	Water	SM 2320B	
MB 500-744626/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-744626/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 744922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total/NA	Water	SM 4500 F C	
500-242591-23	HEN_47	Total/NA	Water	SM 4500 F C	
500-242591-24	HEN_12	Total/NA	Water	SM 4500 F C	
500-242591-26	HEN_08&D	Total/NA	Water	SM 4500 F C	
500-242591-27	HEN_08	Total/NA	Water	SM 4500 F C	
500-242591-30	HEN_17	Total/NA	Water	SM 4500 F C	
500-242591-31	HEN_16	Total/NA	Water	SM 4500 F C	
500-242591-35	HEN_46	Total/NA	Water	SM 4500 F C	
500-242591-37	HEN_52	Total/NA	Water	SM 4500 F C	
500-242591-38	HEN_07	Total/NA	Water	SM 4500 F C	
MB 500-744922/31	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-744922/59	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-744922/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-744922/60	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 745605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-25	HEN_13	Total/NA	Water	SM 4500 F C	
500-242591-28	HEN_08_FD	Total/NA	Water	SM 4500 F C	
MB 500-745605/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-745605/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 745357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total/NA	Water	Field Sampling	
500-242591-23	HEN_47	Total/NA	Water	Field Sampling	
500-242591-24	HEN_12	Total/NA	Water	Field Sampling	
500-242591-25	HEN_13	Total/NA	Water	Field Sampling	
500-242591-26	HEN_08&D	Total/NA	Water	Field Sampling	
500-242591-27	HEN_08	Total/NA	Water	Field Sampling	
500-242591-28	HEN_08_FD	Total/NA	Water	Field Sampling	
500-242591-30	HEN_17	Total/NA	Water	Field Sampling	
500-242591-31	HEN_16	Total/NA	Water	Field Sampling	
500-242591-35	HEN_46	Total/NA	Water	Field Sampling	
500-242591-37	HEN_52	Total/NA	Water	Field Sampling	
500-242591-38	HEN_07	Total/NA	Water	Field Sampling	

QC Association Summary

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

Job ID: 500-242591-15
SDG: HEN_257_803

Field Service / Mobile Lab (Continued)

Analysis Batch: 745357 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-51	HEN_55	Total/NA	Water	Field Sampling	
500-242591-55	HEN_XSG01	Total/NA	Water	Field Sampling	
500-242591-56	HEN_YSG_ILRIVER	Total/NA	Water	Field Sampling	

QC Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-743163/1-A
Matrix: Water
Analysis Batch: 743512

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 743163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		11/20/23 17:49	11/21/23 16:11	1

Lab Sample ID: LCS 500-743163/2-A
Matrix: Water
Analysis Batch: 743512

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 743163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.255		mg/L		102	85 - 115

Lab Sample ID: MB 500-743616/1-A
Matrix: Water
Analysis Batch: 743952

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 743616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		11/22/23 17:00	11/27/23 12:52	1

Lab Sample ID: MB 500-745158/1-A
Matrix: Water
Analysis Batch: 745468

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745158

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		12/05/23 09:07	12/06/23 12:57	1

Lab Sample ID: LCS 500-745158/2-A
Matrix: Water
Analysis Batch: 745468

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 745158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.273		mg/L		109	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-745370/1-A
Matrix: Water
Analysis Batch: 747971

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		12/06/23 09:21	12/21/23 14:58	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		12/06/23 09:21	12/21/23 14:58	1
Barium	<0.0025		0.0025	0.00073	mg/L		12/06/23 09:21	12/21/23 14:58	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		12/06/23 09:21	12/21/23 14:58	1
Boron	0.0298	J	0.050	0.013	mg/L		12/06/23 09:21	12/21/23 14:58	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		12/06/23 09:21	12/21/23 14:58	1
Calcium	<0.20		0.20	0.044	mg/L		12/06/23 09:21	12/21/23 14:58	1
Chromium	<0.0050		0.0050	0.0011	mg/L		12/06/23 09:21	12/21/23 14:58	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		12/06/23 09:21	12/21/23 14:58	1
Lead	<0.00050		0.00050	0.00019	mg/L		12/06/23 09:21	12/21/23 14:58	1
Magnesium	<0.20		0.20	0.049	mg/L		12/06/23 09:21	12/21/23 14:58	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		12/06/23 09:21	12/21/23 14:58	1
Potassium	<0.50		0.50	0.11	mg/L		12/06/23 09:21	12/21/23 14:58	1

QC Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

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

Lab Sample ID: MB 500-745370/1-A
Matrix: Water
Analysis Batch: 747971

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 745370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.0025		0.0025	0.00098	mg/L		12/06/23 09:21	12/21/23 14:58	1
Sodium	<0.20		0.20	0.077	mg/L		12/06/23 09:21	12/21/23 14:58	1
Thallium	<0.0020		0.0020	0.00057	mg/L		12/06/23 09:21	12/21/23 14:58	1

Lab Sample ID: LCS 500-745370/2-A
Matrix: Water
Analysis Batch: 747971

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 745370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.489		mg/L		98	80 - 120
Arsenic	0.100	0.0956		mg/L		96	80 - 120
Barium	0.500	0.486		mg/L		97	80 - 120
Beryllium	0.0500	0.0462	^1+	mg/L		92	80 - 120
Boron	1.00	1.02		mg/L		102	80 - 120
Cadmium	0.0500	0.0488		mg/L		98	80 - 120
Calcium	10.0	8.32		mg/L		83	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.500		mg/L		100	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Magnesium	10.0	9.56		mg/L		96	80 - 120
Molybdenum	1.00	0.906		mg/L		91	80 - 120
Potassium	10.0	9.66		mg/L		97	80 - 120
Selenium	0.100	0.0948		mg/L		95	80 - 120
Sodium	10.0	9.58		mg/L		96	80 - 120
Thallium	0.100	0.100		mg/L		100	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-744964/12-A
Matrix: Water
Analysis Batch: 745181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 744964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		12/04/23 09:40	12/05/23 07:21	1

Lab Sample ID: LCS 500-744964/13-A
Matrix: Water
Analysis Batch: 745181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 744964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00203		mg/L		101	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-743297/3
Matrix: Water
Analysis Batch: 743297

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			11/21/23 13:25	1

QC Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-743297/3
Matrix: Water
Analysis Batch: 743297

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.0		1.0	0.21	mg/L			11/21/23 13:25	1

Lab Sample ID: LCS 500-743297/4
Matrix: Water
Analysis Batch: 743297

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	19.4		mg/L		97	90 - 110
Sulfate	20.0	19.8		mg/L		99	90 - 110

Lab Sample ID: MB 500-743830/3
Matrix: Water
Analysis Batch: 743830

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			11/27/23 11:33	1
Sulfate	<1.0		1.0	0.21	mg/L			11/27/23 11:33	1

Lab Sample ID: LCS 500-743830/5
Matrix: Water
Analysis Batch: 743830

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	19.8		mg/L		99	90 - 110
Sulfate	20.0	20.3		mg/L		102	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-743513/28
Matrix: Water
Analysis Batch: 743513

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/21/23 15:27	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/21/23 15:27	1

Lab Sample ID: MB 500-743513/3
Matrix: Water
Analysis Batch: 743513

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/21/23 11:50	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			11/21/23 11:50	1

Lab Sample ID: LCS 500-743513/29
Matrix: Water
Analysis Batch: 743513

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	103		mg/L		103	90 - 110

QC Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 500-743513/4
Matrix: Water
Analysis Batch: 743513

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	101		mg/L		101	90 - 110

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

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

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

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

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

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

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

Lab Sample ID: MB 500-742951/1
Matrix: Water
Analysis Batch: 742951

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	4.3	mg/L			11/19/23 22:37	1

Lab Sample ID: LCS 500-742951/2
Matrix: Water
Analysis Batch: 742951

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 500-743193/1
Matrix: Water
Analysis Batch: 743193

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	4.3	mg/L			11/20/23 22:35	1

Lab Sample ID: LCS 500-743193/2
Matrix: Water
Analysis Batch: 743193

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	266		mg/L		106	80 - 120

QC Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

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

Lab Sample ID: MB 500-743427/1
Matrix: Water
Analysis Batch: 743427

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	4.3	mg/L			11/21/23 22:36	1

Lab Sample ID: LCS 500-743427/2
Matrix: Water
Analysis Batch: 743427

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	260		mg/L		104	80 - 120

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-744922/31
Matrix: Water
Analysis Batch: 744922

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			12/01/23 14:18	1

Lab Sample ID: MB 500-744922/59
Matrix: Water
Analysis Batch: 744922

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			12/01/23 16:38	1

Lab Sample ID: LCS 500-744922/32
Matrix: Water
Analysis Batch: 744922

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	9.83		mg/L		98	90 - 119

Lab Sample ID: LCS 500-744922/60
Matrix: Water
Analysis Batch: 744922

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	9.94		mg/L		99	90 - 119

Lab Sample ID: MB 500-745605/3
Matrix: Water
Analysis Batch: 745605

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			12/06/23 14:28	1

QC Sample Results

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

Job ID: 500-242591-15
SDG: HEN_257_803

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-745605/4
Matrix: Water
Analysis Batch: 745605

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride			10.0	9.74		mg/L		97	90 - 119		

Lab Chronicle

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_54
Date Collected: 11/17/23 09:02
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			743163	MC	EET CHI	11/20/23 17:49 - 11/20/23 22:49 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	743512	SJ	EET CHI	11/21/23 18:07
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 15:33
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 11:19
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 [1]
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 07:25
Total/NA	Analysis	300.0		5	743297	W1T	EET CHI	11/21/23 15:11
Total/NA	Analysis	SM 2320B		1	743513	SO	EET CHI	11/21/23 14:26
Total/NA	Analysis	SM 2540C		1	742951	CLB	EET CHI	11/19/23 23:18
Total/NA	Analysis	SM 4500 F C		1	744922	SO	EET CHI	12/01/23 16:03
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/17/23 09:02

Client Sample ID: HEN_47
Date Collected: 11/17/23 09:33
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			743616	MC	EET CHI	11/22/23 17:00 - 11/22/23 23:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	743952	RN	EET CHI	11/27/23 13:38
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 15:36
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 11:23
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 [1]
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 07:27
Total/NA	Analysis	300.0		5	743297	W1T	EET CHI	11/21/23 15:27
Total/NA	Analysis	SM 2320B		1	743513	SO	EET CHI	11/21/23 15:00
Total/NA	Analysis	SM 2540C		1	742951	CLB	EET CHI	11/19/23 23:20
Total/NA	Analysis	SM 4500 F C		1	744922	SO	EET CHI	12/01/23 16:08
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/17/23 09:33

Client Sample ID: HEN_12
Date Collected: 11/17/23 10:19
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			743616	MC	EET CHI	11/22/23 17:00 - 11/22/23 23:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	743952	RN	EET CHI	11/27/23 13:42
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 15:40
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 11:27

Lab Chronicle

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_12
Date Collected: 11/17/23 10:19
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 [1]
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 07:29
Total/NA	Analysis	300.0		5	743297	W1T	EET CHI	11/21/23 15:42
Total/NA	Analysis	SM 2320B		1	743513	SO	EET CHI	11/21/23 15:09
Total/NA	Analysis	SM 2540C		1	742951	CLB	EET CHI	11/19/23 23:23
Total/NA	Analysis	SM 4500 F C		1	744922	SO	EET CHI	12/01/23 16:12
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/17/23 10:19

Client Sample ID: HEN_13
Date Collected: 11/17/23 10:21
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			743616	MC	EET CHI	11/22/23 17:00 - 11/22/23 23:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	743952	RN	EET CHI	11/27/23 13:46
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 15:44
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 11:31
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 [1]
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 07:32
Total/NA	Analysis	300.0		5	743297	W1T	EET CHI	11/21/23 15:57
Total/NA	Analysis	SM 2320B		1	743513	SO	EET CHI	11/21/23 15:18
Total/NA	Analysis	SM 2540C		1	742951	CLB	EET CHI	11/19/23 23:26
Total/NA	Analysis	SM 4500 F C		1	745605	SO	EET CHI	12/06/23 16:07
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/17/23 10:21

Client Sample ID: HEN_08&D
Date Collected: 11/17/23 12:31
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			743616	MC	EET CHI	11/22/23 17:00 - 11/22/23 23:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	743952	RN	EET CHI	11/27/23 13:50
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 15:48
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 11:34
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 [1]
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 07:34
Total/NA	Analysis	300.0		10	743297	W1T	EET CHI	11/21/23 16:12
Total/NA	Analysis	SM 2320B		1	743513	SO	EET CHI	11/21/23 15:40
Total/NA	Analysis	SM 2540C		1	742951	CLB	EET CHI	11/19/23 23:28

Lab Chronicle

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_08&D
Date Collected: 11/17/23 12:31
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	744922	SO	EET CHI	12/01/23 16:22
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/17/23 12:31

Client Sample ID: HEN_08
Date Collected: 11/17/23 12:32
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			743616	MC	EET CHI	11/22/23 17:00 - 11/22/23 23:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	743952	RN	EET CHI	11/27/23 13:55
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 ¹
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 16:12
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 ¹
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 11:46
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 ¹
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 07:36
Total/NA	Analysis	300.0		10	743297	W1T	EET CHI	11/21/23 16:58
Total/NA	Analysis	SM 2320B		1	743513	SO	EET CHI	11/21/23 15:51
Total/NA	Analysis	SM 2540C		1	742951	CLB	EET CHI	11/19/23 23:31
Total/NA	Analysis	SM 4500 F C		1	744922	SO	EET CHI	12/01/23 16:27
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/17/23 12:32

Client Sample ID: HEN_08_FD
Date Collected: 11/17/23 12:37
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			743616	MC	EET CHI	11/22/23 17:00 - 11/22/23 23:00 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	743952	RN	EET CHI	11/27/23 13:59
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 ¹
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 16:24
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 ¹
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 11:49
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 ¹
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 07:38
Total/NA	Analysis	300.0		10	743297	W1T	EET CHI	11/21/23 17:13
Total/NA	Analysis	SM 2320B		1	743513	SO	EET CHI	11/21/23 16:01
Total/NA	Analysis	SM 2540C		1	742951	CLB	EET CHI	11/19/23 23:33
Total/NA	Analysis	SM 4500 F C		1	745605	SO	EET CHI	12/06/23 16:34
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/17/23 12:37

Lab Chronicle

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_17
Date Collected: 11/17/23 14:17
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			743616	MC	EET CHI	11/22/23 17:00 - 11/22/23 23:00 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	743952	RN	EET CHI	11/27/23 14:03
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747720	RN	EET CHI	12/20/23 21:50
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 16:27
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 11:53
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 [1]
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 07:44
Total/NA	Analysis	300.0		5	743297	W1T	EET CHI	11/21/23 17:28
Total/NA	Analysis	SM 2320B		1	743513	SO	EET CHI	11/21/23 16:11
Total/NA	Analysis	SM 2540C		1	742951	CLB	EET CHI	11/19/23 23:36
Total/NA	Analysis	SM 4500 F C		1	744922	SO	EET CHI	12/01/23 18:13
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/17/23 14:17

Client Sample ID: HEN_16
Date Collected: 11/17/23 14:29
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745158	BDE	EET CHI	12/05/23 09:07 - 12/05/23 09:37 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	745468	RN	EET CHI	12/06/23 13:46
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747720	RN	EET CHI	12/20/23 21:54
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 16:31
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 11:57
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 [1]
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 07:46
Total/NA	Analysis	300.0		5	743297	W1T	EET CHI	11/21/23 17:43
Total/NA	Analysis	SM 2320B		1	743513	SO	EET CHI	11/21/23 16:20
Total/NA	Analysis	SM 2540C		1	743193	CLB	EET CHI	11/20/23 22:58
Total/NA	Analysis	SM 4500 F C		1	744922	SO	EET CHI	12/01/23 17:12
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/17/23 14:29

Client Sample ID: HEN_46
Date Collected: 11/20/23 09:13
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745158	BDE	EET CHI	12/05/23 09:07 - 12/05/23 09:37 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	745468	RN	EET CHI	12/06/23 13:59

Lab Chronicle

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_46
Date Collected: 11/20/23 09:13
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747720	RN	EET CHI	12/20/23 22:04
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 16:42
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 12:08
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 [1]
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 07:59
Total/NA	Analysis	300.0		5	743830	NMB	EET CHI	11/27/23 13:04
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 11:12
Total/NA	Analysis	SM 2540C		1	743427	CLB	EET CHI	11/21/23 23:01
Total/NA	Analysis	SM 4500 F C		1	744922	SO	EET CHI	12/01/23 17:27
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/20/23 09:13

Client Sample ID: HEN_52
Date Collected: 11/20/23 10:18
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745158	BDE	EET CHI	12/05/23 09:07 - 12/05/23 09:37 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	745468	RN	EET CHI	12/06/23 14:03
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747720	RN	EET CHI	12/20/23 22:08
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 16:46
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 12:12
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 [1]
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 08:01
Total/NA	Analysis	300.0		5	743830	NMB	EET CHI	11/27/23 17:52
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 11:23
Total/NA	Analysis	SM 2540C		1	743427	CLB	EET CHI	11/21/23 23:07
Total/NA	Analysis	SM 4500 F C		1	744922	SO	EET CHI	12/01/23 17:37
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/20/23 10:18

Client Sample ID: HEN_07
Date Collected: 11/20/23 13:12
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			745158	BDE	EET CHI	12/05/23 09:07 - 12/05/23 09:37 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	745468	RN	EET CHI	12/06/23 14:08
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747720	RN	EET CHI	12/20/23 22:11

Lab Chronicle

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

Job ID: 500-242591-15
SDG: HEN_257_803

Client Sample ID: HEN_07
Date Collected: 11/20/23 13:12
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	747971	SJ	EET CHI	12/21/23 16:50
Total Recoverable	Prep	3005A			745370	BDE	EET CHI	12/06/23 09:21 - 12/06/23 09:51 [1]
Total Recoverable	Analysis	6020B		1	748042	RN	EET CHI	12/22/23 12:16
Total/NA	Prep	7470A			744964	MJG	EET CHI	12/04/23 09:40 - 12/04/23 11:40 [1]
Total/NA	Analysis	7470A		1	745181	MJG	EET CHI	12/05/23 08:03
Total/NA	Analysis	300.0		5	743830	NMB	EET CHI	11/27/23 13:19
Total/NA	Analysis	SM 2320B		1	744626	SO	EET CHI	11/30/23 11:33
Total/NA	Analysis	SM 2540C		1	743427	CLB	EET CHI	11/21/23 23:09
Total/NA	Analysis	SM 4500 F C		1	744922	SO	EET CHI	12/01/23 17:42
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/20/23 13:12

Client Sample ID: HEN_55
Date Collected: 11/13/23 08:46
Date Received: 12/06/23 07:24

Lab Sample ID: 500-242591-51
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/13/23 08:46

Client Sample ID: HEN_XSG01
Date Collected: 11/13/23 16:18
Date Received: 12/06/23 07:24

Lab Sample ID: 500-242591-55
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/13/23 16:18

Client Sample ID: HEN_YSG_ILRIVER
Date Collected: 11/13/23 00:00
Date Received: 12/06/23 07:24

Lab Sample ID: 500-242591-56
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	745357	DN	EET CHI	11/13/23 00:00

[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: HEN-23Q4

Job ID: 500-242591-15
SDG: HEN_257_803

Laboratory: Eurofins Chicago

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

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

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

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

500-242591 COC

CHAIN-OF-CUSTODY / Analytical Request Document

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500-242591

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Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name.		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_54				TD 11/17		9											X				X		X	X				
2					0902																								
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-17-23	1800		11/17/23	1800	

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)				

30 → 24, 48 → 46, 46 → 44, 52 → 50

KLT

HEN 23Q4
500-242891

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name	23Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)	Project No./ Lab I.D.
23 1	HEN_47	W	G	11-17-23	09'33		6	3		3							X				X		X	X				
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												
13																												
14																												
15																												
16																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	[signature] RAMBOLL	11/17/23	1800	[signature]	11/17/23	1800	

DROP OFF AT LAB

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	KRISTEN THEESFELD					
SIGNATURE of SAMPLER	[signature]	DATE Signed (MM/DD/YY) 11-17-23				

QC: TJD

500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 1

Section A Required Client Information.	Section B Required Project Information.	Section C Invoice Information.
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 133 S 4th, Suite 206	Copy To: Jason Stuckey	Company Name: Vistra Corp
Springfield, IL 62701		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 50022357	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_F	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_12			11/1/23	10:19		3	3		1			1					X		X		X		X	X				SHORT HOLDS-NO2
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0		11-17-23	1800		11/17/23	1800	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Trev Dunlap

SIGNATURE of SAMPLER: Trev Dunlap DATE Signed (MM/DD/YY): 11/17/23

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

QC: KLT

500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:	23Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_F	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_13	WG	G	11-17-23	10:21		12	4	3	4		1						X		X		X		X	X						SHORT HOLDS-NO2
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															
13																															
14																															
15																															
16																															

11-17-23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-17-23	1600		11/17/23	1800	

DROP OFF AT LAB

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:	KRISTEN THEESFELD					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 11-17-23				

QC: TJP

500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information.		Section B Required Project Information.		Section C Invoice Information.	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To.	Jason Stuckey	Company Name	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name		Project Manager	
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

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

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_C	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	HEN_257_801		Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_08&D			1/4/...	1231		12	3	3	3						X	X		X	X	X		X	X	X		X			SHORT HOLDS -NO2
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
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12																														
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14																														
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-17-23	1800		11/17/23	1800	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER.			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER	DATE Signed (MM/DD/YY) 11/16/...					

26

- BTEX in cooler w/ 08

QC KLT

PGN-052424
500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 1 of 1

Section A Required Client Information:		Section B Required Project Information.		Section C Invoice Information	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name	23Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

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

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_C	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	HEN_257_801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
																Requested Analysis Filtered (Y/N)														
1	HEN_08	WT	G	11-17-23	12 32		13	5	3	4		1					X	X		X	X	X		X	X	X		X		SHORT HOLDS -NO2
2	HEN_08_FD	WT	G	11-17-23	12 37		13	5	3	4		1					X	X		X	X	X		X	X	X		X		SHORT HOLDS -NO3
3	TRIP BLANK 02	WT	G	11-17-23																										BTEX
4																														
5																														
6																														
7																														
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15																														
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-17-23	1800		11/17/23	1800	

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:	KRISTEN ITTESFOLD					
SIGNATURE of SAMPLER		DATE Signed (MM/DD/YY): 11-17-23				

DROP OFF AT LAB

QC: TJD

500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information	Section B Required Project Information.	Section C Invoice Information
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 133 S 4th, Suite 206	Copy To: Jason Stuckey	Company Name: Vistra Corp
Springfield, IL 62701		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 50022357	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	HEN_257-801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_17				1417													X				X		X	X			X		
2																														
3																														
4																														
5																														
6																														
7																														
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14																														
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	Jeff Randall	11-13-23	1800		11/17/23	1800	

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):				

KLT

CHAIN-OF-CUSTODY / Analytical Request Document

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COC# HEN-026 500-242591

Page: 1 of 1

Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information.	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name:	23Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT	10 day	Project Number:	50022357	Profile #:	

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

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	HEN_257_801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_16		W	G	11-17-23	14:29		6	3		3						X					X		X	X			X		
2																														
3																														
4																														
5																														
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31

11-17-23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0		11-17-23	18 00		11/17/23	1800	

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:	KRISTEN THEESFELD					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 11-17-23				

DROP OFF AT LAB

QC TJD

HEN-028
500-24259

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 1 of 1

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name	23Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West		Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_46	WG	G	11-20-23	09:13		10	3		3								X				X		X	X				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
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13																													
14																													
15																													
16																													

11-20-23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-21-23	0806		11/21/23	0806	

DROP@ LAB

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	KRISTEN THEESFELD				
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY)	11-20-23	Temp in °C	Received on Ice (Y/N) / Custody Sealed Cooler (Y/N) / Samples Intact (Y/N)

QC: TJD

HEN 536
500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 1 of 1

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name	23 Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West		Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_52	W	G	11-20-23	10:18		6	3		3								X				X		X	X				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-21-23	0806		11/21/23	0806	

DROP @ LAB

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:	KRISTEN THEESFELD				
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY)	11-20-23				

QC: TJD

HEN-2303

500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To.	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name	23 Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_B	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	HEN_257_801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_07	WG		11-20-23	1312		#5	1	4	3	1					X	X			X	X		X	X	X		X		SHORT HOLDS-NO2
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

38

11-20-23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL 11-21-23		0806		11/21/23	0906	

DROP@LAB

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:	KRISTEN THEESFELD				
SIGNATURE of SAMPLER					
DATE Signed (MM/DD/YY):	11-20-23				

QC: TJD

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-242591-15
SDG Number: HEN_257_803

Login Number: 242591
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	5.7,4.9,3.2,4.2,3.0,1.8,5.6,4.6,2.4,4.6,4.4,5.0,,2.3 ,4.9,5.0
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN
Client: VISTRA
Project Number: _____ Task #: _____
Start Date: 11-17-23 Time: 09:59
Field Personnel: KLT
Finish Date: 11-17-23 Time: 11:10

WELL INFORMATION

Well ID: 13
Casing ID: _____ Inches
Screen Interval: _____
Borehole Diameter: _____ Inches
Filter Pack Interval: _____

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth: _____
Stabilized Pumping Rate: _____

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	51.05	10:00	51.07	10:21
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot: _____
Standing Water Column: _____ feet
1 Well Volume: _____ Gallons 3 Well Volumes: _____ Gallons
5 Well Volumes: _____ Gallons 10 Well Volumes: _____ Gallons
Total Volumes Produced: _____ Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: _____
Water Quality Probe Type and Serial # _____

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:06		51.06	0.01	16.44	7.33	922.24	5.20	0.21	175.7	CLEAR
purge	10:09		51.06	0.01	17.91	7.42	915.79	2.22	0.00	173.0	↓
	10:12		51.07	0.02	17.89	7.44	918.41	1.40	0.00	172.3	↓
	10:15		51.07	0.02	17.75	7.45	920.76	1.38	~~0.76~~	171.0	↓
	10:18		51.07	0.02	17.79	7.46	921.75	1.41	0.26	169.7	↓
SAMPLE	10:21	22gal	51.07	0.02	17.76	7.46	922.27	1.42	0.26	168.3	↓

11-17-23

FLOW RATE = 375 mL/min

USED 2ND TO LAST TURB.

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT
Client: VISTRA
Project Number:
Task #:
Start Date: 11-14-23 Time: 0842
Field Personnel: KLT, TJD
Finish Date: 11-14-23 Time:

WELL INFORMATION

Well ID: 50
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	18.26	0842	18.27	0947
DNAPL				
Casing Base				

Water Level Serial #:

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0903		18.26	0.00	11.179	7.089	2.758	10.912	44.9	257.3	Milky
purge	0907		↓	↓	14.569	7.338	960.83	1.513	29.2	254.08	clear
	0911		18.25	-0.01	12.86	7.436	927.49	1.524	21.7	255.89	clear
	0915		↓	↓	12.48	7.487	214.413	1.476	22.9	254.12	clear
	0919		18.27	0.01	15.53	7.485	1014.09	0.758	13.7	244.15	clear
	0923		18.27	0.01	15.5369	7.4851	142.886	0.201	9.72	235.16	clear
	0927		↓	↓	15.611	7.53	183.95	0.201	7.52	228.39	clear
	0931		18.27	0.01	15.613	7.53	80.07	0.246	5.40	222.48	

flow - 350 mL/min

1 of 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT
Project Number:
Field Personnel: KLT, TJD
Task #:
Client: VISTRA
Start Date: 11-14-23
Finish Date: 11-14-23
Time: 0842
Time:

WELL INFORMATION

Well ID: 50
Casing ID: inches

EVENT TYPE

☐ Well Development
☐ Well Volume Approach Sampling
☒ Low-Flow / Low Stress Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PURGE	0935		18.27	0.01	15.659	7.539	848.05	0.268	3.43	218.15	Clear
↓	0939		18.27	0.01	15.716	7.54	1222.49	0.2579	2.14	214.59	Clear
↓	0943		18.27	0.01	15.721	7.54	917.148	0.2438	1.60	210.44	Clear
SAMPLE	0947	~7 GAL	18.27	0.01	15.746	7.54	135.73	0.283	1.25	206.54	clear

11-14-23

NOTES (continued)

ABBREVIATIONS

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

2 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HEN P.P. Client: VISTRA
Project Number: Task #: Start Date: 8/14/23 Time: 1056
Field Personnel: KLT, TJD Finish Date: 8/14/23 Time:

WELL INFORMATION

Well ID: 34
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	8.46	1056	9.75	1126
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Initial	1109		9.58	1.12	13.89	7.40	1,395.7	4.96	9.05 (H)	-91.6	M. Iky
purge	1112		9.07	1.21	12.66	7.15	1,312.6	0.05	11.7 (H)	-90.5	Clear
	1114		9.69	1.22	12.66	7.15	1,312.6	0.05	10.07 (H)	-98.7	Clear
	~~1120~~ 1117		9.75	1.28	12.63	7.16	1,323.4	0.02	9.12 (H)	-102.8	Clear
	1120		9.75	1.28	12.63	7.17	1,334.3	0.01	9.56 (H)	~~-98.7~~ -104.3	Clear
	1123		9.69	1.22	12.57	7.18	1,346.0	0.01	8.23 (H)	-108.6	clear
SAMPLE	1126	2.2	9.75	1.28	12.57	7.18	1,348.9	0.00	6.69	-110.6	Clear

Purge Rate: 350 mL/min
Hatch (H)

KLT 11-14-23

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin P.P. Client: VISTRA
Project Number: Task #: Start Date: 11/14/23 Time: 1200
Field Personnel: KLT, TJD Finish Date: 11/14/23 Time: 1300

WELL INFORMATION

Well ID: ~~HEN-~~32
Casing ID: ~~2~~ Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	4.82	1200	4.87	1244
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1208		4.82	0.00	15.25	7.35	1,037.4	8.12	30.4	-4.0	~~Clear~~ Milky
purge	1211		4.91	0.09	14.07	7.17	1,069.9	0.34	30	14.7	Milky
↓	1214		4.92	0.10	14.08	7.18	1,070	0.21	24.7	14.0	Milky
	1217		4.93	0.11	14.10	7.20	1,070.9	0.17	20.3	22.3	Clear
	1220		4.92	0.10	14.13	7.21	1,047.0	0.15	17.2	29.2	Clear
	1223		4.89	0.07	14.12	7.22	1,043.3	0.15	15.4	28.3	Clear
	1226		4.87	0.05	14.10	7.22	930.14	0.18	12.6	31.5	Clear
	1229		4.86	0.04	14.10	7.22	934.16	0.15	11.1	34.5	Clear

Purge Rate: 350 mL/min

1 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HEN P.P
Client: VISTRA
Project Number:
Task #:
Start Date: 11-14-23 Time: 1200
Field Personnel: KLT & TJD
Finish Date: 11-14-23 Time: 1300

WELL INFORMATION

Well ID: 32
Casing ID: inches

EVENT TYPE

☐ Well Development
☐ Well Volume Approach Sampling
☒ Low-Flow / Low Stress Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PURGE	1232		4.86	0.04	14.09	7.22	974.46	0.16	9.8	37.3	
↓	1235		4.87	0.05	14.15	7.22	981.52	0.16	9.32	39.8	
	1238		4.87	0.05	14.14	7.21	1,070.7	0.15	8.93	42.1	
↓	1241		4.85	0.03	14.10	7.21	1,052.4	0.16	7.53	44.10	
SAMPLE	1244	23.5	4.87	0.05	14.12	7.21	957.55	0.19	6.37	46.9	

11-14-23

NOTES (continued)

ABBREVIATIONS

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

2 of 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin POWER PLANT
Client: VISTRA
Project Number:
Task #:
Field Personnel: KLT / TJD
Start Date: 11/14/23 Time: 1320
Finish Date: 11-14-23 Time:

WELL INFORMATION

Well ID: ~~HEN~~-27
Casing ID: 2" Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: RED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	3.92	13:19	3.97	13:37
DNAPL				
Casing Base				

Water Level Serial #:

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	13:25		3.92	0.00	13.76	7.49	1197.4	2.92	~~K0.00~~ 3.97	-35.4	CLEAR
purge	13:28		3.96	0.04	12.94	7.31	1208.1	1.02	6.54	-35.9	CLEAR
↓	13:31		3.97	0.05	12.84	7.30	1208.9	0.51	6.24	-43.8	CLEAR
	13:34		3.97	0.05	12.76	7.31	1207.9	0.40	6.56	-48.6	CLEAR
SAMPLE	13:37	~1	3.97	0.05	12.74	7.32	1206.3	0.38	6.12	-50.4	CLEAR

~~DUP~~ 11-14-23

PURGE RATE = 275mL/MIN

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN DP
Client: VISTRA
Project Number:
Task #:
Start Date: 11-14-23 Time: 15:40
Field Personnel: KLT / TJD
Finish Date: 11-14-23 Time:

WELL INFORMATION

Well ID: 21R
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	5.81	15:40	5.87	16:22
DNAPL				
Casing Base				

Water Level Serial #:

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1549		5.81	0.00	14.40	7.48	1,120.5	1.42	73.4	-73.1	clear-b
purge	1552		5.90	0.09	13.73	7.54	1,089.9	0.58	73.2	-131.8	brown - murky
	1555		5.92	0.11	13.71	7.56	993.59	0.50	63.4	-146.9	Milky
	1558		5.83	0.02	13.73	7.59	945.60	0.42	60.4	-152.6	slightly Murky
	1601		5.85	0.04	13.64	7.61	955.38	0.38	59.8	-156.8	slightly murky
	1604		5.85	0.04	13.67	7.64	981.4	0.22	47.5	-160.0	↓
	1607		5.84	0.03	13.62	7.66	1,010.0	0.21	45.3	-162.2	slightly murky
	1610		5.85	0.04	13.59	7.67	1,024.4	0.19	39.3	-164.0	↓

Flow Rate: 400 350 ML/min ROTTEN EGG-LIKE ODOR

1 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HEN PP
Project Number: _____ Task #: _____ Client: VISTRA
Field Personnel: KJ TJD Start Date: 11-14-23 Time: 1540
Finish Date: 11-14-23 Time: _____

WELL INFORMATION

Well ID: 21R
Casing ID: _____ inches

EVENT TYPE

☐ Well Development ☒ Low-Flow / Low Stress Sampling
☐ Well Volume Approach Sampling ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PURGE	1613		5.86	0.05	13.54	7.68	1,020.9	0.11	38.1	-163.4	Milky
↓	1616		5.86	0.05	13.54	7.68	1,064.5	0.38	38.8	-166.3	milky
	1619		5.86	0.05	13.50	7.64	1,078.8	0.23	33.3	-166.7	milky
SAMPLE	1622	~4.5	5.87	0.06	13.44	7.70	1,092.0	0.12	31.6	-167.1	milky

11-15-23

NOTES (continued)

ABBREVIATIONS

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

2 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin P.P. Client: VISTRA
Project Number: Task #: Start Date: 11/15/23 Time: 0830
Field Personnel: KLT/TJD Finish Date: 11/15/23 Time:

WELL INFORMATION

Well ID: ~~HEN-~~35
Casing ID: ~~2~~2 Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	8.17	0830	8.20	0856
DNAPL				
Casing Base				

Water Level Serial #:

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0844		8.17	0.00	15.46	6.75	2,416.6	0.43	16.9	239.0	Clear/Brown
purge	0847		8.18	0.01	15.464	6.81	2,414.2	0.28	7.37	236.5	Clear
↓	0850		8.19	0.02	15.47	6.84	2,394.8	0.26	3.84	233.4	Clear
↓	0853		8.19	0.02	15.53	6.85	2,402.7	0.23	1.46	230.1	Clear
SAMPLE	0856	21.5	8.20	0.03	15.56	6.86	2,410.7	0.21	0.60	227.5	Clear

11-15-23

Flow Rate: 325 mL/min
Secondary pH: 6.83

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin PP
Client: VISTRA
Project Number:
Task #:
Start Date: 11/15/23 Time: 1015
Field Personnel: KLT / TJD
Finish Date: 11/15/23 Time:

WELL INFORMATION

Well ID: ~~HEN-5~~ 1
Casing ID: 2" Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	18.44	1015	18.73	1042
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Initial	1023		18.30 ~~44~~	0.00	13.07	7.36	1,501.2	1.42	12.8	-67.5	Milky
purge	1026		18.~~72~~69	0.06	13.00	7.38	1,507.7	0.60	12.1	-95.3	Clear
↓	1027		18.72	0.28	13.03	7.39	1,507.9	0.43	~~17.1~~ 12.5	-101.7	CLEAR
	1030		18.73	0.29	13.02	7.41	1,505.6	0.27	17.1	-110.9	Clear
	1033		18.75	0.31	12.98	7.42	1,506.9	0.20	19.7	-116.6	Clear
	1036		18.75	0.31	13.01	7.42	1,506.0	0.16	16.4	-120.3	Clear
↓	1039		18.~~73~~	0.29	12.99	7.43	1,506.2	0.14	16.0	-123.1	clear
SAMPLE	1042	~1.5	18.73	0.29	13.01	7.43	1,505.3	0.13	14.5	-124.9	Clear

- PURGE RATE ~ 300mL/min
- Secondary pH: 7.42 (1027) time, 7.33 (1036) time
- ~~DUP~~ DUP01 (1047)

1 OF 1 ~~#22~~

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HEN P.P. Client: VISTRA
Project Number: Task #: Start Date: 11/15/23 Time: 1215
Field Personnel: KLT & TJD Finish Date: 11/15/23 Time: 1236

WELL INFORMATION

Well ID: ~~HEN-~~23
Casing ID: 2 Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	~~16.67~~ ~~18.67~~	~~8.67~~ 1215	16.78	1236
DNAPL	PNP			
Casing Base				

Water Level Serial #:

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1230		16.78	0.11	13.61	7.46	1,674.4	6.17	1.61 (H)	-80.9	Clear
purge	1233		16.77	0.10	13.57	7.48	1,672.3	0.10	2.13 (H)	-86.2	Clear*
SAMPLE	1236	20.5	16.78	0.11	13.57	7.51	1,673.5	0.08	2.69 (H)	-88.1	Clear*

11-15-23

(H)

* w/ flocculant

1 of 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HEN P.P. Client: VISTRA
Project Number: Task #: Start Date: 11/15/23 Time: 1330
Field Personnel: KTS, TJD Finish Date: 11/15/23 Time:

WELL INFORMATION

Well ID: HEN-49
Casing ID: [illegible] Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	21.67	1330	21.52	1358
DNAPL				
Casing Base				

Water Level Serial #:

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1340		21.50	- 0.17	15.38	7.15	1,430.2	2.00	4.65	-33.0	Clear
purge	1343		21.51	- 0.16	15.02	7.13	1,441.7	0.07	12.1	-11.0	Clear
	1346		21.51	- 0.16	15.01	7.14	1,440.5	0.15	15.4	-3.4	Clear
	1349		21.53	- 0.14	14.94	7.16	1,442.1	0.09	13.0	1.3	clear
	1352		21.56	- 0.11	15.60	7.17	1,440.7	0.08	11.4	5.0	clear
↓	1355		21.53	- 0.14	14.94	7.18	1,442.4	0.06	9.8	8.2	clear
SAMPLE	1358	~2	21.52	- 0.15	14.92	7.19	1,440.4	0.06	9.23	* 11.1	clear

* Strong odor (rotten egg like)
MS/MSD01

11-15-23

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin P.P. Client: VISTRA
Project Number: Task #: Start Date: 11/15/23 Time: 1455
Field Personnel: KH & TJD Finish Date: 11/15/23 Time:

WELL INFORMATION

Well ID: HEN-221D
Casing ID: 2" Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	19.88	1455	19.26	1537
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1458		19.0824	0.16	16.64	7.35	1,019.4	1.34	3.24	-126.6	clear*
purge	1501		19.25	0.17	16.37	7.30	1,375.3	0.78	2.15	-115.1	clear*
↓	1504		19.25	0.17	16.32	7.32	259.97	0.69	3.34	-113.9	clear
	1507		19.25	0.17	16.21	7.33	1,218.6	0.64	4.21	-113.4	clear
	1510		19.2828	0.20	16.24	7.35	1,249.5	0.80	3.39	-112.1	clear
	1513		19.28	0.20	16.19	7.37	590.13	1.29	2.68	-113.5	clear
	1516		19.28	0.20	16.23	7.38	937.92	0.64	2.26	-113.6	clear
↓	1519		19.29	0.21	16.16	7.40	1,268.9	0.81	3.54	-112.7	clear

- Flow Rate: 325 mL/min
- Secondary pH: 7.38 (1510) time
- (*) flocculent
- Bubbles, possibly from line in well

1 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HEN P.O
Project Number:
Task #:
Client: VISTRA
Field Personnel: KLT & TJD
Start Date: 11-15-23 Time: 1455
Finish Date: 11-15-23 Time:

WELL INFORMATION

Well ID:
Casing ID: inches

EVENT TYPE

☐ Well Development
☐ Well Volume Approach Sampling
☒ Low-Flow / Low Stress Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PURGE	1522		19.27	0.19	16.15	7.40	1,246.4	0.55	2.17	-113.2	clear
↓	1525		19.24	0.16	16.11	7.41	1,452.2	0.81	2.18	-112.9	clear*
	1528		19.26	0.18	16.15	7.41	1,339.8	0.81	2.66	-112.9	clear*
	1531		19.24	0.16	16.08	7.42	1,447.4	0.96	2.50	-112.3	clear*
	1534		19.24	0.16	16.08	7.42	1,333.6	0.92	2.72	-112.1	clear*
SAMPLE	1537	25	19.26	0.18	16.22	7.42	1,361.1	0.72	2.17	-112.1	clear*

11-15-23

NOTES (continued)

ABBREVIATIONS

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

2 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin P.P. Client: VISTRA
Project Number: Task #: Start Date: 11/15/23 Time: 1540
Field Personnel: KLT / TJD Finish Date: 11/15/23 Time:

WELL INFORMATION

Well ID: HEH-22
Casing ID: 2 Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	18.45	1540	18.45	16:18
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1606		18.47	0.02	15.88	7.67	1,357.8	0.20	0.64	-52.4	clear
purge	1609		18.46	0.01	15.81	7.68	1,355.8	0.15	0.55	-51.2	clear
↓	1612		18.45	0.00	15.74	7.70	1,353.2	0.13	0.55	-50.1	clear
↓	1615		18.47	0.02	15.69	7.71	1,350.2	0.11	0.77	-49.0	clear
SAMPLE	1618	20.5	18.45	0.00	15.68	7.72	1,353.0	0.11	0.49	-48.4	clear

11-15-23

*Flow Rate: 250 mL/min

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT
Client: VISTRA
Project Number:
Task #:
Start Date: 11-16-23 Time: 08:54
Field Personnel: KLT, TJD
Finish Date: 11-16-23 Time:

WELL INFORMATION

Well ID: 03R
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED Bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	34.97	08:54	34.99	9:25
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0916		34.98	0.01	17.12	7.23	1,731.5	0.15	6.00	208.7	clear
purge	0918		34.97	0.00	17.10	7.216	1,730.9	0.13	4.30	205.0	clear
↓	0922		34.98	0.01	17.18	7.24	1,732.8	0.11	3.00	203.6	clear
SAMPLE	0925	20.5	34.99	0.02	17.18	7.25	1,727.1	0.11	2.34	203.1	clear

11-16-23

MS/MSD02

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Power Plant
Client: VISTRA
Project Number:
Task #:
Start Date: 11/16/23 Time: 1100
Field Personnel: KLT TJD
Finish Date: 11/16/23 Time:

WELL INFORMATION

Well ID: HEN-185
Casing ID: ~~2~~ Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- [ ] Well Development
- [x] Low-Flow / Low-Stress Sampling
- [ ] Well Volume Approach Sampling
- [ ] Other (Specify below)

PURGE INFORMATION

Purge Method: [ ] Bailer [x] Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	40.72	1100	40.76	11.32
DNAPL				
Casing Base				

Water Level Serial #:

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: [ ] Well Casing [ ] Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? [ ] Yes [ ] No

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1123		40.74	0.02	16.45	7.47	1,6490.0	0.61	2.26	128.7	clear
purge	1126		40.76	0.04	16.99	7.44	1,648.0	0.24	1.42	126.8	clear
↓	1129		40.75	0.03	17.00	7.46	1,648.8	0.19	1.31	123.0	clear
SAMPLE	1132	20.5	40.76	0.04	17.01	7.45	1,648.2	0.17	0.91	121.2	clear

TJD 11-16-23

1 of 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HEN POWER PLANT
Client: VISTRA
Project Number:
Task #:
Start Date: 11/16/23 Time:
Field Personnel: TJP
Finish Date: 11/16/23 Time:

WELL INFORMATION

Well ID: ~~HEN-051R~~
Casing ID: ~~2~~ Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	41.25	13:30	41.26	13:49
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1340		41.25	0.00	17.07	7.66	1,592.7	1.55	3.45	69.6	Clear
purge	1343		41.26	0.01	17.07	7.69	1,589.7	0.43	3.30	69.4	Clear
↓	1346		41.26	0.01	17.06	7.71	1,588.3	0.17	3.50	68.6	Clear
SAMPLE	1349	20.5	41.26	0.01	17.06	7.72	1,589.1	0.12	2.66	68.3	Clear

Flow Rate: 375 mL/min

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: ~~HEN-10~~ Hennepin P P Client: VISTRA
Project Number: Task #: Start Date: 11/16/23 Time: 1515
Field Personnel: TJD Finish Date: 11/16/23 Time:

WELL INFORMATION

Well ID: ~~HEN-~~10
Casing ID: ~~2~~ Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	50.607	1525 ~~1555~~ BJ	50.606	1541
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1529		50.606	-0.01	~~7.19~~ 19.53	7.14	1,654.2	2.07	0.68	114.9	
purge	1532		50.607	0.00	19.609	7.13	1,664.1	1.64	0.64	114.9	
↓	1535		50.606	-0.01	19.776	7.13	1,843.1	1.60	0.52	114.1	
↓	1538		50.605	-0.02	19.80	7.12	1,844.1	1.59	0.67	113.9	
SAMPLE	1541	20.5	50.606	-0.01	19.80	7.12	1,844.6	1.59	0.70	113.7	

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin PP
Client: VISTRA
Project Number:
Task #:
Start Date: 11-17-23 Time: ~~0915~~ 0853
Field Personnel: TJD
Finish Date: 11-17-23 Time: ~~0945~~ 0903

WELL INFORMATION

Well ID: HEN 54
Casing ID: ~~Ø2~~ Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	53.10	0853	53.10	0902
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0853		53.10	0.00	16.45	7.37	4,740.1	1.48	4.36	230.5	
purge	0856		53.11	0.01	17.03	7.32	4,715.8	1.01	3.59	215.6	
↓	0859		53.11	0.01	17.04	7.35	4,708.0	0.68	2.41	212.8	
SAMPLE	0902	20.5	53.10	0.00	16.47	7.36	4,702.0	0.57	3.19	208.6	
				~~TJD~~	11-17-23						

1 of 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin POWER PLANT
Client: VISTRA
Project Number:
Task #:
Start Date: 11-17-23 Time: 0955
Field Personnel: JJD
Finish Date: 11-17-23 Time:

WELL INFORMATION

Well ID: ~~HEN~~ 12
Casing ID: ~~PVC~~ 2 Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: Bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	51.03	0955	51.08	1019
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1007		51.06	-0.02	18.50	7.37	4,770	2.41	1.32	157.4	Clear
purge	1010		51.07	-0.01	18.64	7.36	4,719.0	2.36	1.09	153.6	Clear
↓	1013		51.07	-0.01	18.72	7.36	4,719.6	2.33	1.02	147.0	Clear
	1016		51.08	0.00	18.69	7.35	4,717.4	2.31	1.31	144.7	clear
SAMPLE	1019	2 /	51.08	0.00	18.67	7.35	4,713.8	2.30	1.04	140.1	Clear

Flow Rate: 300 mL/min

1 of 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin River Plant
Client: NISTRA
Project Number:
Task #:
Start Date: 11-17-23 Time: 1222
Field Personnel: TJD
Finish Date: 11-17-23 Time: 1231

WELL INFORMATION

Well ID: ~~HEN-~~03D
Casing ID: ~~2~~2 Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	54.03	1222	54.04	1231
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1222		54.04	-0.01	13.62	6.78	11,673	0.44	2.14	154.6	Clear
purge	1225		54.04	-0.01	13.60	6.76	11,033	0.32	2.25	153.8	Clear
↓	1228		54.04	-0.01	13.59	6.76	11,037	0.16	2.18	153.0	Clear
SAMPLE	1231	~1	54.04	-0.01	13.63	6.76	11,218	0.12	1.36	152.3	Clear
							TD	11-17-23			

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin P.P. Client: VISTRA
Project Number: Task #: Start Date: 11/17/23 Time: 1400
Field Personnel: TJD Finish Date: 11/17/23 Time:

WELL INFORMATION

Well ID: ~~MW-1~~ 17
Casing ID: ~~2~~ 2 Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth: 1
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	55.35	1400	55.36	14:17
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1403		55.35	0.00	17.85	7.31	4,370.2	5.75	2.06	135.0	clear
purge	1411		55.35	0.00	17.84	7.34	4,734.2	5.71	1.13	130.6	↓
↓	1414		55.36	0.01	17.87	7.34	4,726.7	5.70	1.40	130.3	
SAMPLE	1417	~1	55.36	0.01	17.84	7.34	4,723.0	5.64	1.05	130.9	↓

Flow Rate = 360 mL/min

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin P.P
Client: VISTRA
Project Number:
Task #:
Start Date: 11/20/23 Time:
Field Personnel: TJD
Finish Date: 11/20/23 Time:

WELL INFORMATION

Well ID: ~~HEN-455~~
Casing ID: ~~2~~ Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	20.55	0851	20.56	0915
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0851		20.55	0.00	14.00	7.17	6,047.3	0.31	115	202.4	Murky
purge	0854		20.55	0.00	18.12	7.19	5,999.3	0.15	98	201.5	cloudy
	0857		20.60	0.05	18.08	7.20	5,485.8	0.11	116	200.2	cloudy
	0900		20.55	0.00	18.15	7.20	5,977.5	0.10	95	198.4	cloudy
	0903		20.55	0.00	18.22	7.20	5,969.5	0.09	87.6	196.4	cloudy
	0906		20.56	0.01	17.85	7.20	5,970.3	0.11	76.8	195.0	cloudy
	0909		20.56	0.01	18.25	7.20	5,963.6	0.10	88.7	192.7	cloudy
	0912		20.56	0.01	18.27	7.20	5,963.6	0.10	48.3	189.9	cloudy

1 of 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HEN POWER PLANT Client: VISTRA
Project Number: Task #: Start Date: 11-20-23 Time:
Field Personnel: Finish Date: 11-20-23 Time:

WELL INFORMATION

Well ID: 455
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
SAMPLE	0915	23	20.56	0.01	13.22	7.20	5.96k.3	0.09	40.3	138.1	cloudy

NOTES (continued)

ABBREVIATIONS

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

2 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin P P. Client: VISTRA
Project Number: Task #: Start Date: 11/28/23 Time:
Field Personnel: TJD Finish Date: 11/28/23 Time:

WELL INFORMATION

Well ID: HEN-52
Casing ID: ~~2~~ 2 Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☑ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☑ Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	45.15	1119	45.14	1130
DNAPL				
Casing Base				

Water Level Serial #:

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1119		45.15	0.00	12.10	7.02	6.053.4	2.32	1.37	146.2	Clear
purge	1122		45.15	0.00	12.07	7.03	6.045.7	2.82	1.08	146.2	↓
↓	1125		45.15	0.00	12.04	7.04	6.053.3	2.82	0.62	146.4	↓
↓	1128		45.14	-0.01	12.07	7.04	6.037.5	2.83	0.44	146.4	↓
SAMPLE	1130	2 l	45.14	-0.01	12.07	7.04	6.025.4	2.83	0.89	146.5	↓

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT — Client: VISTRA
Project Number: — Task #: — Start Date: 11-20-23 Time: 12:30
Field Personnel: K. LITTLE — Finish Date: 11-20-23 Time:

WELL INFORMATION

Well ID: 07
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	68.55	12:37	68.54	13:12
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons — 3 Well Volumes: Gallons
5 Well Volumes: Gallons — 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☐ No

Water Level Serial #: — Water Quality Probe Type and Serial #:

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1251		68.55	0.00	11.45	6.47	7,370.3	4.23	0.44	176.0	clear*
purge	1254		68.55	0.00	11.46	6.97	7,376.4	4.11	0.78	174.9	clear*
↓	1257		68.55	0.00	11.49	6.97	7,355.1	4.05	0.00	173.4	clear*
	1300		68.55	0.00	11.33	6.97	7,322.8	4.02	0.11	173.3	clear
	1303		68.55	0.00	10.99	6.97	7,330.9	4.01	0.67	173.0	clear
	1306		68.54	-0.01	11.42	6.97	7,303.0	4.03	0.51	172.1	clear
↓	1309		68.55	0.00	11.40	6.97	7,334.2	4.05	0.61	171.8	↓
SAMPLE	1312	~2.5	68.54	-0.01	11.42	6.96	7,297.8	4.01	0.64	171.3	↓

* pump battery was changed

* w/ light brown flocculent
Flow Rate: 425 mL/min

* Turbidity measurement is (-) -0.01, even when checked w/ standard

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT
Client: VISTRA
Project Number:
Task #:
Start Date: 11-16-23 Time: 10:56
Field Personnel: KLT
Finish Date: 11-16-23 Time: 12:50

WELL INFORMATION

Well ID: 18D
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	40.80	10:56	40.87	11:55
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	11:13		40.90	0.10	16.90	7.18	3.05	3.25	~~8.40~~	167.8	CLEAR
purge	11:16		40.91	0.11	16.97	7.13	56.39	2.45	14.0	151.4	CLEAR
↓	11:19		40.92	0.12	17.01	7.10	58.02	4.52	18.4	126.6	CLEAR
	11:22		40.96	0.16	17.03	7.07	2.48	4.69	17.7	103.3	CLEAR
	11:25		40.92	0.12	17.06	7.10	45.75	6.21	19.3	54.9	CLEAR
	11:28		40.87	0.07	17.05	7.00	56.35	5.54	15.4	33.8	CLEAR
↓	11:31		40.86	0.06	~~17.15~~	6.92	37.17	6.15	17.5	39.8	CLEAR
	11:34		40.86	0.06	17.21	6.90	41.52	6.06	14.8	54.3	CLEAR

SECONDARY pH READ 7.02

FLOW RATE @ 350mL/min
drop to 275 mL/min @ 11:22

1 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT
Client: VISTRA
Project Number:
Task #:
Start Date: 11-16-23 Time: 10:56
Field Personnel: KLT
Finish Date: 11-16-23 Time: 1250

WELL INFORMATION

Well ID: 18D
Casing ID: inches

EVENT TYPE

☐ Well Development
☐ Well Volume Approach Sampling
☒ Low-Flow / Low Stress Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PURGE	11:37		40.86	0.06	17.39	7.03	53.42	5.64	14.2	61.1	CLEAR
	11:40		40.86	0.06	17.62	6.97	43.42	5.58	—	71.0	CLEAR
	11:43		40.87	0.07	17.80	6.88	9.32	5.24	13.5	71.8	CLEAR
	11:46		40.87	0.07	18.04	6.86	8.05	5.32	10.6	77.0	CLEAR
	11:49		40.87	0.07	18.25	6.87	14.40	4.94	12.2	82.5	CLEAR
	11:52		40.87	0.07	18.37	6.74	20.93	4.21	9.76	76.7	CLEAR
SAMPLE	11:55	4gal	40.87	0.07	18.59	6.74	14.81	4.80	10.28	75.5	CLEAR

11-16-23

NOTES (continued)

ABBREVIATIONS

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

2 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT
Client: VISTRA
Project Number:
Task #:
Field Personnel: KLT
Start Date: 11-16-23 Time: 13:15
Finish Date: 11-16-23 Time: 14:35

WELL INFORMATION

Well ID: 05DR
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED Bladder
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	41.20	13:15	41.30	13:46
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	13:34		41.30	0.10	16.95	7.37	1,310.7	3.57	1.57	94.3	CLEAR
purge	13:37		41.30	0.10	17.00	7.39	1,311.3	1.98	0.80	91.1	CLEAR
↓	13:40		41.30	0.10	17.00	7.40	1,359.8	1.14	1.22	88.2	CLEAR
	13:43		41.30	0.10	17.00	7.41	13584	0.95	1.86	85.8	CLEAR
↓	13:46	~2gal	41.30	0.10	16.99	7.41	1,359.9	0.91	1.87	84.2	CLEAR

11-16-23

FLOW RATE = 200mL/min

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HEN P.P. Client: VISTRA
Project Number: Task #: Start Date: 11-16-23 Time: 14:50
Field Personnel: KLT Finish Date: 11-16-23 Time: 15:48

WELL INFORMATION

Well ID: 40S
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	40.45	14:55	40.47	15:19
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	15:07		40.45	0.00	17.06	7.79	1,276.6	0.89	0.50	58.5	CLEAR
purge	15:10		40.46	0.01	17.10	7.80	1,277.1	0.24	0.67	56.2	CLEAR
	15:13		40.47	0.02	17.09	7.81	1,276.4	0.17	0.66	54.4	CLEAR
↓	15:16		40.47	0.02	17.08	7.81	1,276.4	0.14	0.48	53.0	CLEAR
SAMPLE	15:19	2.2gal	40.47	0.02	17.07	7.81	1,276.6	0.12	0.27	51.8	↓

11-16-23

FLOW RATE = 400mL/min

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT
Client: VISTRA
Project Number:
Task #:
Field Personnel: KLJ
Start Date: 11-17-23 Time: 08:25
Finish Date: 11-17-23 Time:

WELL INFORMATION

Well ID: 47
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	55.52	08:27	55.53	09:33
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	initial	~~08:43~~		55.53	0.01	17.42	6.92	1,037.1	2.04	0.23	230.8	CLEAR
	purge	08:47		55.53	0.01	17.67	6.92	1,032.6	1.77	0.30	228.5	CLEAR
	↓	08:50		55.53	0.01	17.80	6.96	1,035.2	1.74	0.27	224.2	CLEAR
		08:53		55.53	0.01	17.79	6.98	1,031.5	1.69	—	221.3	CLEAR
*	↓	09:20		55.53	0.01	17.95	7.05	1,046.0	1.69	0.00	193.9	CLEAR
	↓	09:23		55.53	0.01	17.96	7.07	1,085.4	1.616	0.00	192.6	CLEAR
	↓	09:27		55.53	0.01	17.85	7.07	1,044.0	1.59	0.00	191.9	CLEAR
	↓	09:30		55.53	0.01	17.89	7.07	1044.4	1.57	0.00	190.7	CLEAR

* TUBING AIR LEAK? BUBBLES IN LINE
EUROFINS PICKUP CAME EARLY (08:55) HAD TO STOP TEST TO DROP SAMPLES

FLOW RATE ~ 350mL/MIN

1 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN P.P. Client: VISTRA
Project Number: Task #: Start Date: ~~11-16-23~~ 11-17-23 Time: 09:25
Field Personnel: KLJ Finish Date: 11-17-23 Time: 09:57

WELL INFORMATION

Well ID: 47
Casing ID: inches

EVENT TYPE

☐ Well Development ☒ Low-Flow / Low Stress Sampling
☐ Well Volume Approach Sampling ☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
SAMPLE ~~PURGE~~	09:33	4gal	55.53	0.01	17.87	7.07	1043.6	1.56	0.00	189.7	CLEAR

11-17-23

NOTES (continued)

ABBREVIATIONS

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

2 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT
Project Number:
Field Personnel: KLT
Task #:
Client: VISTRA
Start Date: 11-17-23 Time: 11:21
Finish Date: 11-17-23 Time: 13:53

WELL INFORMATION

Well ID: 08
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: GED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	53.85	12:11	53.88	12:29
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	12:17		53.89	0.04	13.80	6.88	2,039.5	2.58	0.24	168.2	CLEAR
purge	12:20		53.88	0.03	13.75	6.88	2,068.8	1.30	0.38	168.7	↓
↓	12:23		53.88	0.03	13.70	6.89	2,135.7	1.02	0.09	168.5	↓
↓	12:26		53.87	0.02	13.70	6.89	2,130.7	1.58	0.06	168.6	↓
↓	12:29		53.88	0.03	13.63	6.89	2,132.0	1.36	0.03	168.7	↓
SAMPLE	12:32		53.88	0.03							
					11-17-23						

DUP03

~300 ML/MIN

CALLED EUROFINS - AMMONIA BOTTLE MISSING FROM DUP KIT. CAN PULL FROM PHENOLS BOTTLE - FOLLOWUP WAS JUST A DIFFERENT STYLE BOTTLE

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN P.P. Client: VISTRA
Project Number: Task #: Start Date: 11-17-23 Time: 13:55
Field Personnel: KLT Finish Date: 11-17-23 Time:

WELL INFORMATION

Well ID: 16
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	54.42	14:05	54.49	14:29
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	14:11		54.45	0.03	17.31	7.32	911.80	7.73	0.51	146.0	MILKY
purge	14:14		54.48	0.06	15.78	7.34	913.76	6.56	0.18	148.6	CLEAR
↓	14:17		54.49	0.07	15.57	7.33	915.96	6.16	0.29	149.7	↓
	14:20		54.49	0.07	15.50	7.34	916.04	6.05	0.26	150.0	
	14:23		54.48	0.06	15.27	7.34	915.63	6.01	0.19	150.6	
	14:26		54.49	0.07	15.33	7.34	915.63	5.98	0.09	150.8	
SAMPLE	14:29		54.49	0.07	15.24	7.34	915.25	5.98	0.14	151.1	↓
					11-17-23						

FLOW RATE=

1 OF 1

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT Client: VISTRA
Project Number: Task #: Start Date: 11-20-23 Time: 0828
Field Personnel: KLT Finish Date: 11-20-23 Time: 0935

WELL INFORMATION

Well ID: 416
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	51.58	0831	51.58	0913
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	0843		51.58	0.00							FORGOT TO START
purge	0846		51.58	0.00	17.56	7.04	952.47	3.67	0.64	246.1	CLEAR
↓	0849		51.58	0.00	17.62	7.08	587.69	3.21	0.19	242.5	↓
	0852		51.58	0.00	17.62	7.15	545.35	3.12	1.09	237.3	
	0855		51.58	0.00	17.94	7.19	413.39	3.08	1.07	233.5	
	0858		51.58	0.00	18.03	7.22	441.05	3.03	0.53	230.4	
	0901		51.58	0.00	18.05	7.23	435.64	3.01	0.50	228.1	
↓	0904		51.58	0.00	18.30	7.23	450.28	2.99	0.54	227.0	↓

FLOW ~ 375 mL/MIN

1 OF 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HEN POWER PLANT
Client:
Project Number:
Task #:
Field Personnel: KLT
Start Date: 11-20-23 Time: 0828
Finish Date: 11-20-23 Time: 0935

WELL INFORMATION

Well ID: 4Q
Casing ID: inches

EVENT TYPE

☐ Well Development
☐ Well Volume Approach Sampling
☒ Low-Flow / Low Stress Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PURGE	0907		51.58	0.00	18.08	7.25	433.23	2.98	0.00	224.7	CLEAR
↓	0910		51.58	0.00	18.14	7.26	440.23	2.96	0.12	222.7	
SAMPLE	0913	~3.5	51.58	0.00	18.16	7.27	442.66	2.95	0.24	221.0	↓

11-20-23

NOTES (continued)

ABBREVIATIONS

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

20F2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT
Client: VISTRA
Project Number:
Task #:
Start Date: 11-20-23 Time: 09:39
Field Personnel: KLT
Finish Date: 11-20-23 Time: 10:41

WELL INFORMATION

Well ID: 52
Casing ID: Inches
Screen Interval:
Borehole Diameter: Inches
Filter Pack Interval:

EVENT TYPE

- ☐ Well Development
- ☒ Low-Flow / Low-Stress Sampling
- ☐ Well Volume Approach Sampling
- ☐ Other (Specify below)

PURGE INFORMATION

Purge Method: ☐ Bailer ☒ Pump
Bailer Type: n/a
Pump Type and Serial #: QED BLADDER
Tube/Pump Intake Depth:
Stabilized Pumping Rate:

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Time (24-Hour)	Depth FT BTOC	Time (24-Hour)
LNAPL				
Groundwater	53.93	09:42	54.01	10:18
DNAPL				
Casing Base				

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☐ Well Casing ☐ Borehole
Volume Per Foot:
Standing Water Column: feet
1 Well Volume: Gallons 3 Well Volumes: Gallons
5 Well Volumes: Gallons 10 Well Volumes: Gallons
Total Volumes Produced: Gallons
Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #:
Water Quality Probe Type and Serial #

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	09:51		53.97	0.04	17.86	7.09	1,111.9	2.52	21.8	209.5	CLEAR
purge	09:54		54.00	0.07	18.06	7.09	1,117.3	2.20	5.34	208.5	
	09:57		54.00	0.07	18.20	7.07	1,124.7	2.21	4.30	207.7	
	10:00		54.01	0.08	18.38	7.06	1,128.9	2.23	3.27	207.1	
	10:03		54.01	0.08	18.46	7.06	1,130.1	2.25	3.16	205.5	
	10:06		54.01	0.08	18.36	7.07	1,128.8	2.26	2.25	204.2	
	10:09		54.01	0.08	18.50	7.06	1,129.5	2.26	2.01	203.2	
↓	10:12		54.01	0.08	18.39	7.08	1,128.7	2.27	1.58	201.0	↓

FLOW ~ 375 mL/MIN

1 of 2

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: HENNEPIN POWER PLANT
Client: VISTRA
Project Number:
Task #:
Field Personnel: KLT
Start Date: 11-20-23 Time: 09:39
Finish Date: 11-20-23 Time: 10:41

WELL INFORMATION

Well ID: 52
Casing ID: inches

EVENT TYPE

☐ Well Development
☐ Well Volume Approach Sampling
☒ Low-Flow / Low Stress Sampling
☐ Other (Specify):

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
PURGE	10:15		54.01	0.08	18.43	7.09	1,129.2	2.28	1.33	199.5	CLEAR
SAMPLE	10:18	~4	54.01	0.08	18.47	7.09	1,129.6	2.30	1.01	198.1	↓

11-20-23

NOTES (continued)

SECONDARY pH @ 10:18 = 7.19

ABBREVIATIONS

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

2 of 2

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: HEN
Event: HEN-23Q4 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
02	HEN_02	11-13-23	12:11	45.08		KLT
03R	HEN_03R	11-13-23	10:47	35.50		KLT
04R	HEN_04R	11-13-23	11:55	39.54		KLT
05R	HEN_05!R	11-13-23	11:09	41.37		KLT
05DR	HEN_05&DR	11-13-23	11:08	41.44		KLT
06	HEN_06	11-13-23	10:30	22.82		KLT
07	HEN_07	11-13-23	17:00	68.54		KLT
08	HEN_08	11-13-23	07:50	54.02		KLT
08D	HEN_08&D	11-13-23	07:38	54.23		KLT
10	HEN_10	11-13-23	09:35	50.80		KLT
11	HEN_11	11-13-23	09:37	51.00		KLT
12	HEN_12	11-13-23	08:37	52.26		KLT
13	HEN_13	11-13-23	08:40	51.25		KLT
15	HEN_15	11-13-23	08:15	49.67		KLT
16	HEN_16	11-13-23	08:01	54.67		KLT
17	HEN_17	11-13-23	12:05	56.23		KLT
18S	HEN_18#S	11-13-23	10:59	40.85		KLT
18D	HEN_18&D	11-13-23	10:57	40.95		KLT
19S	HEN_19#S	11-13-23	NM	NM	CASING BROKEN	KLT
19D	HEN_19&D	11-13-23	11:33	40.21		KLT

Page 1 of 2

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: HEN
Event: HEN-23Q4 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
21R	HEN_21R	11-13-23	14:25	5.77		KLT
22	HEN_22	11-13-23	13:32	18.93		KLT
22D	HEN_22&D	11-13-23	13:40	22.10		KLT
23	HEN_23	11-13-23	13:55	17.69		KLT
25	HEN_25	11-13-23	15:42	15.84		KLT
26	HEN_26	11-13-23	15:46	15.91		KLT
27	HEN_27	11-13-23	14:56	3.91		KLT
30	HEN_30	11-13-23	14:48	6.44		KLT
31	HEN_31	11-13-23	14:50	7.34		KLT
32	HEN_32	11-13-23	15:10	4.79		KLT
33	HEN_33	11-13-23	15:22	3.58		KLT
34	HEN_34	11-13-23	14:38	8.15		KLT
@14:30 → 35	HEN_35	11-13-23	14:15	8.37		KLT
36	HEN_36	11-13-23	15:56	15.27		KLT
40S	HEN_40#S	11-13-23	11:28	40.61		KLT
45S	HEN_45#S	11-13-23	10:35	21.45		KLT
46	HEN_46	11-13-23	08:35	51.46		KLT
47	HEN_47	11-13-23	09:08	55.72		KLT
48	HEN_48	11-13-23	NM	NM	CASING LIKELY COMPROMISED NEAR BY HORNETS	KLT MUD
49	HEN_49	11-13-23	13:47	21.49		KLT
50	HEN_50	11-13-23	13:24	18.24		KLT
51	HEN_51	11-13-23	14:00	18.59		KLT
52	HEN_52	11-13-23	09:12	53.88		KLT
54	HEN_54	11-13-23	08:52	53.31		KLT
55	HEN_55	11-13-23	08:46	51.26		KLT
XPW01	HEN_XPW01_pore	11-13-23	16:36	11.43		KLT
XPW02	HEN_XPW02_pore	11-13-23	16:28	15.61		KLT
XPW03	HEN_XSG01_pore	11-13-23	16:16	7.14		KLT
XSG01	HEN_XSG01	11-13-23	16:18	10.28		KLT
SG02	HEN_YSG_ILRIVER					
53		11-13-23	09:26	55.68	U:10/03/23 JRK	KLT

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 12/27/23 18:11:03

JOB DESCRIPTION

HEN-23Q4
HEN_257_803_RAD

JOB NUMBER

500-242591-16

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

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Authorization



Generated
12/27/23 18:11:03

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Case Narrative

Client: Vistra Energy Corp
Project: HEN-23Q4

Job ID: 500-242591-16

Job ID: 500-242591-16 — Eurofins Chicago

Job Narrative
500-242591-16

Receipt
The samples were received on 11/15/2023 11:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 15 coolers at receipt time were 1.8º C, 2.3º C, 2.4º C, 3.0º C, 3.2º C, 4.2º C, 4.4º C, 4.6º C, 4.6º C, 4.9º C, 4.9º C, 5.0º C, 5.0º C, 5.6º C and 5.7º C.

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

Detection Summary

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_54 — Lab Sample ID: 500-242591-22

No Detections.

Client Sample ID: HEN_47 — Lab Sample ID: 500-242591-23

No Detections.

Client Sample ID: HEN_12 — Lab Sample ID: 500-242591-24

No Detections.

Client Sample ID: HEN_13 — Lab Sample ID: 500-242591-25

No Detections.

Client Sample ID: HEN_08&D — Lab Sample ID: 500-242591-26

No Detections.

Client Sample ID: HEN_08 — Lab Sample ID: 500-242591-27

No Detections.

Client Sample ID: HEN_08_FD — Lab Sample ID: 500-242591-28

No Detections.

Client Sample ID: HEN_17 — Lab Sample ID: 500-242591-30

No Detections.

Client Sample ID: HEN_16 — Lab Sample ID: 500-242591-31

No Detections.

Client Sample ID: HEN_46 — Lab Sample ID: 500-242591-35

No Detections.

Client Sample ID: HEN_52 — Lab Sample ID: 500-242591-37

No Detections.

Client Sample ID: HEN_07 — Lab Sample ID: 500-242591-38

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 500-242591-16
SDG: HEN_257_803_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: HEN-23Q4

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-242591-22	HEN_54	Water	11/17/23 09:02	11/17/23 18:00
500-242591-23	HEN_47	Water	11/17/23 09:33	11/17/23 18:00
500-242591-24	HEN_12	Water	11/17/23 10:19	11/17/23 18:00
500-242591-25	HEN_13	Water	11/17/23 10:21	11/17/23 18:00
500-242591-26	HEN_08&D	Water	11/17/23 12:31	11/17/23 18:00
500-242591-27	HEN_08	Water	11/17/23 12:32	11/17/23 18:00
500-242591-28	HEN_08_FD	Water	11/17/23 12:37	11/17/23 18:00
500-242591-30	HEN_17	Water	11/17/23 14:17	11/17/23 18:00
500-242591-31	HEN_16	Water	11/17/23 14:29	11/17/23 18:00
500-242591-35	HEN_46	Water	11/20/23 09:13	11/21/23 08:06
500-242591-37	HEN_52	Water	11/20/23 10:18	11/21/23 08:06
500-242591-38	HEN_07	Water	11/20/23 13:12	11/21/23 08:06

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_54

Date Collected: 11/17/23 09:02
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-22

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.577		0.262	0.267	1.00	0.306	pCi/L	11/22/23 09:46	12/21/23 19:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.1*		*30 - 110*	*11/22/23 09:46*	*12/21/23 19:28*	*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	0.734		0.403	0.409	1.00	0.569	pCi/L	11/22/23 09:53	12/21/23 11:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.1*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:57*	*1*
Y Carrier	*73.3*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:57*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.31		0.481	0.488	5.00	0.569	pCi/L		12/22/23 17:50	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_47
Date Collected: 11/17/23 09:33
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-23
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.486		0.249	0.253	1.00	0.311	pCi/L	11/22/23 09:46	12/21/23 19:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*30 - 110*	*11/22/23 09:46*	*12/21/23 19:28*	*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	0.655		0.395	0.399	1.00	0.574	pCi/L	11/22/23 09:53	12/21/23 11:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:57*	*1*
Y Carrier	*72.5*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:57*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.14		0.467	0.472	5.00	0.574	pCi/L		12/22/23 17:50	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_12

Date Collected: 11/17/23 10:19
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-24

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.315	U	0.227	0.228	1.00	0.325	pCi/L	11/22/23 09:46	12/21/23 19:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.1*		*30 - 110*	*11/22/23 09:46*	*12/21/23 19:27*	*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	**0.837**		0.442	0.448	1.00	0.636	pCi/L	11/22/23 09:53	12/21/23 11:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.1*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:57*	*1*
Y Carrier	*79.6*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:57*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.15**		0.497	0.503	5.00	0.636	pCi/L		12/22/23 17:50	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_13
Date Collected: 11/17/23 10:21
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-25
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.464**		0.246	0.249	1.00	0.312	pCi/L	11/22/23 09:46	12/21/23 19:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.7*		*30 - 110*	*11/22/23 09:46*	*12/21/23 19:27*	*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	-0.0554	U	0.326	0.326	1.00	0.608	pCi/L	11/22/23 09:53	12/21/23 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.7*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:58*	*1*
Y Carrier	*85.6*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:58*	*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	0.464	U	0.408	0.410	5.00	0.608	pCi/L		12/22/23 17:50	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_08&D

Date Collected: 11/17/23 12:31
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-26

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.632**		0.261	0.267	1.00	0.279	pCi/L	11/22/23 09:46	12/21/23 19:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.6*		*30 - 110*	*11/22/23 09:46*	*12/21/23 19:27*	*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	0.492	U	0.369	0.372	1.00	0.562	pCi/L	11/22/23 09:53	12/21/23 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.6*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:58*	*1*
Y Carrier	*73.3*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:58*	*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	**1.12**		0.452	0.458	5.00	0.562	pCi/L		12/22/23 17:50	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_08

Date Collected: 11/17/23 12:32
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-27

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.373		0.247	0.250	1.00	0.356	pCi/L	11/22/23 09:46	12/21/23 20:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.7*		*30 - 110*	*11/22/23 09:46*	*12/21/23 20:51*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.654		0.378	0.382	1.00	0.543	pCi/L	11/22/23 09:53	12/21/23 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.7*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:58*	*1*
Y Carrier	*77.4*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:58*	*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	1.03		0.452	0.457	5.00	0.543	pCi/L		12/22/23 17:50	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_08_FD

Date Collected: 11/17/23 12:37
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-28

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.238	U	0.190	0.191	1.00	0.276	pCi/L	11/22/23 09:46	12/21/23 20:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*30 - 110*	*11/22/23 09:46*	*12/21/23 20:51*	*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	**0.631**		0.415	0.420	1.00	0.621	pCi/L	11/22/23 09:53	12/21/23 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:58*	*1*
Y Carrier	*75.1*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:58*	*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	**0.869**		0.456	0.461	5.00	0.621	pCi/L		12/22/23 17:50	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_17

Date Collected: 11/17/23 14:17
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-30

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.254	U	0.196	0.198	1.00	0.282	pCi/L	11/22/23 09:46	12/21/23 20:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*11/22/23 09:46*	*12/21/23 20:51*	*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	0.505	U	0.357	0.360	1.00	0.537	pCi/L	11/22/23 09:53	12/21/23 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:59*	*1*
Y Carrier	*78.5*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:59*	*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	**0.759**		0.407	0.411	5.00	0.537	pCi/L		12/22/23 17:50	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_16

Date Collected: 11/17/23 14:29
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-31

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.450		0.238	0.241	1.00	0.288	pCi/L	11/22/23 09:46	12/21/23 20:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.2*		*30 - 110*	*11/22/23 09:46*	*12/21/23 20:51*	*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	0.560		0.368	0.372	1.00	0.543	pCi/L	11/22/23 09:53	12/21/23 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.2*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:59*	*1*
Y Carrier	*80.0*		*30 - 110*	*11/22/23 09:53*	*12/21/23 11:59*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.01		0.438	0.443	5.00	0.543	pCi/L		12/22/23 17:50	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_46

Date Collected: 11/20/23 09:13
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-35

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0559	U	0.0967	0.0968	1.00	0.235	pCi/L	11/27/23 10:49	12/22/23 14:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*11/27/23 10:49*	*12/22/23 14:27*	*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	0.279	U	0.330	0.331	1.00	0.544	pCi/L	11/27/23 10:59	12/19/23 16:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*11/27/23 10:59*	*12/19/23 16:28*	*1*
Y Carrier	*81.1*		*30 - 110*	*11/27/23 10:59*	*12/19/23 16:28*	*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	0.279	U	0.344	0.345	5.00	0.544	pCi/L		12/27/23 14:29	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_52

Date Collected: 11/20/23 10:18
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-37

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.151	U	0.142	0.143	1.00	0.218	pCi/L	11/27/23 10:49	12/22/23 14:27	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*11/27/23 10:49*	*12/22/23 14:27*	*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	0.404	U	0.355	0.357	1.00	0.558	pCi/L	11/27/23 10:59	12/19/23 16:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*11/27/23 10:59*	*12/19/23 16:28*	*1*
Y Carrier	*76.3*		*30 - 110*	*11/27/23 10:59*	*12/19/23 16:28*	*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	0.555	U	0.382	0.385	5.00	0.558	pCi/L		12/27/23 14:29	1

Client Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_07

Date Collected: 11/20/23 13:12
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-38

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.409**		0.222	0.225	1.00	0.292	pCi/L	11/27/23 10:49	12/22/23 14:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*30 - 110*	*11/27/23 10:49*	*12/22/23 14:28*	*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	0.568	U	0.431	0.434	1.00	0.667	pCi/L	11/27/23 10:59	12/19/23 16:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.1*		*30 - 110*	*11/27/23 10:59*	*12/19/23 16:28*	*1*
Y Carrier	*77.4*		*30 - 110*	*11/27/23 10:59*	*12/19/23 16:28*	*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	**0.978**		0.485	0.489	5.00	0.667	pCi/L		12/27/23 14:29	1

Definitions/Glossary

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Rad

Prep Batch: 637928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total/NA	Water	PrecSep-21	
500-242591-23	HEN_47	Total/NA	Water	PrecSep-21	
500-242591-24	HEN_12	Total/NA	Water	PrecSep-21	
500-242591-25	HEN_13	Total/NA	Water	PrecSep-21	
500-242591-26	HEN_08&D	Total/NA	Water	PrecSep-21	
500-242591-27	HEN_08	Total/NA	Water	PrecSep-21	
500-242591-28	HEN_08_FD	Total/NA	Water	PrecSep-21	
500-242591-30	HEN_17	Total/NA	Water	PrecSep-21	
500-242591-31	HEN_16	Total/NA	Water	PrecSep-21	
MB 160-637928/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-637928/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 637931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-22	HEN_54	Total/NA	Water	PrecSep_0	
500-242591-23	HEN_47	Total/NA	Water	PrecSep_0	
500-242591-24	HEN_12	Total/NA	Water	PrecSep_0	
500-242591-25	HEN_13	Total/NA	Water	PrecSep_0	
500-242591-26	HEN_08&D	Total/NA	Water	PrecSep_0	
500-242591-27	HEN_08	Total/NA	Water	PrecSep_0	
500-242591-28	HEN_08_FD	Total/NA	Water	PrecSep_0	
500-242591-30	HEN_17	Total/NA	Water	PrecSep_0	
500-242591-31	HEN_16	Total/NA	Water	PrecSep_0	
MB 160-637931/1-A	Method Blank	Total/NA	Water	PrecSep_0	

Prep Batch: 638356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-35	HEN_46	Total/NA	Water	PrecSep-21	
500-242591-37	HEN_52	Total/NA	Water	PrecSep-21	
500-242591-38	HEN_07	Total/NA	Water	PrecSep-21	
MB 160-638356/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-638356/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 638358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-242591-35	HEN_46	Total/NA	Water	PrecSep_0	
500-242591-37	HEN_52	Total/NA	Water	PrecSep_0	
500-242591-38	HEN_07	Total/NA	Water	PrecSep_0	
MB 160-638358/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-638358/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-637928/1-A
Matrix: Water
Analysis Batch: 641696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 637928

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03703	U	0.146	0.146	1.00	0.283	pCi/L	11/22/23 09:46	12/21/23 19:21	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*11/22/23 09:46*	*12/21/23 19:21*	*1*

Lab Sample ID: LCS 160-637928/2-A
Matrix: Water
Analysis Batch: 641696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 637928

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	9.928		1.26	1.00	0.249	pCi/L	88	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*98.2*		*30 - 110*

Lab Sample ID: MB 160-638356/1-A
Matrix: Water
Analysis Batch: 641880

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 638356

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.06469	U	0.132	0.133	1.00	0.237	pCi/L	11/27/23 10:49	12/22/23 14:25	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*102*		*30 - 110*	*11/27/23 10:49*	*12/22/23 14:25*	*1*

Lab Sample ID: LCS 160-638356/2-A
Matrix: Water
Analysis Batch: 641880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 638356

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	13.65		1.56	1.00	0.278	pCi/L	120	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.4*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-637931/1-A
Matrix: Water
Analysis Batch: 641696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 637931

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5670		0.346	0.350	1.00	0.505	pCi/L	11/22/23 09:53	12/21/23 11:55	1

QC Sample Results

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

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

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110	11/22/23 09:53	12/21/23 11:55	1
Y Carrier	80.7		30 - 110	11/22/23 09:53	12/21/23 11:55	1

Lab Sample ID: MB 160-638358/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 641298 — **Prep Batch: 638358**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4002	U	0.311	0.314	1.00	0.480	pCi/L	11/27/23 10:59	12/19/23 16:26	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	102		30 - 110	11/27/23 10:59	12/19/23 16:26	1
Y Carrier	85.6		30 - 110	11/27/23 10:59	12/19/23 16:26	1

Lab Sample ID: LCS 160-638358/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 641298 — **Prep Batch: 638358**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			7.63	8.197		1.16	1.00	0.478	pCi/L	107	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	96.4		30 - 110
Y Carrier	83.4		30 - 110

Lab Chronicle

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_54
Date Collected: 11/17/23 09:02
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			637928	KAC	EET SL	11/22/23 09:46
Total/NA	Analysis	903.0		1	641812	FLC	EET SL	12/21/23 19:28
Total/NA	Prep	PrecSep_0			637931	KAC	EET SL	11/22/23 09:53
Total/NA	Analysis	904.0		1	641696	FLC	EET SL	12/21/23 11:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	641923	EMH	EET SL	12/22/23 17:50

Client Sample ID: HEN_47
Date Collected: 11/17/23 09:33
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			637928	KAC	EET SL	11/22/23 09:46
Total/NA	Analysis	903.0		1	641812	FLC	EET SL	12/21/23 19:28
Total/NA	Prep	PrecSep_0			637931	KAC	EET SL	11/22/23 09:53
Total/NA	Analysis	904.0		1	641696	FLC	EET SL	12/21/23 11:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	641923	EMH	EET SL	12/22/23 17:50

Client Sample ID: HEN_12
Date Collected: 11/17/23 10:19
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			637928	KAC	EET SL	11/22/23 09:46
Total/NA	Analysis	903.0		1	641812	FLC	EET SL	12/21/23 19:27
Total/NA	Prep	PrecSep_0			637931	KAC	EET SL	11/22/23 09:53
Total/NA	Analysis	904.0		1	641696	FLC	EET SL	12/21/23 11:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	641923	EMH	EET SL	12/22/23 17:50

Client Sample ID: HEN_13
Date Collected: 11/17/23 10:21
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			637928	KAC	EET SL	11/22/23 09:46
Total/NA	Analysis	903.0		1	641812	FLC	EET SL	12/21/23 19:27
Total/NA	Prep	PrecSep_0			637931	KAC	EET SL	11/22/23 09:53
Total/NA	Analysis	904.0		1	641696	FLC	EET SL	12/21/23 11:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	641923	EMH	EET SL	12/22/23 17:50

Lab Chronicle

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_08&D
Date Collected: 11/17/23 12:31
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			637928	KAC	EET SL	11/22/23 09:46
Total/NA	Analysis	903.0		1	641812	FLC	EET SL	12/21/23 19:27
Total/NA	Prep	PrecSep_0			637931	KAC	EET SL	11/22/23 09:53
Total/NA	Analysis	904.0		1	641696	FLC	EET SL	12/21/23 11:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	641923	EMH	EET SL	12/22/23 17:50

Client Sample ID: HEN_08
Date Collected: 11/17/23 12:32
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			637928	KAC	EET SL	11/22/23 09:46
Total/NA	Analysis	903.0		1	641812	FLC	EET SL	12/21/23 20:51
Total/NA	Prep	PrecSep_0			637931	KAC	EET SL	11/22/23 09:53
Total/NA	Analysis	904.0		1	641696	FLC	EET SL	12/21/23 11:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	641923	EMH	EET SL	12/22/23 17:50

Client Sample ID: HEN_08_FD
Date Collected: 11/17/23 12:37
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			637928	KAC	EET SL	11/22/23 09:46
Total/NA	Analysis	903.0		1	641696	FLC	EET SL	12/21/23 20:51
Total/NA	Prep	PrecSep_0			637931	KAC	EET SL	11/22/23 09:53
Total/NA	Analysis	904.0		1	641696	FLC	EET SL	12/21/23 11:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	641923	EMH	EET SL	12/22/23 17:50

Client Sample ID: HEN_17
Date Collected: 11/17/23 14:17
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			637928	KAC	EET SL	11/22/23 09:46
Total/NA	Analysis	903.0		1	641696	FLC	EET SL	12/21/23 20:51
Total/NA	Prep	PrecSep_0			637931	KAC	EET SL	11/22/23 09:53
Total/NA	Analysis	904.0		1	641696	FLC	EET SL	12/21/23 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	641923	EMH	EET SL	12/22/23 17:50

Lab Chronicle

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Client Sample ID: HEN_16
Date Collected: 11/17/23 14:29
Date Received: 11/17/23 18:00

Lab Sample ID: 500-242591-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			637928	KAC	EET SL	11/22/23 09:46
Total/NA	Analysis	903.0		1	641696	FLC	EET SL	12/21/23 20:51
Total/NA	Prep	PrecSep_0			637931	KAC	EET SL	11/22/23 09:53
Total/NA	Analysis	904.0		1	641696	FLC	EET SL	12/21/23 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	641923	EMH	EET SL	12/22/23 17:50

Client Sample ID: HEN_46
Date Collected: 11/20/23 09:13
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			638356	KAC	EET SL	11/27/23 10:49
Total/NA	Analysis	903.0		1	641880	SCB	EET SL	12/22/23 14:27
Total/NA	Prep	PrecSep_0			638358	KAC	EET SL	11/27/23 10:59
Total/NA	Analysis	904.0		1	641298	FLC	EET SL	12/19/23 16:28
Total/NA	Analysis	Ra226_Ra228 Pos		1	642175	EMH	EET SL	12/27/23 14:29

Client Sample ID: HEN_52
Date Collected: 11/20/23 10:18
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			638356	KAC	EET SL	11/27/23 10:49
Total/NA	Analysis	903.0		1	641880	SCB	EET SL	12/22/23 14:27
Total/NA	Prep	PrecSep_0			638358	KAC	EET SL	11/27/23 10:59
Total/NA	Analysis	904.0		1	641298	FLC	EET SL	12/19/23 16:28
Total/NA	Analysis	Ra226_Ra228 Pos		1	642175	EMH	EET SL	12/27/23 14:29

Client Sample ID: HEN_07
Date Collected: 11/20/23 13:12
Date Received: 11/21/23 08:06

Lab Sample ID: 500-242591-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			638356	KAC	EET SL	11/27/23 10:49
Total/NA	Analysis	903.0		1	641880	SCB	EET SL	12/22/23 14:28
Total/NA	Prep	PrecSep_0			638358	KAC	EET SL	11/27/23 10:59
Total/NA	Analysis	904.0		1	641298	FLC	EET SL	12/19/23 16:28
Total/NA	Analysis	Ra226_Ra228 Pos		1	642175	EMH	EET SL	12/27/23 14:29

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: HEN-23Q4

Job ID: 500-242591-16
SDG: HEN_257_803_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

500-242591 COC

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-242591

Page 1 of 1

Section A Required Client Information:

Company:	Vistra Corp
Address	133 S 4th, Suite 206
	Springfield, IL 62701
Email To:	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911
Fax:	
Requested Due Date/TAT:	10 day

Section B Required Project Information

Report To:	Brian Voelker
Copy To:	Jason Stuckey
Purchase Order No.	
Project Name.	
Project Number:	50022357

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_54						9											X				X		X	X				
2					0902																								
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-17-23	1800		11/17/23	1800	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER

SIGNATURE of SAMPLER

DATE Signed (MM/DD/YY)

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

30 → 24, 48 → 46, 46 → 44, 52 → 50

KLT

HEN 23Q4

500-242891

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name	23Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)	Project No./ Lab I.D.
23 1	HEN_47	W	G	11-17-23	09'33		6	3		3								X				X		X	X				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	[signature] RAMBOLL	11/17/23	1800	[signature]	11/17/23	1800	

DROP OFF AT LAB

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	KRISTEN THEESFELD					
SIGNATURE of SAMPLER	[signature]	DATE Signed (MM/DD/YY) 11-17-23				

QC: TJD

500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 1

Section A Required Client Information.	Section B Required Project Information.	Section C Invoice Information.
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 133 S 4th, Suite 206	Copy To: Jason Stuckey	Company Name: Vistra Corp
Springfield, IL 62701		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 50022357	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_F	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_12			11/1/23	10:19		3	3		1			1					X		X		X		X	X				SHORT HOLDS-NO2
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	[signature] Ramboll	11-17-23	1800	[signature]	11/17/23	1800	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Trey Dunlap

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 11/17/23

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

QC: KLT

500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:	23Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_F	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_13	WG	G	11-17-23	10:21		12	4	3	4		1						X		X		X		X	X				SHORT HOLDS-NO2
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

11-17-23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-17-23	1600		11/17/23	1800	

DROP OFF AT LAB

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:	KRISTEN THEESFELD					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY) 11-17-23				

QC: TJP

500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information.		Section B Required Project Information.		Section C Invoice Information.	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To.	Jason Stuckey	Company Name	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name		Project Manager	
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

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

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_C	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	HEN_257_801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
								Requested Analysis Filtered (Y/N)																						
1	HEN_08&D			11/17/23	1231		12	3	3								X	X		X	X	X		X	X	X		X		SHORT HOLDS -NO2
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-17-23	1800		11/17/23	1800	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER.		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER	DATE Signed (MM/DD/YY) 11/16/23				

- BTEX in cooler w/ 08

QC KLT

PGN-052424
500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 1

Section A Required Client Information:		Section B Required Project Information.		Section C Invoice Information	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name	23Q4 GW SAMPLING	Project Manager	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_C	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	HEN_257_801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
								Requested Analysis Filtered (Y/N)																							
1	HEN_08	WT	G	11-17-23	12 32		13	5	3	4		1					X	X		X	X	X		X	X	X		X		SHORT HOLDS -NO2
2	HEN_08_FD	WT	G	11-17-23	12 37		13	5	3	4		1					X	X		X	X	X		X	X	X		X		SHORT HOLDS -NO3
3	TRIP BLANK 02	WT	G	11-17-23	—																									BTEX
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-17-23	1800		11/17/23	1800	

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:	KRISTEN ITTESFOLD					
SIGNATURE of SAMPLER		DATE Signed (MM/DD/YY): 11-17-23				

DROP OFF AT LAB

QC: TJD

500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information		Section B Required Project Information.		Section C Invoice Information	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	HEN_257-801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_17				1417													X				X		X	X			X		
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														
16																														

30

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	Randall	11-13-23	1800		11/17/23	1800	

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):				

KLT

CHAIN-OF-CUSTODY / Analytical Request Document

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

COC# HEN-026 500-242591

Page: 1 of 1

Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information.	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name:	23Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT	10 day	Project Number:	50022357	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	HEN_257_801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_16	WG	G	11-17-23	14:29		6	3		3								X				X		X	X			X		
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
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11																														
12																														
13																														
14																														
15																														
16																														

11-17-23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0		11-17-23	18 00		11/17/23	1800	

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:	KRISTEN THEESFELD					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 11-17-23				

DROP OFF AT LAB

QC TJD

HEN-028
500-24259-1

Page 1 of 1

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name	23Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West		Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_46	DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	N	G	11-20-23	09:13		10	3		3								X				X		X	X				
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														
13																														
14																														
15																														
16																														

11-20-23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-21-23	0800		11/21/23	0800	

DROP@ LAB

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:	KRISTEN THEESFELD				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): 11-20-23				

QC: TJD

HEN 536
500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 1

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	133 S 4th, Suite 206	Copy To:	Jason Stuckey	Company Name	Vistra Corp
	Springfield, IL 62701			Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name	23 Q4 GW SAMPLING	Project Manager:	NIKKI PAGANO
Requested Due Date/TAT:	10 day	Project Number:	50022357	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N)	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_G	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_52	W	G	11-20-23	10:18		6	3		3									X				X		X	X			
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL	11-21-23	0806		11/21/23	0806	

DROP @ LAB

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:	KRISTEN THEESFELD				
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY)	11-20-23				

QC: TJD

HEN-2303

500-242591

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey
Address: 133 S 4th, Suite 206	Copy To: Jason Stuckey	Company Name: Vistra Corp
Springfield, IL 62701		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name: 23 Q4 GW SAMPLING	Project Manager: NIKKI PAGANO
Requested Due Date/TAT: 10 day	Project Number: 50022357	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_257_802	HEN_257_803	HEN_257_804	HEN_811_801	HEN_845_802-805	HEN_845_803	HEN_845_804	HEN_000_B	HEN_000_RAD	HEN_WPCP_East	HEN_WPCP_West	HEN_257_801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_07	WG		11-20-23	1312		15	1	4	3	1					X	X				X	X		X	X	X		X	SHORT HOLDS-NO2
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

38

11-20-23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-23Q4 Rev 0	RAMBOLL 11-21-23		0806		11/21/23	0906	

DROP@LAB

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER: KRISTEN THEESFELD					
SIGNATURE of SAMPLER	DATE Signed (MM/DD/YY): 11-20-23	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

QC: TJD

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-181630.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-242591-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/30/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-23Q4	Project #: 50022357			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Y - Trizma; Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 AJ	904.0/PrecSep_0 AJ	Ra226_228GFPC_P/ AJ	903.0/PrecSep_21 AQ	904.0/PrecSep_0 AQ	Ra226_228GFPC_P/ AQ	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB					Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
HEN_03R (500-242591-14)	11/16/23	09:25 Central		Water			X	X	X	X	X	X	X	X	X					2	
HEN_03R_MS (500-242591-14MS)	11/16/23	09:25 Central	MS	Water			X	X	X	X	X	X	X	X	X					2	
HEN_03R_MSD (500-242591-14MSD)	11/16/23	09:25 Central	MSD	Water			X	X	X	X	X	X	X	X	X					2	
HEN_18#S (500-242591-15)	11/16/23	11:55 Central		Water			X	X	X	X	X	X	X	X	X					2	
HEN_18&D (500-242591-16)	11/16/23	11:55 Central		Water			X	X	X	X	X	X	X	X	X					2	

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

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: Alicia Scott	Date/Time: 11/17/23 1520	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: NOV 20 2023 0920	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-181722.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-242591-16
Address: 13715 Rider Trail North, ,	Due Date Requested: 11/30/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-23Q4	Project #: 50022357			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 AL	904.0/PrecSep_0 AL	Ra226_228GFPC_P/ AL	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_54 (500-242591-22)	11/17/23	09:02 Central		Water			X	X	X	2	
HEN_47 (500-242591-23)	11/17/23	09:33 Central		Water			X	X	X	2	
HEN_12 (500-242591-24)	11/17/23	10:14 Central		Water			X	X	X	2	
HEN_13 (500-242591-25)	11/17/23	10:21 Central		Water			X	X	X	2	
HEN_08&D (500-242591-26)	11/17/23	12:31 Central		Water			X	X	X	2	
HEN_08 (500-242591-27)	11/17/23	12:32 Central		Water			X	X	X	2	
HEN_08_FD (500-242591-28)	11/17/23	12:37 Central		Water			X	X	X	2	
HEN_17 (500-242591-30)	11/17/23	14:17 Central		Water			X	X	X	2	
HEN_16 (500-242591-31)	11/17/23	14:29 Central		Water			X	X	X	2	

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

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: FED EX			
Relinquished by: Stephanie Hemmerley	Date/Time: 11/20/23 1300	Company: EEIA	Received by: [signature]	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: NOV 21 2023 0845	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-181843.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-242591-2
Address: 13715 Rider Trail North,	Due Date Requested: 12/18/2023			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-23Q4	Project #: 50022357			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_45#S (500-242591-32)	11/20/23	09:15 Central		Water			X	X	X	2	
HEN_45#S_FD (500-242591-33)	11/20/23	09:20 Central		Water			X	X	X	2	
HEN_46 (500-242591-35)	11/20/23	09:13 Central		Water			X	X	X	2	
HEN_52 (500-242591-37)	11/20/23	10:18 Central		Water			X	X	X	2	
HEN_07 (500-242591-38)	11/20/23	13:12 Central		Water			X	X	X	2	
HEN_FB (500-242591-39)	11/20/23	13:20 Central		Water			X	X	X	2	

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

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Shari Scott	11/21/23 1510				
Relinquished by:	Date/Time:	Company	Received by: M Pinette	NOV 22 2023 0840	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-242591-16
SDG Number: HEN_257_803_RAD

Login Number: 242591
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	5.7,4.9,3.2,4.2,3.0,1.8,5.6,4.6,2.4,4.6,4.4,5.0,,2.3 ,4.9,5.0
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-242591-16
SDG Number: HEN_257_803_RAD

Login Number: 242591
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 11/16/23 12:55 PM

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

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-242591-16
SDG Number: HEN_257_803_RAD

Login Number: 242591
List Number: 3
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 11/17/23 01:43 PM

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

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-242591-16
SDG Number: HEN_257_803_RAD

Login Number: 242591
List Number: 5
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 11/20/23 02:30 PM

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

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-242591-16
SDG Number: HEN_257_803_RAD

Login Number: 242591
List Number: 7
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 11/21/23 12:16 PM

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

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-242591-16
SDG Number: HEN_257_803_RAD

Login Number: 242591
List Number: 9
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 11/22/23 01:50 PM

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

Tracer/Carrier Summary

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

Job ID: 500-242591-16
SDG: HEN_257_803_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Ba (30-110)
500-242591-22	HEN_54	96.1
500-242591-23	HEN_47	98.2
500-242591-24	HEN_12	95.1
500-242591-25	HEN_13	98.7
500-242591-26	HEN_08&D	95.6
500-242591-27	HEN_08	98.7
500-242591-28	HEN_08_FD	93.8
500-242591-30	HEN_17	94.9
500-242591-31	HEN_16	90.2
500-242591-35	HEN_46	91.8
500-242591-37	HEN_52	97.2
500-242591-38	HEN_07	94.1
LCS 160-637928/2-A	Lab Control Sample	98.2
LCS 160-638356/2-A	Lab Control Sample	96.4
MB 160-637928/1-A	Method Blank	101
MB 160-638356/1-A	Method Blank	102

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-242591-22	HEN_54	96.1	73.3
500-242591-23	HEN_47	98.2	72.5
500-242591-24	HEN_12	95.1	79.6
500-242591-25	HEN_13	98.7	85.6
500-242591-26	HEN_08&D	95.6	73.3
500-242591-27	HEN_08	98.7	77.4
500-242591-28	HEN_08_FD	93.8	75.1
500-242591-30	HEN_17	94.9	78.5
500-242591-31	HEN_16	90.2	80.0
500-242591-35	HEN_46	91.8	81.1
500-242591-37	HEN_52	97.2	76.3
500-242591-38	HEN_07	94.1	77.4
LCS 160-638358/2-A	Lab Control Sample	96.4	83.4
MB 160-637931/1-A	Method Blank	101	80.7
MB 160-638358/1-A	Method Blank	102	85.6

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 02/21/24 14:51:52

JOB DESCRIPTION

HEN-24Q1
HEN_257_803

JOB NUMBER

500-245277-10

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

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Authorization



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Job ID: 500-245277-10 — Eurofins Chicago

Job Narrative
500-245277-10

Receipt
The samples were received on 01/24/24 12:20. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 12 coolers at receipt time were 2.1º C, 2.3º C, 2.6º C, 2.7º C, 3.2º C, 3.3º C, 3.9º C, 4.1º C, 4.4º C, 4.4º C, 5.1º C and 5.2º C.

Metals
Method 6020B: The initial low level calibration verification (ICVL) result for batch 752646 was above the upper control limit. The affected analyte is: Sb. Sample results were below the lower limit, and have been reported as qualified data.

Method 6020B: The initial low level calibration verification (ICVL) result for batch 752984 was above the upper control limit. The affected analytes are: Se and Sb. Sample results are below the reporting limit, and have been reported as qualified data.

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 500-753401 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank with the exception of sample HEN_FB .

Method SM 2320B: Reanalysis of the following samples was performed outside of the analytical holding time due to instrument malfunction & Failed QC : HEN_54 (500-245277-23) and HEN_54_FD (500-245277-24). No data available from the original run, reanalysis data reported.

Method SM 2320B: The PHC following the samples did not run due to an instrument malfunction causing it to freeze up. The following samples were reanalyzed outside of holding time and confirmed the results. The original data has been qualified and has been reported.
HEN_46 (500-245277-19), HEN_47 (500-245277-20) and HEN_52 (500-245277-22)

Method SM 2320B: The method blank for analytical batch 500-753214 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.

Method 300.0: The method blank for analytical batch 500-752307 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: Spike compounds were inadvertently omitted during the extraction process for the matrix spike (MS) and / or matrix spike duplicate (MSD); therefore, matrix spike recoveries are unavailable for analytical batch 500-752534. The associated laboratory control sample (LCS) met acceptance criteria.

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

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_12 — Lab Sample ID: 500-245277-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0095		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00049	J B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.062		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.16		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	79		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0012	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Magnesium	31	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.015		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	51	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	80	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	69		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	250		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	490		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)	51.30				ft	1		Field Sampling	Total/NA
Field pH	7.41				SU	1		Field Sampling	Total/NA
Field Temperature	15.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	52.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.16				mg/L	1		Field Sampling	Total/NA
Specific Conductance	797				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.46				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_13 — Lab Sample ID: 500-245277-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.012		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00073	J B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.049		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.60		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	81		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0014	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Magnesium	32	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.014		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0019	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_13 (Continued) — Lab Sample ID: 500-245277-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	190	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	81	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	100		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	530		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.20		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.29				ft	1		Field Sampling	Total/NA
Field pH	7.47				SU	1		Field Sampling	Total/NA
Field Temperature	14.3				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	37.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.89				mg/L	1		Field Sampling	Total/NA
Specific Conductance	838				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.99				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16 — Lab Sample ID: 500-245277-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0048	J	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00041	J B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.074		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.24		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	81		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	28	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0070		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	61	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	89	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	76		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	250		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	500		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.23		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.33				ft	1		Field Sampling	Total/NA
Field pH	7.31				SU	1		Field Sampling	Total/NA
Field Temperature	16.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-4.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.48				mg/L	1		Field Sampling	Total/NA
Specific Conductance	814				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.64				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16_FD — Lab Sample ID: 500-245277-16

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

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_16_FD (Continued) — Lab Sample ID: 500-245277-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00043	J B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.073		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.21		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	79		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	27	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0070		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	59	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	89	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	75		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240		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	0.23		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.33				ft	1		Field Sampling	Total/NA
Field pH	7.31				SU	1		Field Sampling	Total/NA
Field Temperature	16.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-4.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.48				mg/L	1		Field Sampling	Total/NA
Specific Conductance	814				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.64				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_17 — Lab Sample ID: 500-245277-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0055		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00046	J B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.14		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.14		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	120		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	44	B	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	4.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	61	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	93	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	65		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	400		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	670		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.15		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	58.90				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_17 (Continued) — Lab Sample ID: 500-245277-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	6.99				SU	1		Field Sampling	Total/NA
Field Temperature	14.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	142.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.32				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1110				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.49				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_46 — Lab Sample ID: 500-245277-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0062		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00055	J B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.071		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.36		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	79		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0013	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Magnesium	30	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.018		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0013	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	55	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	81	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	72		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	250	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	520		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.22		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.61				ft	1		Field Sampling	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Temperature	14.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	118.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.27				mg/L	1		Field Sampling	Total/NA
Specific Conductance	848				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.70				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_47 — Lab Sample ID: 500-245277-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0073		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00047	J B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.097		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.49		0.050	0.013	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_47 (Continued) — Lab Sample ID: 500-245277-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	97		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.00052	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00044	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	30	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.026		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	5.1		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	62	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	94	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	76		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	290	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	600		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.28		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	57.82				ft	1		Field Sampling	Total/NA
Field pH	7.11				SU	1		Field Sampling	Total/NA
Field Temperature	16.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	127.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.55				mg/L	1		Field Sampling	Total/NA
Specific Conductance	959				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.48				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_52 — Lab Sample ID: 500-245277-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0064		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00048	J B	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.087		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.44		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	88		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	27	B	0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.012		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	5.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0020	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	68	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	91	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	78		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	290	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	580		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.25		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.95				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_52 (Continued) — Lab Sample ID: 500-245277-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field pH	7.15				SU	1		Field Sampling	Total/NA
Field Temperature	13.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	89.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.60				mg/L	1		Field Sampling	Total/NA
Specific Conductance	966				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.97				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_54 — Lab Sample ID: 500-245277-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.013		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.055		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.56		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	84		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	33		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.028		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	5.0		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0014	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	64	B	0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	86	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	86		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	280	H B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	580		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.26		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.21				ft	1		Field Sampling	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Temperature	14.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	39.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.65				mg/L	1		Field Sampling	Total/NA
Specific Conductance	873				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.28				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_54_FD — Lab Sample ID: 500-245277-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00027	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.051		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.58		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	87		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	28		0.20	0.049	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_54_FD (Continued) — Lab Sample ID: 500-245277-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.026		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0014	J ^1+	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	55		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	87	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	86		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	280	H B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	590		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.26		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.21				ft	1		Field Sampling	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Temperature	14.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	39.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.65				mg/L	1		Field Sampling	Total/NA
Specific Conductance	873				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.28				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08&D — Lab Sample ID: 500-245277-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00033	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.14		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.12		0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00093		0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	220		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0046		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00071		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	59		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	190		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	330		20	2.3	mg/L	20		300.0	Total/NA
Sulfate	170		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	510		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1500		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.090	J	0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.09				ft	1		Field Sampling	Total/NA
Field pH	6.69				SU	1		Field Sampling	Total/NA
Field Temperature	12.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	86.7				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_08&D (Continued) — Lab Sample ID: 500-245277-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.50				mg/L	1		Field Sampling	Total/NA
Specific Conductance	2389				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.40				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_XPW01_PORE — Lab Sample ID: 500-245277-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.042		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0059		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.067		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	2.2	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	17		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.10		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	40		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.013		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	160		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	50		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	170		5.0	1.0	mg/L	5		300.0	Total/NA
Carbonate Alkalinity as CaCO3	100		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	630		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.37		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	10.50				ft	1		Field Sampling	Total/NA
Field pH	11.48				SU	1		Field Sampling	Total/NA
Field Temperature	14.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-259.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.18				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1113				umhos/cm	1		Field Sampling	Total/NA
Turbidity	11.89				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_XPW02_PORE — Lab Sample ID: 500-245277-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0077		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0076		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.21		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	3.0	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	26		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0015	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Lead	0.00044	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_XPW02_PORE (Continued) — Lab Sample ID: 500-245277-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	0.23		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.46		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	48		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.15		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	470		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	19		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	370		20	4.1	mg/L	20		300.0	Total/NA
Carbonate Alkalinity as CaCO3	220		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1500		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	2.1		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	14.27				ft	1		Field Sampling	Total/NA
Field pH	12.25				SU	1		Field Sampling	Total/NA
Field Temperature	13.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-161.8				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.09				mg/L	1		Field Sampling	Total/NA
Specific Conductance	3777				umhos/cm	1		Field Sampling	Total/NA
Turbidity	21.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_XPW03_PORE — Lab Sample ID: 500-245277-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.056		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.0017		0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.28		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	2.8	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	88		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.069		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	24		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0074		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	130		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	49		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	240		5.0	1.0	mg/L	5		300.0	Total/NA
Carbonate Alkalinity as CaCO3	67		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	750		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.14		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	6.10				ft	1		Field Sampling	Total/NA
Field pH	11.93				SU	1		Field Sampling	Total/NA
Field Temperature	11.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-85.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.08				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1598				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_XPW03_PORE (Continued) — Lab Sample ID: 500-245277-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	1.00				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_07 — Lab Sample ID: 500-245277-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0052		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.10		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.12	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	120		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0075		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	39		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.7		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	37		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	56		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	59		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	350		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	650		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.12		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	68.7				ft	1		Field Sampling	Total/NA
Field pH	6.97				SU	1		Field Sampling	Total/NA
Field Temperature	10.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	143.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.30				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1026				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.90				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08 — Lab Sample ID: 500-245277-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.013		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.15	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00049	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	200		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0043		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00031	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	48		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	8.2		0.50	0.11	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_08 (Continued) — Lab Sample ID: 500-245277-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	130		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	250		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	120		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	510		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	0.083	J	0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.62				ft	1		Field Sampling	Total/NA
Field pH	6.78				SU	1		Field Sampling	Total/NA
Field Temperature	12.3				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	101.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.53				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1839				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.97				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_55 — Lab Sample ID: 500-245277-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	51.55				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_XSG01 — Lab Sample ID: 500-245277-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	10.1				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_YSG_ILRIVER — Lab Sample ID: 500-245277-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	22.07				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

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: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-245277-13	HEN_12	Water	01/24/24 11:55	01/25/24 11:51
500-245277-14	HEN_13	Water	01/24/24 12:41	01/25/24 11:51
500-245277-15	HEN_16	Water	01/24/24 10:55	01/25/24 11:51
500-245277-16	HEN_16_FD	Water	01/24/24 10:55	01/25/24 11:51
500-245277-17	HEN_17	Water	01/24/24 11:55	01/25/24 11:51
500-245277-19	HEN_46	Water	01/24/24 13:10	01/25/24 11:51
500-245277-20	HEN_47	Water	01/24/24 14:30	01/25/24 11:51
500-245277-22	HEN_52	Water	01/24/24 10:25	01/25/24 11:51
500-245277-23	HEN_54	Water	01/24/24 13:57	01/25/24 11:51
500-245277-24	HEN_54_FD	Water	01/24/24 13:57	01/25/24 11:51
500-245277-30	HEN_08&D	Water	01/25/24 13:05	01/26/24 11:45
500-245277-36	HEN_XPW01_PORE	Water	01/25/24 08:45	01/26/24 11:45
500-245277-37	HEN_XPW02_PORE	Water	01/25/24 09:30	01/26/24 11:45
500-245277-38	HEN_XPW03_PORE	Water	01/25/24 10:30	01/26/24 11:45
500-245277-39	HEN_07	Water	01/26/24 08:50	01/26/24 11:45
500-245277-40	HEN_08	Water	01/26/24 08:20	01/26/24 11:45
500-245277-48	HEN_55	Water	01/22/24 10:45	01/26/24 11:45
500-245277-49	HEN_XSG01	Water	01/22/24 13:55	01/26/24 11:45
500-245277-50	HEN_YSG_ILRIVER	Water	01/22/24 14:20	01/26/24 11:45

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_12
Date Collected: 01/24/24 11:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0095**		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 15:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 15:25	1
Arsenic	**0.00049**	**J B**	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 21:00	1
Barium	**0.062**		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 21:00	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:00	1
Boron	**0.16**		0.050	0.013	mg/L		01/30/24 09:37	02/02/24 15:25	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 21:00	1
Calcium	**79**		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 21:00	1
Chromium	**0.0012**	**J**	0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 21:00	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 21:00	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 21:00	1
Magnesium	**31**	**B**	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 21:00	1
Molybdenum	**0.015**		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 21:00	1
Potassium	**4.2**		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 21:00	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 15:25	1
Sodium	**51**	**B**	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 21:00	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 21:00	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**80**	**B**	5.0	0.58	mg/L			02/01/24 13:05	5
Sulfate (EPA 300.0)	**69**		5.0	1.0	mg/L			02/01/24 13:05	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**250**		5.0	3.7	mg/L			01/26/24 19:33	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 19:33	1
Total Dissolved Solids (SM 2540C)	**490**		10	4.3	mg/L			01/29/24 02:28	1
Fluoride (SM 4500 F C)	**0.21**		0.10	0.056	mg/L			02/09/24 11:07	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.30**				ft			01/24/24 11:55	1
Field pH	**7.41**				SU			01/24/24 11:55	1
Field Temperature	**15.4**				Degrees C			01/24/24 11:55	1
Oxidation Reduction Potential	**52.5**				millivolts			01/24/24 11:55	1
Oxygen, Dissolved	**3.16**				mg/L			01/24/24 11:55	1
Specific Conductance	**797**				umhos/cm			01/24/24 11:55	1
Turbidity	**1.46**				NTU			01/24/24 11:55	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_13

Date Collected: 01/24/24 12:41
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.012**		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 15:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 15:29	1
Arsenic	**0.00073**	**J B**	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 21:03	1
Barium	**0.049**		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 21:03	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:03	1
Boron	**0.60**		0.050	0.013	mg/L		01/30/24 09:37	02/02/24 15:29	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 21:03	1
Calcium	**81**		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 21:03	1
Chromium	**0.0014**	**J**	0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 21:03	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 21:03	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 21:03	1
Magnesium	**32**	**B**	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 21:03	1
Molybdenum	**0.014**		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 21:03	1
Potassium	**4.6**		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 21:03	1
Selenium	**0.0019**	**J**	0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 15:29	1
Sodium	**190**	**B**	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 21:03	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 21:03	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**81**	**B**	5.0	0.58	mg/L			02/01/24 13:21	5
Sulfate (EPA 300.0)	**100**		5.0	1.0	mg/L			02/01/24 13:21	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			01/26/24 19:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 19:42	1
Total Dissolved Solids (SM 2540C)	**530**		10	4.3	mg/L			01/29/24 02:30	1
Fluoride (SM 4500 F C)	**0.20**		0.10	0.056	mg/L			02/09/24 11:11	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.29**				ft			01/24/24 12:41	1
Field pH	**7.47**				SU			01/24/24 12:41	1
Field Temperature	**14.3**				Degrees C			01/24/24 12:41	1
Oxidation Reduction Potential	**37.2**				millivolts			01/24/24 12:41	1
Oxygen, Dissolved	**0.89**				mg/L			01/24/24 12:41	1
Specific Conductance	**838**				umhos/cm			01/24/24 12:41	1
Turbidity	**0.99**				NTU			01/24/24 12:41	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_16

Date Collected: 01/24/24 10:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0048**	**J**	0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 16:08	1
Arsenic	**0.00041**	**J B**	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 21:07	1
Barium	**0.074**		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 21:07	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:07	1
Boron	**0.24**		0.050	0.013	mg/L		01/30/24 09:37	02/06/24 15:38	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 21:07	1
Calcium	**81**		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 21:07	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 21:07	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 21:07	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 21:07	1
Magnesium	**28**	**B**	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 21:07	1
Molybdenum	**0.0070**		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 21:07	1
Potassium	**4.6**		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 21:07	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 16:08	1
Sodium	**61**	**B**	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 21:07	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 21:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 09:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**89**	**B**	5.0	0.58	mg/L			02/01/24 13:37	5
Sulfate (EPA 300.0)	**76**		5.0	1.0	mg/L			02/01/24 13:37	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**250**		5.0	3.7	mg/L			01/26/24 19:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 19:55	1
Total Dissolved Solids (SM 2540C)	**500**		10	4.3	mg/L			01/29/24 02:33	1
Fluoride (SM 4500 F C)	**0.23**		0.10	0.056	mg/L			02/09/24 11:16	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.33**				ft			01/24/24 10:55	1
Field pH	**7.31**				SU			01/24/24 10:55	1
Field Temperature	**16.0**				Degrees C			01/24/24 10:55	1
Oxidation Reduction Potential	**-4.2**				millivolts			01/24/24 10:55	1
Oxygen, Dissolved	**0.48**				mg/L			01/24/24 10:55	1
Specific Conductance	**814**				umhos/cm			01/24/24 10:55	1
Turbidity	**3.64**				NTU			01/24/24 10:55	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_16_FD

Date Collected: 01/24/24 10:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0050**		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 15:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 16:11	1
Arsenic	**0.00043**	**J B**	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 21:10	1
Barium	**0.073**		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 21:10	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:10	1
Boron	**0.21**		0.050	0.013	mg/L		01/30/24 09:37	02/06/24 15:41	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 21:10	1
Calcium	**79**		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 21:10	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 21:10	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 21:10	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 21:10	1
Magnesium	**27**	**B**	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 21:10	1
Molybdenum	**0.0070**		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 21:10	1
Potassium	**4.4**		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 21:10	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 16:11	1
Sodium	**59**	**B**	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 21:10	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 21:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**89**	**B**	5.0	0.58	mg/L			02/01/24 13:52	5
Sulfate (EPA 300.0)	**75**		5.0	1.0	mg/L			02/01/24 13:52	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			01/26/24 20:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 20:04	1
Total Dissolved Solids (SM 2540C)	**460**		10	4.3	mg/L			01/29/24 02:36	1
Fluoride (SM 4500 F C)	**0.23**		0.10	0.056	mg/L			02/09/24 11:20	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.33**				ft			01/24/24 10:55	1
Field pH	**7.31**				SU			01/24/24 10:55	1
Field Temperature	**16.0**				Degrees C			01/24/24 10:55	1
Oxidation Reduction Potential	**-4.2**				millivolts			01/24/24 10:55	1
Oxygen, Dissolved	**0.48**				mg/L			01/24/24 10:55	1
Specific Conductance	**814**				umhos/cm			01/24/24 10:55	1
Turbidity	**3.64**				NTU			01/24/24 10:55	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_17

Date Collected: 01/24/24 11:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-17

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0055**		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 16:15	1
Arsenic	**0.00046**	**J B**	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 21:14	1
Barium	**0.14**		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 21:14	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:14	1
Boron	**0.14**		0.050	0.013	mg/L		01/30/24 09:37	02/06/24 15:45	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 21:14	1
Calcium	**120**		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 21:14	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 21:14	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 21:14	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 21:14	1
Magnesium	**44**	**B**	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 21:14	1
Molybdenum	**0.0029**	**J**	0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 21:14	1
Potassium	**4.8**		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 21:14	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 16:15	1
Sodium	**61**	**B**	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 21:14	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 21:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**93**	**B**	5.0	0.58	mg/L			02/01/24 14:39	5
Sulfate (EPA 300.0)	**65**		5.0	1.0	mg/L			02/01/24 14:39	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**400**		5.0	3.7	mg/L			01/26/24 20:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			01/26/24 20:13	1
Total Dissolved Solids (SM 2540C)	**670**		10	4.3	mg/L			01/29/24 02:38	1
Fluoride (SM 4500 F C)	**0.15**		0.10	0.056	mg/L			02/09/24 11:25	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**58.90**				ft			01/24/24 11:55	1
Field pH	**6.99**				SU			01/24/24 11:55	1
Field Temperature	**14.1**				Degrees C			01/24/24 11:55	1
Oxidation Reduction Potential	**142.7**				millivolts			01/24/24 11:55	1
Oxygen, Dissolved	**3.32**				mg/L			01/24/24 11:55	1
Specific Conductance	**1110**				umhos/cm			01/24/24 11:55	1
Turbidity	**2.49**				NTU			01/24/24 11:55	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_46
Date Collected: 01/24/24 13:10
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0062**		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 16:25	1
Arsenic	**0.00055**	**J B**	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 21:27	1
Barium	**0.071**		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 21:27	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:27	1
Boron	**0.36**		0.050	0.013	mg/L		01/30/24 09:37	01/31/24 21:27	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 21:27	1
Calcium	**79**		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 21:27	1
Chromium	**0.0013**	**J**	0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 21:27	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 21:27	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 21:27	1
Magnesium	**30**	**B**	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 21:27	1
Molybdenum	**0.018**		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 21:27	1
Potassium	**4.3**		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 21:27	1
Selenium	**0.0013**	**J**	0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 16:25	1
Sodium	**55**	**B**	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 21:27	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 21:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**81**	**B**	5.0	0.58	mg/L			02/01/24 15:10	5
Sulfate (EPA 300.0)	**72**		5.0	1.0	mg/L			02/01/24 15:10	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**250**	**B**	5.0	3.7	mg/L			02/02/24 10:37	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/02/24 10:37	1
Total Dissolved Solids (SM 2540C)	**520**		10	4.3	mg/L			01/29/24 02:43	1
Fluoride (SM 4500 F C)	**0.22**		0.10	0.056	mg/L			02/09/24 11:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.61**				ft			01/24/24 13:10	1
Field pH	**7.35**				SU			01/24/24 13:10	1
Field Temperature	**14.6**				Degrees C			01/24/24 13:10	1
Oxidation Reduction Potential	**118.5**				millivolts			01/24/24 13:10	1
Oxygen, Dissolved	**2.27**				mg/L			01/24/24 13:10	1
Specific Conductance	**848**				umhos/cm			01/24/24 13:10	1
Turbidity	**0.70**				NTU			01/24/24 13:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_47
Date Collected: 01/24/24 14:30
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0073**		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 16:29	1
Arsenic	**0.00047**	**J B**	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 21:31	1
Barium	**0.097**		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 21:31	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:31	1
Boron	**0.49**		0.050	0.013	mg/L		01/30/24 09:37	01/31/24 21:31	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 21:31	1
Calcium	**97**		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 21:31	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 21:31	1
Cobalt	**0.00052**	**J**	0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 21:31	1
Lead	**0.00044**	**J**	0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 21:31	1
Magnesium	**30**	**B**	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 21:31	1
Molybdenum	**0.026**		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 21:31	1
Potassium	**5.1**		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 21:31	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 16:29	1
Sodium	**62**	**B**	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 21:31	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 21:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**94**	**B**	5.0	0.58	mg/L			02/01/24 15:26	5
Sulfate (EPA 300.0)	**76**		5.0	1.0	mg/L			02/01/24 15:26	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**290**	**B**	5.0	3.7	mg/L			02/02/24 10:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/02/24 10:47	1
Total Dissolved Solids (SM 2540C)	**600**		10	4.3	mg/L			01/29/24 02:46	1
Fluoride (SM 4500 F C)	**0.28**		0.10	0.056	mg/L			02/09/24 11:49	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**57.82**				ft			01/24/24 14:30	1
Field pH	**7.11**				SU			01/24/24 14:30	1
Field Temperature	**16.7**				Degrees C			01/24/24 14:30	1
Oxidation Reduction Potential	**127.9**				millivolts			01/24/24 14:30	1
Oxygen, Dissolved	**2.55**				mg/L			01/24/24 14:30	1
Specific Conductance	**959**				umhos/cm			01/24/24 14:30	1
Turbidity	**0.48**				NTU			01/24/24 14:30	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_52
Date Collected: 01/24/24 10:25
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0064**		0.0050	0.0020	mg/L		01/26/24 08:57	01/29/24 15:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 16:42	1
Arsenic	**0.00048**	**J B**	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 21:38	1
Barium	**0.087**		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 21:38	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:38	1
Boron	**0.44**		0.050	0.013	mg/L		01/30/24 09:37	01/31/24 21:38	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 21:38	1
Calcium	**88**		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 21:38	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 21:38	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 21:38	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 21:38	1
Magnesium	**27**	**B**	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 21:38	1
Molybdenum	**0.012**		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 21:38	1
Potassium	**5.2**		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 21:38	1
Selenium	**0.0020**	**J**	0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 16:42	1
Sodium	**68**	**B**	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 21:38	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 21:38	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 08:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**91**	**B**	5.0	0.58	mg/L			02/01/24 15:57	5
Sulfate (EPA 300.0)	**78**		5.0	1.0	mg/L			02/01/24 15:57	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**290**	**B**	5.0	3.7	mg/L			02/02/24 11:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/02/24 11:05	1
Total Dissolved Solids (SM 2540C)	**580**		10	4.3	mg/L			01/29/24 03:06	1
Fluoride (SM 4500 F C)	**0.25**		0.10	0.056	mg/L			02/09/24 11:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.95**				ft			01/24/24 10:25	1
Field pH	**7.15**				SU			01/24/24 10:25	1
Field Temperature	**13.9**				Degrees C			01/24/24 10:25	1
Oxidation Reduction Potential	**89.8**				millivolts			01/24/24 10:25	1
Oxygen, Dissolved	**3.60**				mg/L			01/24/24 10:25	1
Specific Conductance	**966**				umhos/cm			01/24/24 10:25	1
Turbidity	**1.97**				NTU			01/24/24 10:25	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_54
Date Collected: 01/24/24 13:57
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-23
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.013**		0.0050	0.0020	mg/L		01/26/24 08:57	01/29/24 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 16:46	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		01/30/24 09:37	02/02/24 16:46	1
Barium	**0.055**		0.0025	0.00073	mg/L		01/30/24 09:37	02/02/24 16:46	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 21:41	1
Boron	**0.56**		0.050	0.013	mg/L		01/30/24 09:37	01/31/24 21:41	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	02/02/24 16:46	1
Calcium	**84**		0.20	0.044	mg/L		01/30/24 09:37	02/02/24 16:46	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	02/02/24 16:46	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	02/02/24 16:46	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	02/02/24 16:46	1
Magnesium	**33**		0.20	0.049	mg/L		01/30/24 09:37	02/02/24 16:46	1
Molybdenum	**0.028**		0.0050	0.0025	mg/L		01/30/24 09:37	02/02/24 16:46	1
Potassium	**5.0**		0.50	0.11	mg/L		01/30/24 09:37	02/02/24 16:46	1
Selenium	**0.0014**	**J**	0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 16:46	1
Sodium	**64**	**B**	0.20	0.077	mg/L		01/30/24 09:37	02/02/24 16:46	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	02/02/24 16:46	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 08:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**86**	**B**	5.0	0.58	mg/L			02/01/24 16:13	5
Sulfate (EPA 300.0)	**86**		5.0	1.0	mg/L			02/01/24 16:13	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**280**	**H B**	5.0	3.7	mg/L			02/08/24 17:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0	H	5.0	3.7	mg/L			02/08/24 17:19	1
Total Dissolved Solids (SM 2540C)	**580**		10	4.3	mg/L			01/29/24 03:12	1
Fluoride (SM 4500 F C)	**0.26**		0.10	0.056	mg/L			02/09/24 12:03	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.21**				ft			01/24/24 13:57	1
Field pH	**7.35**				SU			01/24/24 13:57	1
Field Temperature	**14.4**				Degrees C			01/24/24 13:57	1
Oxidation Reduction Potential	**39.8**				millivolts			01/24/24 13:57	1
Oxygen, Dissolved	**1.65**				mg/L			01/24/24 13:57	1
Specific Conductance	**873**				umhos/cm			01/24/24 13:57	1
Turbidity	**4.28**				NTU			01/24/24 13:57	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_54_FD
Date Collected: 01/24/24 13:57
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-24
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.014**		0.0050	0.0020	mg/L		01/26/24 08:57	01/29/24 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 17:00	02/06/24 17:41	1
Arsenic	**0.00027**	**J**	0.0010	0.00023	mg/L		01/30/24 17:00	02/01/24 16:16	1
Barium	**0.051**		0.0025	0.00073	mg/L		01/30/24 17:00	02/01/24 16:16	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 17:00	02/06/24 17:41	1
Boron	**0.58**		0.050	0.013	mg/L		01/30/24 17:00	02/06/24 17:41	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 17:00	02/01/24 16:16	1
Calcium	**87**		0.20	0.044	mg/L		01/30/24 17:00	02/06/24 17:41	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 17:00	02/01/24 16:16	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 17:00	02/01/24 16:16	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 17:00	02/01/24 16:16	1
Magnesium	**28**		0.20	0.049	mg/L		01/30/24 17:00	02/01/24 16:16	1
Molybdenum	**0.026**		0.0050	0.0025	mg/L		01/30/24 17:00	02/01/24 16:16	1
Potassium	**4.3**		0.50	0.11	mg/L		01/30/24 17:00	02/01/24 16:16	1
Selenium	**0.0014**	**J ^1+**	0.0025	0.00098	mg/L		01/30/24 17:00	02/06/24 17:41	1
Sodium	**55**		0.20	0.077	mg/L		01/30/24 17:00	02/01/24 16:16	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 17:00	02/06/24 17:41	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 08:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**87**	**B**	5.0	0.58	mg/L			02/01/24 16:28	5
Sulfate (EPA 300.0)	**86**		5.0	1.0	mg/L			02/01/24 16:28	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**280**	**H B**	5.0	3.7	mg/L			02/08/24 17:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0	H	5.0	3.7	mg/L			02/08/24 17:29	1
Total Dissolved Solids (SM 2540C)	**590**		10	4.3	mg/L			01/29/24 03:14	1
Fluoride (SM 4500 F C)	**0.26**		0.10	0.056	mg/L			02/09/24 12:07	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.21**				ft			01/24/24 13:57	1
Field pH	**7.35**				SU			01/24/24 13:57	1
Field Temperature	**14.4**				Degrees C			01/24/24 13:57	1
Oxidation Reduction Potential	**39.8**				millivolts			01/24/24 13:57	1
Oxygen, Dissolved	**1.65**				mg/L			01/24/24 13:57	1
Specific Conductance	**873**				umhos/cm			01/24/24 13:57	1
Turbidity	**4.28**				NTU			01/24/24 13:57	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_08&D
Date Collected: 01/25/24 13:05
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-30
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.014**		0.0050	0.0020	mg/L		02/01/24 08:29	02/05/24 12:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 17:00	02/06/24 18:05	1
Arsenic	**0.00033**	**J**	0.0010	0.00023	mg/L		01/30/24 17:00	02/01/24 16:50	1
Barium	**0.14**		0.0025	0.00073	mg/L		01/30/24 17:00	02/01/24 16:50	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 17:00	02/06/24 18:05	1
Boron	**0.12**		0.050	0.013	mg/L		01/30/24 17:00	02/01/24 16:50	1
Cadmium	**0.00093**		0.00050	0.00017	mg/L		01/30/24 17:00	02/01/24 16:50	1
Calcium	**220**		0.20	0.044	mg/L		01/30/24 17:00	02/06/24 18:05	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 17:00	02/01/24 16:50	1
Cobalt	**0.0046**		0.0010	0.00040	mg/L		01/30/24 17:00	02/01/24 16:50	1
Lead	**0.00071**		0.00050	0.00019	mg/L		01/30/24 17:00	02/01/24 16:50	1
Magnesium	**59**		0.20	0.049	mg/L		01/30/24 17:00	02/01/24 16:50	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/30/24 17:00	02/01/24 16:50	1
Potassium	**4.3**		0.50	0.11	mg/L		01/30/24 17:00	02/01/24 16:50	1
Selenium	<0.0025	^1+	0.0025	0.00098	mg/L		01/30/24 17:00	02/06/24 18:05	1
Sodium	**190**		0.20	0.077	mg/L		01/30/24 17:00	02/01/24 16:50	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 17:00	02/06/24 18:05	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**330**		20	2.3	mg/L			02/06/24 13:50	20
Sulfate (EPA 300.0)	**170**		5.0	1.0	mg/L			02/03/24 15:07	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**510**		5.0	3.7	mg/L			02/08/24 11:47	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/08/24 11:47	1
Total Dissolved Solids (SM 2540C)	**1500**		10	4.3	mg/L			01/29/24 03:30	1
Fluoride (SM 4500 F C)	**0.090**	**J**	0.10	0.056	mg/L			02/09/24 12:46	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.09**				ft			01/25/24 13:05	1
Field pH	**6.69**				SU			01/25/24 13:05	1
Field Temperature	**12.5**				Degrees C			01/25/24 13:05	1
Oxidation Reduction Potential	**86.7**				millivolts			01/25/24 13:05	1
Oxygen, Dissolved	**0.50**				mg/L			01/25/24 13:05	1
Specific Conductance	**2389**				umhos/cm			01/25/24 13:05	1
Turbidity	**4.40**				NTU			01/25/24 13:05	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_XPW01_PORE

Date Collected: 01/25/24 08:45
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-36

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.042**		0.0050	0.0020	mg/L		02/01/24 08:29	02/05/24 12:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/31/24 08:07	02/06/24 19:10	1
Arsenic	**0.0059**		0.0010	0.00023	mg/L		01/31/24 08:07	02/01/24 17:59	1
Barium	**0.067**		0.0025	0.00073	mg/L		01/31/24 08:07	02/01/24 17:59	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/31/24 08:07	02/06/24 19:10	1
Boron	**2.2**	**B**	0.050	0.013	mg/L		01/31/24 08:07	02/06/24 19:10	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/31/24 08:07	02/01/24 17:59	1
Calcium	**17**		0.20	0.044	mg/L		01/31/24 08:07	02/06/24 19:10	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/31/24 08:07	02/01/24 17:59	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/31/24 08:07	02/01/24 17:59	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/31/24 08:07	02/01/24 17:59	1
Magnesium	<0.20		0.20	0.049	mg/L		01/31/24 08:07	02/01/24 17:59	1
Molybdenum	**0.10**		0.0050	0.0025	mg/L		01/31/24 08:07	02/01/24 17:59	1
Potassium	**40**		0.50	0.11	mg/L		01/31/24 08:07	02/01/24 17:59	1
Selenium	**0.013**		0.0025	0.00098	mg/L		01/31/24 08:07	02/08/24 11:53	1
Sodium	**160**		0.20	0.077	mg/L		01/31/24 08:07	02/06/24 19:10	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/31/24 08:07	02/06/24 19:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 09:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**50**		5.0	0.58	mg/L			02/03/24 16:08	5
Sulfate (EPA 300.0)	**170**		5.0	1.0	mg/L			02/03/24 16:08	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/08/24 12:36	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	**100**		5.0	3.7	mg/L			02/08/24 12:36	1
Total Dissolved Solids (SM 2540C)	**630**		10	4.3	mg/L			01/29/24 03:43	1
Fluoride (SM 4500 F C)	**0.37**		0.10	0.056	mg/L			02/09/24 13:20	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**10.50**				ft			01/25/24 08:45	1
Field pH	**11.48**				SU			01/25/24 08:45	1
Field Temperature	**14.4**				Degrees C			01/25/24 08:45	1
Oxidation Reduction Potential	**-259.9**				millivolts			01/25/24 08:45	1
Oxygen, Dissolved	**-0.18**				mg/L			01/25/24 08:45	1
Specific Conductance	**1113**				umhos/cm			01/25/24 08:45	1
Turbidity	**11.89**				NTU			01/25/24 08:45	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_XPW02_PORE

Date Collected: 01/25/24 09:30
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-37

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0077**		0.0050	0.0020	mg/L		02/01/24 08:29	02/05/24 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/31/24 08:07	02/06/24 19:14	1
Arsenic	**0.0076**		0.0010	0.00023	mg/L		01/31/24 08:07	02/06/24 19:14	1
Barium	**0.21**		0.0025	0.00073	mg/L		01/31/24 08:07	02/01/24 18:09	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/31/24 08:07	02/06/24 19:14	1
Boron	**3.0**	**B**	0.050	0.013	mg/L		01/31/24 08:07	02/06/24 19:14	1
Cadmium	<0.00050	^+	0.00050	0.00017	mg/L		01/31/24 08:07	02/01/24 18:09	1
Calcium	**26**		0.20	0.044	mg/L		01/31/24 08:07	02/06/24 19:14	1
Chromium	**0.0015**	**J**	0.0050	0.0011	mg/L		01/31/24 08:07	02/06/24 19:14	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/31/24 08:07	02/01/24 18:09	1
Lead	**0.00044**	**J**	0.00050	0.00019	mg/L		01/31/24 08:07	02/01/24 18:09	1
Magnesium	**0.23**		0.20	0.049	mg/L		01/31/24 08:07	02/01/24 18:09	1
Molybdenum	**0.46**		0.0050	0.0025	mg/L		01/31/24 08:07	02/01/24 18:09	1
Potassium	**48**		0.50	0.11	mg/L		01/31/24 08:07	02/01/24 18:09	1
Selenium	**0.15**		0.0025	0.00098	mg/L		01/31/24 08:07	02/08/24 11:57	1
Sodium	**470**		0.20	0.077	mg/L		01/31/24 08:07	02/06/24 19:14	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/31/24 08:07	02/06/24 19:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**19**		5.0	0.58	mg/L			02/03/24 16:23	5
Sulfate (EPA 300.0)	**370**		20	4.1	mg/L			02/06/24 15:36	20
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/08/24 12:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	**220**		5.0	3.7	mg/L			02/08/24 12:45	1
Total Dissolved Solids (SM 2540C)	**1500**		10	4.3	mg/L			01/29/24 03:45	1
Fluoride (SM 4500 F C)	**2.1**		0.10	0.056	mg/L			02/09/24 13:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**14.27**				ft			01/25/24 09:30	1
Field pH	**12.25**				SU			01/25/24 09:30	1
Field Temperature	**13.9**				Degrees C			01/25/24 09:30	1
Oxidation Reduction Potential	**-161.8**				millivolts			01/25/24 09:30	1
Oxygen, Dissolved	**0.09**				mg/L			01/25/24 09:30	1
Specific Conductance	**3777**				umhos/cm			01/25/24 09:30	1
Turbidity	**21.01**				NTU			01/25/24 09:30	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_XPW03_PORE

Date Collected: 01/25/24 10:30
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-38

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.056**		0.0050	0.0020	mg/L		02/01/24 08:29	02/05/24 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/31/24 08:07	02/06/24 19:17	1
Arsenic	**0.0017**		0.0010	0.00023	mg/L		01/31/24 08:07	02/06/24 19:17	1
Barium	**0.28**		0.0025	0.00073	mg/L		01/31/24 08:07	02/01/24 18:13	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/31/24 08:07	02/06/24 19:17	1
Boron	**2.8**	**B**	0.050	0.013	mg/L		01/31/24 08:07	02/06/24 19:17	1
Cadmium	<0.00050	^+	0.00050	0.00017	mg/L		01/31/24 08:07	02/01/24 18:13	1
Calcium	**88**		0.20	0.044	mg/L		01/31/24 08:07	02/06/24 19:17	1
Chromium	<0.0050	^+	0.0050	0.0011	mg/L		01/31/24 08:07	02/01/24 18:13	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/31/24 08:07	02/01/24 18:13	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/31/24 08:07	02/01/24 18:13	1
Magnesium	<0.20		0.20	0.049	mg/L		01/31/24 08:07	02/01/24 18:13	1
Molybdenum	**0.069**		0.0050	0.0025	mg/L		01/31/24 08:07	02/01/24 18:13	1
Potassium	**24**		0.50	0.11	mg/L		01/31/24 08:07	02/01/24 18:13	1
Selenium	**0.0074**		0.0025	0.00098	mg/L		01/31/24 08:07	02/08/24 12:01	1
Sodium	**130**		0.20	0.077	mg/L		01/31/24 08:07	02/06/24 19:17	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/31/24 08:07	02/06/24 19:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**49**		5.0	0.58	mg/L			02/03/24 16:38	5
Sulfate (EPA 300.0)	**240**		5.0	1.0	mg/L			02/03/24 16:38	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/08/24 12:56	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	**67**		5.0	3.7	mg/L			02/08/24 12:56	1
Total Dissolved Solids (SM 2540C)	**750**		10	4.3	mg/L			01/29/24 03:48	1
Fluoride (SM 4500 F C)	**0.14**		0.10	0.056	mg/L			02/09/24 13:42	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**6.10**				ft			01/25/24 10:30	1
Field pH	**11.93**				SU			01/25/24 10:30	1
Field Temperature	**11.4**				Degrees C			01/25/24 10:30	1
Oxidation Reduction Potential	**-85.7**				millivolts			01/25/24 10:30	1
Oxygen, Dissolved	**0.08**				mg/L			01/25/24 10:30	1
Specific Conductance	**1598**				umhos/cm			01/25/24 10:30	1
Turbidity	**1.00**				NTU			01/25/24 10:30	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_07

Date Collected: 01/26/24 08:50
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-39

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0052**		0.0050	0.0020	mg/L		02/01/24 08:29	02/05/24 12:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/31/24 08:07	02/06/24 19:21	1
Arsenic	<0.0010	^+	0.0010	0.00023	mg/L		01/31/24 08:07	02/01/24 18:16	1
Barium	**0.10**		0.0025	0.00073	mg/L		01/31/24 08:07	02/01/24 18:16	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/31/24 08:07	02/06/24 19:21	1
Boron	**0.12**	**B**	0.050	0.013	mg/L		01/31/24 08:07	02/06/24 19:21	1
Cadmium	<0.00050	^+	0.00050	0.00017	mg/L		01/31/24 08:07	02/01/24 18:16	1
Calcium	**120**		0.20	0.044	mg/L		01/31/24 08:07	02/06/24 19:21	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/31/24 08:07	02/06/24 19:21	1
Cobalt	**0.0075**		0.0010	0.00040	mg/L		01/31/24 08:07	02/01/24 18:16	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/31/24 08:07	02/01/24 18:16	1
Magnesium	**39**		0.20	0.049	mg/L		01/31/24 08:07	02/01/24 18:16	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/31/24 08:07	02/01/24 18:16	1
Potassium	**2.7**		0.50	0.11	mg/L		01/31/24 08:07	02/01/24 18:16	1
Selenium	<0.0025	^1+	0.0025	0.00098	mg/L		01/31/24 08:07	02/06/24 19:21	1
Sodium	**37**		0.20	0.077	mg/L		01/31/24 08:07	02/06/24 19:21	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/31/24 08:07	02/06/24 19:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**56**		5.0	0.58	mg/L			02/03/24 17:24	5
Sulfate (EPA 300.0)	**59**		5.0	1.0	mg/L			02/03/24 17:24	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**350**		5.0	3.7	mg/L			02/08/24 13:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/08/24 13:07	1
Total Dissolved Solids (SM 2540C)	**650**		10	4.3	mg/L			01/29/24 03:50	1
Fluoride (SM 4500 F C)	**0.12**		0.10	0.056	mg/L			02/09/24 13:48	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**68.7**				ft			01/26/24 08:50	1
Field pH	**6.97**				SU			01/26/24 08:50	1
Field Temperature	**10.0**				Degrees C			01/26/24 08:50	1
Oxidation Reduction Potential	**143.4**				millivolts			01/26/24 08:50	1
Oxygen, Dissolved	**4.30**				mg/L			01/26/24 08:50	1
Specific Conductance	**1026**				umhos/cm			01/26/24 08:50	1
Turbidity	**5.90**				NTU			01/26/24 08:50	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_08

Date Collected: 01/26/24 08:20
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-40

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.013**		0.0050	0.0020	mg/L		02/01/24 08:29	02/05/24 12:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/31/24 08:07	02/06/24 19:24	1
Arsenic	<0.0010	^+	0.0010	0.00023	mg/L		01/31/24 08:07	02/01/24 18:20	1
Barium	**0.12**		0.0025	0.00073	mg/L		01/31/24 08:07	02/01/24 18:20	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/31/24 08:07	02/06/24 19:24	1
Boron	**0.15**	**B**	0.050	0.013	mg/L		01/31/24 08:07	02/06/24 19:24	1
Cadmium	**0.00049**	**J**	0.00050	0.00017	mg/L		01/31/24 08:07	02/06/24 19:24	1
Calcium	**200**		0.20	0.044	mg/L		01/31/24 08:07	02/06/24 19:24	1
Chromium	<0.0050	^+	0.0050	0.0011	mg/L		01/31/24 08:07	02/01/24 18:20	1
Cobalt	**0.0043**		0.0010	0.00040	mg/L		01/31/24 08:07	02/01/24 18:20	1
Lead	**0.00031**	**J**	0.00050	0.00019	mg/L		01/31/24 08:07	02/01/24 18:20	1
Magnesium	**48**		0.20	0.049	mg/L		01/31/24 08:07	02/01/24 18:20	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/31/24 08:07	02/01/24 18:20	1
Potassium	**8.2**		0.50	0.11	mg/L		01/31/24 08:07	02/01/24 18:20	1
Selenium	<0.0025	^1+	0.0025	0.00098	mg/L		01/31/24 08:07	02/06/24 19:24	1
Sodium	**130**		0.20	0.077	mg/L		01/31/24 08:07	02/06/24 19:24	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/31/24 08:07	02/06/24 19:24	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**250**		5.0	0.58	mg/L			02/03/24 17:39	5
Sulfate (EPA 300.0)	**120**		5.0	1.0	mg/L			02/03/24 17:39	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**510**		5.0	3.7	mg/L			02/08/24 13:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			02/08/24 13:16	1
Total Dissolved Solids (SM 2540C)	**1200**		10	4.3	mg/L			01/29/24 03:53	1
Fluoride (SM 4500 F C)	**0.083**	**J**	0.10	0.056	mg/L			02/09/24 13:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.62**				ft			01/26/24 08:20	1
Field pH	**6.78**				SU			01/26/24 08:20	1
Field Temperature	**12.3**				Degrees C			01/26/24 08:20	1
Oxidation Reduction Potential	**101.3**				millivolts			01/26/24 08:20	1
Oxygen, Dissolved	**0.53**				mg/L			01/26/24 08:20	1
Specific Conductance	**1839**				umhos/cm			01/26/24 08:20	1
Turbidity	**0.97**				NTU			01/26/24 08:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_55
Date Collected: 01/22/24 10:45
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-48
Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	51.55				ft			01/22/24 10:45	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_XSG01
Date Collected: 01/22/24 13:55
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-49
Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	10.1				ft			01/22/24 13:55	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_YSG_ILRIVER

Date Collected: 01/22/24 14:20
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-50

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	22.07				ft			01/22/24 14:20	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Qualifiers

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Metals

Prep Batch: 751596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-22	HEN_52	Total Recoverable	Water	200.7	
500-245277-23	HEN_54	Total Recoverable	Water	200.7	
500-245277-24	HEN_54_FD	Total Recoverable	Water	200.7	
MB 500-751596/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-751596/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 751952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-22	HEN_52	Total Recoverable	Water	200.7 Rev 4.4	751596
500-245277-23	HEN_54	Total Recoverable	Water	200.7 Rev 4.4	751596
500-245277-24	HEN_54_FD	Total Recoverable	Water	200.7 Rev 4.4	751596
MB 500-751596/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	751596
LCS 500-751596/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	751596

Prep Batch: 751964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total Recoverable	Water	3005A	
500-245277-14	HEN_13	Total Recoverable	Water	3005A	
500-245277-15	HEN_16	Total Recoverable	Water	3005A	
500-245277-16	HEN_16_FD	Total Recoverable	Water	3005A	
500-245277-17	HEN_17	Total Recoverable	Water	3005A	
500-245277-19	HEN_46	Total Recoverable	Water	3005A	
500-245277-20	HEN_47	Total Recoverable	Water	3005A	
500-245277-22	HEN_52	Total Recoverable	Water	3005A	
500-245277-23	HEN_54	Total Recoverable	Water	3005A	
MB 500-751964/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-751964/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 752046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-24	HEN_54_FD	Total Recoverable	Water	3005A	
500-245277-30	HEN_08&D	Total Recoverable	Water	3005A	
MB 500-752046/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-752046/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 752130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-36	HEN_XPW01_PORE	Total Recoverable	Water	3005A	
500-245277-37	HEN_XPW02_PORE	Total Recoverable	Water	3005A	
500-245277-38	HEN_XPW03_PORE	Total Recoverable	Water	3005A	
500-245277-39	HEN_07	Total Recoverable	Water	3005A	
500-245277-40	HEN_08	Total Recoverable	Water	3005A	
MB 500-752130/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-752130/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 752276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total Recoverable	Water	200.7	
500-245277-14	HEN_13	Total Recoverable	Water	200.7	
500-245277-15	HEN_16	Total Recoverable	Water	200.7	
500-245277-16	HEN_16_FD	Total Recoverable	Water	200.7	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Metals (Continued)

Prep Batch: 752276 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-17	HEN_17	Total Recoverable	Water	200.7	
500-245277-19	HEN_46	Total Recoverable	Water	200.7	
500-245277-20	HEN_47	Total Recoverable	Water	200.7	
MB 500-752276/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-752276/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 752277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-30	HEN_08&D	Total Recoverable	Water	200.7	
500-245277-36	HEN_XPW01_PORE	Total Recoverable	Water	200.7	
500-245277-37	HEN_XPW02_PORE	Total Recoverable	Water	200.7	
500-245277-38	HEN_XPW03_PORE	Total Recoverable	Water	200.7	
500-245277-39	HEN_07	Total Recoverable	Water	200.7	
500-245277-40	HEN_08	Total Recoverable	Water	200.7	
MB 500-752277/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-752277/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 752304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total Recoverable	Water	6020B	751964
500-245277-14	HEN_13	Total Recoverable	Water	6020B	751964
500-245277-15	HEN_16	Total Recoverable	Water	6020B	751964
500-245277-16	HEN_16_FD	Total Recoverable	Water	6020B	751964
500-245277-17	HEN_17	Total Recoverable	Water	6020B	751964
500-245277-19	HEN_46	Total Recoverable	Water	6020B	751964
500-245277-20	HEN_47	Total Recoverable	Water	6020B	751964
500-245277-22	HEN_52	Total Recoverable	Water	6020B	751964
500-245277-23	HEN_54	Total Recoverable	Water	6020B	751964
MB 500-751964/1-A	Method Blank	Total Recoverable	Water	6020B	751964
LCS 500-751964/2-A	Lab Control Sample	Total Recoverable	Water	6020B	751964

Analysis Batch: 752468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-24	HEN_54_FD	Total Recoverable	Water	6020B	752046
500-245277-30	HEN_08&D	Total Recoverable	Water	6020B	752046
500-245277-36	HEN_XPW01_PORE	Total Recoverable	Water	6020B	752130
500-245277-37	HEN_XPW02_PORE	Total Recoverable	Water	6020B	752130
500-245277-38	HEN_XPW03_PORE	Total Recoverable	Water	6020B	752130
500-245277-39	HEN_07	Total Recoverable	Water	6020B	752130
500-245277-40	HEN_08	Total Recoverable	Water	6020B	752130
MB 500-752046/1-A	Method Blank	Total Recoverable	Water	6020B	752046
MB 500-752130/1-A	Method Blank	Total Recoverable	Water	6020B	752130
LCS 500-752046/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752046
LCS 500-752130/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752130

Prep Batch: 752474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	7470A	
500-245277-14	HEN_13	Total/NA	Water	7470A	
500-245277-15	HEN_16	Total/NA	Water	7470A	
500-245277-16	HEN_16_FD	Total/NA	Water	7470A	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Metals (Continued)

Prep Batch: 752474 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-752474/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-752474/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 752646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total Recoverable	Water	6020B	751964
500-245277-14	HEN_13	Total Recoverable	Water	6020B	751964
500-245277-15	HEN_16	Total Recoverable	Water	6020B	751964
500-245277-16	HEN_16_FD	Total Recoverable	Water	6020B	751964
500-245277-17	HEN_17	Total Recoverable	Water	6020B	751964
500-245277-19	HEN_46	Total Recoverable	Water	6020B	751964
500-245277-20	HEN_47	Total Recoverable	Water	6020B	751964
500-245277-22	HEN_52	Total Recoverable	Water	6020B	751964
500-245277-23	HEN_54	Total Recoverable	Water	6020B	751964
MB 500-751964/1-A	Method Blank	Total Recoverable	Water	6020B	751964
LCS 500-751964/2-A	Lab Control Sample	Total Recoverable	Water	6020B	751964

Analysis Batch: 752687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	7470A	752474
500-245277-14	HEN_13	Total/NA	Water	7470A	752474
500-245277-15	HEN_16	Total/NA	Water	7470A	752474
500-245277-16	HEN_16_FD	Total/NA	Water	7470A	752474
MB 500-752474/12-A	Method Blank	Total/NA	Water	7470A	752474
LCS 500-752474/13-A	Lab Control Sample	Total/NA	Water	7470A	752474

Prep Batch: 752693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-17	HEN_17	Total/NA	Water	7470A	
500-245277-19	HEN_46	Total/NA	Water	7470A	
500-245277-20	HEN_47	Total/NA	Water	7470A	
500-245277-22	HEN_52	Total/NA	Water	7470A	
500-245277-23	HEN_54	Total/NA	Water	7470A	
500-245277-24	HEN_54_FD	Total/NA	Water	7470A	
500-245277-30	HEN_08&D	Total/NA	Water	7470A	
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	7470A	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	7470A	
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	7470A	
500-245277-39	HEN_07	Total/NA	Water	7470A	
500-245277-40	HEN_08	Total/NA	Water	7470A	
MB 500-752693/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-752693/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 752818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-14	HEN_13	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-15	HEN_16	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-16	HEN_16_FD	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-17	HEN_17	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-19	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	752276

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Metals (Continued)

Analysis Batch: 752818 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-20	HEN_47	Total Recoverable	Water	200.7 Rev 4.4	752276
500-245277-30	HEN_08&D	Total Recoverable	Water	200.7 Rev 4.4	752277
500-245277-36	HEN_XPW01_PORE	Total Recoverable	Water	200.7 Rev 4.4	752277
500-245277-37	HEN_XPW02_PORE	Total Recoverable	Water	200.7 Rev 4.4	752277
500-245277-38	HEN_XPW03_PORE	Total Recoverable	Water	200.7 Rev 4.4	752277
500-245277-39	HEN_07	Total Recoverable	Water	200.7 Rev 4.4	752277
500-245277-40	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	752277
MB 500-752276/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	752276
MB 500-752277/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	752277
LCS 500-752276/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	752276
LCS 500-752277/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	752277

Analysis Batch: 752861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-17	HEN_17	Total/NA	Water	7470A	752693
500-245277-19	HEN_46	Total/NA	Water	7470A	752693
500-245277-20	HEN_47	Total/NA	Water	7470A	752693
500-245277-22	HEN_52	Total/NA	Water	7470A	752693
500-245277-23	HEN_54	Total/NA	Water	7470A	752693
500-245277-24	HEN_54_FD	Total/NA	Water	7470A	752693
500-245277-30	HEN_08&D	Total/NA	Water	7470A	752693
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	7470A	752693
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	7470A	752693
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	7470A	752693
500-245277-39	HEN_07	Total/NA	Water	7470A	752693
500-245277-40	HEN_08	Total/NA	Water	7470A	752693
MB 500-752693/12-A	Method Blank	Total/NA	Water	7470A	752693
LCS 500-752693/13-A	Lab Control Sample	Total/NA	Water	7470A	752693

Analysis Batch: 752984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-15	HEN_16	Total Recoverable	Water	6020B	751964
500-245277-16	HEN_16_FD	Total Recoverable	Water	6020B	751964
500-245277-17	HEN_17	Total Recoverable	Water	6020B	751964
500-245277-24	HEN_54_FD	Total Recoverable	Water	6020B	752046
500-245277-30	HEN_08&D	Total Recoverable	Water	6020B	752046
500-245277-36	HEN_XPW01_PORE	Total Recoverable	Water	6020B	752130
500-245277-37	HEN_XPW02_PORE	Total Recoverable	Water	6020B	752130
500-245277-38	HEN_XPW03_PORE	Total Recoverable	Water	6020B	752130
500-245277-39	HEN_07	Total Recoverable	Water	6020B	752130
500-245277-40	HEN_08	Total Recoverable	Water	6020B	752130
MB 500-751964/1-A	Method Blank	Total Recoverable	Water	6020B	751964
MB 500-752046/1-A	Method Blank	Total Recoverable	Water	6020B	752046
MB 500-752130/1-A	Method Blank	Total Recoverable	Water	6020B	752130
LCS 500-751964/2-A	Lab Control Sample	Total Recoverable	Water	6020B	751964
LCS 500-752046/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752046
LCS 500-752130/2-A	Lab Control Sample	Total Recoverable	Water	6020B	752130

Analysis Batch: 753282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-36	HEN_XPW01_PORE	Total Recoverable	Water	6020B	752130

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Metals (Continued)

Analysis Batch: 753282 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-37	HEN_XPW02_PORE	Total Recoverable	Water	6020B	752130
500-245277-38	HEN_XPW03_PORE	Total Recoverable	Water	6020B	752130

General Chemistry

Analysis Batch: 751719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	SM 2540C	
500-245277-14	HEN_13	Total/NA	Water	SM 2540C	
500-245277-15	HEN_16	Total/NA	Water	SM 2540C	
500-245277-16	HEN_16_FD	Total/NA	Water	SM 2540C	
500-245277-17	HEN_17	Total/NA	Water	SM 2540C	
500-245277-19	HEN_46	Total/NA	Water	SM 2540C	
500-245277-20	HEN_47	Total/NA	Water	SM 2540C	
MB 500-751719/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-751719/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 751720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-22	HEN_52	Total/NA	Water	SM 2540C	
500-245277-23	HEN_54	Total/NA	Water	SM 2540C	
500-245277-24	HEN_54_FD	Total/NA	Water	SM 2540C	
500-245277-30	HEN_08&D	Total/NA	Water	SM 2540C	
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	SM 2540C	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	SM 2540C	
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	SM 2540C	
500-245277-39	HEN_07	Total/NA	Water	SM 2540C	
500-245277-40	HEN_08	Total/NA	Water	SM 2540C	
MB 500-751720/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-751720/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-245277-22 DU	HEN_52	Total/NA	Water	SM 2540C	

Analysis Batch: 751763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	SM 2320B	
500-245277-14	HEN_13	Total/NA	Water	SM 2320B	
500-245277-15	HEN_16	Total/NA	Water	SM 2320B	
500-245277-16	HEN_16_FD	Total/NA	Water	SM 2320B	
500-245277-17	HEN_17	Total/NA	Water	SM 2320B	
MB 500-751763/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-751763/29	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 752307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	300.0	
500-245277-14	HEN_13	Total/NA	Water	300.0	
500-245277-15	HEN_16	Total/NA	Water	300.0	
500-245277-16	HEN_16_FD	Total/NA	Water	300.0	
500-245277-17	HEN_17	Total/NA	Water	300.0	
500-245277-19	HEN_46	Total/NA	Water	300.0	
500-245277-20	HEN_47	Total/NA	Water	300.0	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

General Chemistry (Continued)

Analysis Batch: 752307 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-22	HEN_52	Total/NA	Water	300.0	
500-245277-23	HEN_54	Total/NA	Water	300.0	
500-245277-24	HEN_54_FD	Total/NA	Water	300.0	
MB 500-752307/3	Method Blank	Total/NA	Water	300.0	
LCS 500-752307/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 752534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-30	HEN_08&D	Total/NA	Water	300.0	
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	300.0	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	300.0	
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	300.0	
500-245277-39	HEN_07	Total/NA	Water	300.0	
500-245277-40	HEN_08	Total/NA	Water	300.0	
MB 500-752534/3	Method Blank	Total/NA	Water	300.0	
LCS 500-752534/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 752833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-30	HEN_08&D	Total/NA	Water	300.0	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	300.0	
MB 500-752833/3	Method Blank	Total/NA	Water	300.0	
LCS 500-752833/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 753214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-19	HEN_46	Total/NA	Water	SM 2320B	
500-245277-20	HEN_47	Total/NA	Water	SM 2320B	
500-245277-22	HEN_52	Total/NA	Water	SM 2320B	
MB 500-753214/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-753214/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 753401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-23	HEN_54	Total/NA	Water	SM 2320B	
500-245277-24	HEN_54_FD	Total/NA	Water	SM 2320B	
500-245277-30	HEN_08&D	Total/NA	Water	SM 2320B	
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	SM 2320B	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	SM 2320B	
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	SM 2320B	
500-245277-39	HEN_07	Total/NA	Water	SM 2320B	
500-245277-40	HEN_08	Total/NA	Water	SM 2320B	
MB 500-753401/3	Method Blank	Total/NA	Water	SM 2320B	
MB 500-753401/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-753401/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-753401/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 753484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	SM 4500 F C	
500-245277-14	HEN_13	Total/NA	Water	SM 4500 F C	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

General Chemistry (Continued)

Analysis Batch: 753484 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-15	HEN_16	Total/NA	Water	SM 4500 F C	
500-245277-16	HEN_16_FD	Total/NA	Water	SM 4500 F C	
500-245277-17	HEN_17	Total/NA	Water	SM 4500 F C	
500-245277-19	HEN_46	Total/NA	Water	SM 4500 F C	
500-245277-20	HEN_47	Total/NA	Water	SM 4500 F C	
500-245277-22	HEN_52	Total/NA	Water	SM 4500 F C	
500-245277-23	HEN_54	Total/NA	Water	SM 4500 F C	
500-245277-24	HEN_54_FD	Total/NA	Water	SM 4500 F C	
500-245277-30	HEN_08&D	Total/NA	Water	SM 4500 F C	
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	SM 4500 F C	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	SM 4500 F C	
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	SM 4500 F C	
500-245277-39	HEN_07	Total/NA	Water	SM 4500 F C	
500-245277-40	HEN_08	Total/NA	Water	SM 4500 F C	
MB 500-753484/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-753484/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-753484/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-753484/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 753002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	Field Sampling	
500-245277-14	HEN_13	Total/NA	Water	Field Sampling	
500-245277-15	HEN_16	Total/NA	Water	Field Sampling	
500-245277-16	HEN_16_FD	Total/NA	Water	Field Sampling	
500-245277-17	HEN_17	Total/NA	Water	Field Sampling	
500-245277-19	HEN_46	Total/NA	Water	Field Sampling	
500-245277-20	HEN_47	Total/NA	Water	Field Sampling	
500-245277-22	HEN_52	Total/NA	Water	Field Sampling	
500-245277-23	HEN_54	Total/NA	Water	Field Sampling	
500-245277-24	HEN_54_FD	Total/NA	Water	Field Sampling	
500-245277-30	HEN_08&D	Total/NA	Water	Field Sampling	
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	Field Sampling	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	Field Sampling	
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	Field Sampling	
500-245277-39	HEN_07	Total/NA	Water	Field Sampling	
500-245277-40	HEN_08	Total/NA	Water	Field Sampling	

Analysis Batch: 753107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-48	HEN_55	Total/NA	Water	Field Sampling	
500-245277-49	HEN_XSG01	Total/NA	Water	Field Sampling	
500-245277-50	HEN_YSG_ILRIVER	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-751596/1-A
Matrix: Water
Analysis Batch: 751952

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 751596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		01/26/24 08:57	01/29/24 14:50	1

Lab Sample ID: LCS 500-751596/2-A
Matrix: Water
Analysis Batch: 751952

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 751596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.276		mg/L		110	85 - 115

Lab Sample ID: MB 500-752276/1-A
Matrix: Water
Analysis Batch: 752818

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		02/01/24 08:27	02/05/24 13:35	1

Lab Sample ID: LCS 500-752276/2-A
Matrix: Water
Analysis Batch: 752818

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.254		mg/L		102	85 - 115

Lab Sample ID: MB 500-752277/1-A
Matrix: Water
Analysis Batch: 752818

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		02/01/24 08:29	02/05/24 11:33	1

Lab Sample ID: LCS 500-752277/2-A
Matrix: Water
Analysis Batch: 752818

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.256		mg/L		102	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-751964/1-A
Matrix: Water
Analysis Batch: 752304

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.000257	J	0.0010	0.00023	mg/L		01/30/24 09:37	01/31/24 20:01	1
Barium	<0.0025		0.0025	0.00073	mg/L		01/30/24 09:37	01/31/24 20:01	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 09:37	01/31/24 20:01	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 09:37	01/31/24 20:01	1
Calcium	<0.20		0.20	0.044	mg/L		01/30/24 09:37	01/31/24 20:01	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 09:37	01/31/24 20:01	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

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

Lab Sample ID: MB 500-751964/1-A
Matrix: Water
Analysis Batch: 752304

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 09:37	01/31/24 20:01	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 09:37	01/31/24 20:01	1
Magnesium	0.0659	J	0.20	0.049	mg/L		01/30/24 09:37	01/31/24 20:01	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/30/24 09:37	01/31/24 20:01	1
Potassium	<0.50		0.50	0.11	mg/L		01/30/24 09:37	01/31/24 20:01	1
Sodium	0.0938	J	0.20	0.077	mg/L		01/30/24 09:37	01/31/24 20:01	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 09:37	01/31/24 20:01	1

Lab Sample ID: MB 500-751964/1-A
Matrix: Water
Analysis Batch: 752646

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 09:37	02/02/24 13:53	1
Selenium	<0.0025		0.0025	0.00098	mg/L		01/30/24 09:37	02/02/24 13:53	1

Lab Sample ID: MB 500-751964/1-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	<0.050		0.050	0.013	mg/L		01/30/24 09:37	02/06/24 14:54	1

Lab Sample ID: LCS 500-751964/2-A
Matrix: Water
Analysis Batch: 752304

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.102		mg/L		102	80 - 120
Barium	0.500	0.542		mg/L		108	80 - 120
Beryllium	0.0500	0.0429		mg/L		86	80 - 120
Cadmium	0.0500	0.0528		mg/L		106	80 - 120
Calcium	10.0	8.00		mg/L		80	80 - 120
Chromium	0.200	0.203		mg/L		102	80 - 120
Cobalt	0.500	0.514		mg/L		103	80 - 120
Lead	0.100	0.0994		mg/L		99	80 - 120
Magnesium	10.0	10.5		mg/L		105	80 - 120
Molybdenum	1.00	0.974		mg/L		97	80 - 120
Potassium	10.0	10.5		mg/L		105	80 - 120
Sodium	10.0	10.4		mg/L		104	80 - 120
Thallium	0.100	0.0985		mg/L		98	80 - 120

Lab Sample ID: LCS 500-751964/2-A
Matrix: Water
Analysis Batch: 752646

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.511	^1+	mg/L		102	80 - 120
Selenium	0.100	0.0968		mg/L		97	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

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

Lab Sample ID: LCS 500-751964/2-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 751964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	0.935		mg/L		93	80 - 120

Lab Sample ID: MB 500-752046/1-A
Matrix: Water
Analysis Batch: 752468

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00023	mg/L		01/30/24 17:00	02/01/24 15:50	1
Barium	<0.0025		0.0025	0.00073	mg/L		01/30/24 17:00	02/01/24 15:50	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/30/24 17:00	02/01/24 15:50	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/30/24 17:00	02/01/24 15:50	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/30/24 17:00	02/01/24 15:50	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/30/24 17:00	02/01/24 15:50	1
Magnesium	<0.20		0.20	0.049	mg/L		01/30/24 17:00	02/01/24 15:50	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/30/24 17:00	02/01/24 15:50	1
Potassium	<0.50		0.50	0.11	mg/L		01/30/24 17:00	02/01/24 15:50	1
Sodium	<0.20		0.20	0.077	mg/L		01/30/24 17:00	02/01/24 15:50	1

Lab Sample ID: MB 500-752046/1-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752046

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/30/24 17:00	02/06/24 17:37	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/30/24 17:00	02/06/24 17:37	1
Boron	<0.050		0.050	0.013	mg/L		01/30/24 17:00	02/06/24 17:37	1
Calcium	<0.20		0.20	0.044	mg/L		01/30/24 17:00	02/06/24 17:37	1
Selenium	<0.0025	^1+	0.0025	0.00098	mg/L		01/30/24 17:00	02/06/24 17:37	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/30/24 17:00	02/06/24 17:37	1

Lab Sample ID: LCS 500-752046/2-A
Matrix: Water
Analysis Batch: 752468

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0944		mg/L		94	80 - 120
Barium	0.500	0.488		mg/L		98	80 - 120
Cadmium	0.0500	0.0499		mg/L		100	80 - 120
Chromium	0.200	0.206		mg/L		103	80 - 120
Cobalt	0.500	0.476		mg/L		95	80 - 120
Lead	0.100	0.0922		mg/L		92	80 - 120
Magnesium	10.0	9.19		mg/L		92	80 - 120
Molybdenum	1.00	0.951		mg/L		95	80 - 120
Potassium	10.0	9.23		mg/L		92	80 - 120
Sodium	10.0	9.20		mg/L		92	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

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

Lab Sample ID: LCS 500-752046/2-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752046

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.534	^1+	mg/L		107	80 - 120
Beryllium	0.0500	0.0502		mg/L		100	80 - 120
Boron	1.00	0.944		mg/L		94	80 - 120
Calcium	10.0	8.60		mg/L		86	80 - 120
Selenium	0.100	0.102	^1+	mg/L		102	80 - 120
Thallium	0.100	0.0962		mg/L		96	80 - 120

Lab Sample ID: MB 500-752130/1-A
Matrix: Water
Analysis Batch: 752468

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00023	mg/L		01/31/24 08:07	02/01/24 17:31	1
Barium	<0.0025		0.0025	0.00073	mg/L		01/31/24 08:07	02/01/24 17:31	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		01/31/24 08:07	02/01/24 17:31	1
Chromium	<0.0050		0.0050	0.0011	mg/L		01/31/24 08:07	02/01/24 17:31	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		01/31/24 08:07	02/01/24 17:31	1
Lead	<0.00050		0.00050	0.00019	mg/L		01/31/24 08:07	02/01/24 17:31	1
Magnesium	<0.20		0.20	0.049	mg/L		01/31/24 08:07	02/01/24 17:31	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		01/31/24 08:07	02/01/24 17:31	1
Potassium	<0.50		0.50	0.11	mg/L		01/31/24 08:07	02/01/24 17:31	1
Sodium	0.169	J	0.20	0.077	mg/L		01/31/24 08:07	02/01/24 17:31	1

Lab Sample ID: MB 500-752130/1-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	^1+	0.0030	0.0013	mg/L		01/31/24 08:07	02/06/24 18:39	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		01/31/24 08:07	02/06/24 18:39	1
Boron	0.0176	J	0.050	0.013	mg/L		01/31/24 08:07	02/06/24 18:39	1
Calcium	<0.20		0.20	0.044	mg/L		01/31/24 08:07	02/06/24 18:39	1
Selenium	<0.0025	^1+	0.0025	0.00098	mg/L		01/31/24 08:07	02/06/24 18:39	1
Thallium	<0.0020		0.0020	0.00057	mg/L		01/31/24 08:07	02/06/24 18:39	1

Lab Sample ID: LCS 500-752130/2-A
Matrix: Water
Analysis Batch: 752468

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0996		mg/L		100	80 - 120
Barium	0.500	0.465		mg/L		93	80 - 120
Cadmium	0.0500	0.0495		mg/L		99	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.500	0.473		mg/L		95	80 - 120
Lead	0.100	0.0893		mg/L		89	80 - 120
Magnesium	10.0	8.80		mg/L		88	80 - 120
Molybdenum	1.00	0.936		mg/L		94	80 - 120
Potassium	10.0	9.01		mg/L		90	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

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

Lab Sample ID: LCS 500-752130/2-A
Matrix: Water
Analysis Batch: 752468

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sodium	10.0	8.92		mg/L		89	80 - 120

Lab Sample ID: LCS 500-752130/2-A
Matrix: Water
Analysis Batch: 752984

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 752130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.522	^1+	mg/L		104	80 - 120
Beryllium	0.0500	0.0519		mg/L		104	80 - 120
Boron	1.00	0.914		mg/L		91	80 - 120
Calcium	10.0	8.33		mg/L		83	80 - 120
Selenium	0.100	0.100	^1+	mg/L		100	80 - 120
Thallium	0.100	0.0966		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-752474/12-A
Matrix: Water
Analysis Batch: 752687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 752474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/02/24 09:55	02/05/24 08:15	1

Lab Sample ID: LCS 500-752474/13-A
Matrix: Water
Analysis Batch: 752687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 752474

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

Lab Sample ID: MB 500-752693/12-A
Matrix: Water
Analysis Batch: 752861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 752693

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000079	mg/L		02/05/24 10:45	02/06/24 08:36	1

Lab Sample ID: LCS 500-752693/13-A
Matrix: Water
Analysis Batch: 752861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 752693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00224		mg/L		112	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-752307/3
Matrix: Water
Analysis Batch: 752307

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.140	J	1.0	0.12	mg/L			02/01/24 11:00	1
Sulfate	<1.0		1.0	0.21	mg/L			02/01/24 11:00	1

Lab Sample ID: LCS 500-752307/4
Matrix: Water
Analysis Batch: 752307

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	21.8		mg/L		109	90 - 110
Sulfate	20.0	20.9		mg/L		105	90 - 110

Lab Sample ID: MB 500-752534/3
Matrix: Water
Analysis Batch: 752534

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			02/03/24 11:20	1
Sulfate	<1.0		1.0	0.21	mg/L			02/03/24 11:20	1

Lab Sample ID: LCS 500-752534/4
Matrix: Water
Analysis Batch: 752534

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.2		mg/L		101	90 - 110
Sulfate	20.0	19.9		mg/L		99	90 - 110

Lab Sample ID: MB 500-752833/3
Matrix: Water
Analysis Batch: 752833

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			02/06/24 11:49	1
Sulfate	<1.0		1.0	0.21	mg/L			02/06/24 11:49	1

Lab Sample ID: LCS 500-752833/4
Matrix: Water
Analysis Batch: 752833

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.5		mg/L		102	90 - 110
Sulfate	20.0	20.0		mg/L		100	90 - 110

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-751763/28
Matrix: Water
Analysis Batch: 751763

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			01/26/24 20:23	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			01/26/24 20:23	1

Lab Sample ID: LCS 500-751763/29
Matrix: Water
Analysis Batch: 751763

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	107		mg/L		107	90 - 110

Lab Sample ID: MB 500-753214/3
Matrix: Water
Analysis Batch: 753214

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	13.6		5.0	3.7	mg/L			02/02/24 09:56	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			02/02/24 09:56	1

Lab Sample ID: LCS 500-753214/4
Matrix: Water
Analysis Batch: 753214

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	109		mg/L		109	90 - 110

Lab Sample ID: MB 500-753401/3
Matrix: Water
Analysis Batch: 753401

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			02/08/24 10:58	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			02/08/24 10:58	1

Lab Sample ID: MB 500-753401/53
Matrix: Water
Analysis Batch: 753401

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	6.31		5.0	3.7	mg/L			02/08/24 17:42	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			02/08/24 17:42	1

Lab Sample ID: LCS 500-753401/29
Matrix: Water
Analysis Batch: 753401

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	109		mg/L		109	90 - 110

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 500-753401/4
Matrix: Water
Analysis Batch: 753401

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	107		mg/L		107	90 - 110

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

Lab Sample ID: MB 500-751719/1
Matrix: Water
Analysis Batch: 751719

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			01/29/24 01:47	1

Lab Sample ID: LCS 500-751719/2
Matrix: Water
Analysis Batch: 751719

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	248		mg/L		99	80 - 120

Lab Sample ID: MB 500-751720/1
Matrix: Water
Analysis Batch: 751720

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			01/29/24 02:54	1

Lab Sample ID: LCS 500-751720/2
Matrix: Water
Analysis Batch: 751720

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	236		mg/L		94	80 - 120

Lab Sample ID: 500-245277-22 DU
Matrix: Water
Analysis Batch: 751720

Client Sample ID: HEN_52
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	580		594		mg/L		3	5

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-753484/3
Matrix: Water
Analysis Batch: 753484

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			02/09/24 10:43	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: MB 500-753484/31
Matrix: Water
Analysis Batch: 753484

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			02/09/24 12:56	1

Lab Sample ID: LCS 500-753484/32
Matrix: Water
Analysis Batch: 753484

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	9.90		mg/L		99	90 - 119

Lab Sample ID: LCS 500-753484/4
Matrix: Water
Analysis Batch: 753484

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	9.96		mg/L		100	90 - 119

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_12
Date Collected: 01/24/24 11:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 15:14
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:00
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 15:25
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 [1]
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 09:21
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 13:05
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 19:33
Total/NA	Analysis	SM 2540C		1	751719	CLB	EET CHI	01/29/24 02:28
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 11:07
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 11:55

Client Sample ID: HEN_13
Date Collected: 01/24/24 12:41
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 15:18
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:03
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 15:29
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 [1]
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 09:23
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 13:21
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 19:42
Total/NA	Analysis	SM 2540C		1	751719	CLB	EET CHI	01/29/24 02:30
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 11:11
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 12:41

Client Sample ID: HEN_16
Date Collected: 01/24/24 10:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 15:22
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:07
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 16:08

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_16
Date Collected: 01/24/24 10:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 15:38
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 09:25
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 13:37
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 19:55
Total/NA	Analysis	SM 2540C		1	751719	CLB	EET CHI	01/29/24 02:33
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 11:16
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 10:55

Client Sample ID: HEN_16_FD
Date Collected: 01/24/24 10:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 15:26
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:10
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 16:11
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 15:41
Total/NA	Prep	7470A			752474	MJG	EET CHI	02/02/24 09:55 - 02/02/24 11:55 ¹
Total/NA	Analysis	7470A		1	752687	MJG	EET CHI	02/05/24 09:27
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 13:52
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 20:04
Total/NA	Analysis	SM 2540C		1	751719	CLB	EET CHI	01/29/24 02:36
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 11:20
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 10:55

Client Sample ID: HEN_17
Date Collected: 01/24/24 11:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 15:30
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:14
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 16:15
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 ¹
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 15:45

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_17
Date Collected: 01/24/24 11:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 08:40
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 14:39
Total/NA	Analysis	SM 2320B		1	751763	SO	EET CHI	01/26/24 20:13
Total/NA	Analysis	SM 2540C		1	751719	CLB	EET CHI	01/29/24 02:38
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 11:25
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 11:55

Client Sample ID: HEN_46
Date Collected: 01/24/24 13:10
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 15:47
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:27
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 16:25
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 08:44
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 15:10
Total/NA	Analysis	SM 2320B		1	753214	SO	EET CHI	02/02/24 10:37
Total/NA	Analysis	SM 2540C		1	751719	CLB	EET CHI	01/29/24 02:43
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 11:44
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 13:10

Client Sample ID: HEN_47
Date Collected: 01/24/24 14:30
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752276	BDE	EET CHI	02/01/24 08:27 - 02/01/24 14:27 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 15:51
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:31
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 16:29
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 08:46
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 15:26
Total/NA	Analysis	SM 2320B		1	753214	SO	EET CHI	02/02/24 10:47
Total/NA	Analysis	SM 2540C		1	751719	CLB	EET CHI	01/29/24 02:46

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_47
Date Collected: 01/24/24 14:30
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 11:49
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 14:30

Client Sample ID: HEN_52
Date Collected: 01/24/24 10:25
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			751596	BDE	EET CHI	01/26/24 08:57 - 01/26/24 13:57 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	751952	SJ	EET CHI	01/29/24 15:27
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:38
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 16:42
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 08:50
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 15:57
Total/NA	Analysis	SM 2320B		1	753214	SO	EET CHI	02/02/24 11:05
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 03:06
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 11:58
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 10:25

Client Sample ID: HEN_54
Date Collected: 01/24/24 13:57
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			751596	BDE	EET CHI	01/26/24 08:57 - 01/26/24 13:57 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	751952	SJ	EET CHI	01/29/24 15:32
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752304	RN	EET CHI	01/31/24 21:41
Total Recoverable	Prep	3005A			751964	BDE	EET CHI	01/30/24 09:37 - 01/30/24 15:37 [1]
Total Recoverable	Analysis	6020B		1	752646	RN	EET CHI	02/02/24 16:46
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 08:53
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 16:13
Total/NA	Analysis	SM 2320B		1	753401	SO	EET CHI	02/08/24 17:19
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 03:12
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 12:03
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 13:57

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_54_FD
Date Collected: 01/24/24 13:57
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			751596	BDE	EET CHI	01/26/24 08:57 - 01/26/24 13:57 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	751952	SJ	EET CHI	01/29/24 15:36
Total Recoverable	Prep	3005A			752046	MC	EET CHI	01/30/24 17:00 - 01/30/24 23:00 [1]
Total Recoverable	Analysis	6020B		1	752468	RN	EET CHI	02/01/24 16:16
Total Recoverable	Prep	3005A			752046	MC	EET CHI	01/30/24 17:00 - 01/30/24 23:00 [1]
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 17:41
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 08:59
Total/NA	Analysis	300.0		5	752307	NMB	EET CHI	02/01/24 16:28
Total/NA	Analysis	SM 2320B		1	753401	SO	EET CHI	02/08/24 17:29
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 03:14
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 12:07
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/24/24 13:57

Client Sample ID: HEN_08&D
Date Collected: 01/25/24 13:05
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752277	BDE	EET CHI	02/01/24 08:29 - 02/01/24 14:29 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 12:06
Total Recoverable	Prep	3005A			752046	MC	EET CHI	01/30/24 17:00 - 01/30/24 23:00 [1]
Total Recoverable	Analysis	6020B		1	752468	RN	EET CHI	02/01/24 16:50
Total Recoverable	Prep	3005A			752046	MC	EET CHI	01/30/24 17:00 - 01/30/24 23:00 [1]
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 18:05
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 09:14
Total/NA	Analysis	300.0		5	752534	W1T	EET CHI	02/03/24 15:07
Total/NA	Analysis	300.0		20	752833	W1T	EET CHI	02/06/24 13:50
Total/NA	Analysis	SM 2320B		1	753401	SO	EET CHI	02/08/24 11:47
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 03:30
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 12:46
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/25/24 13:05

Client Sample ID: HEN_XPW01_PORE
Date Collected: 01/25/24 08:45
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752277	BDE	EET CHI	02/01/24 08:29 - 02/01/24 14:29 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 12:31
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	752468	RN	EET CHI	02/01/24 17:59

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_XPW01_PORE
Date Collected: 01/25/24 08:45
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 19:10
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	753282	RN	EET CHI	02/08/24 11:53
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 09:27
Total/NA	Analysis	300.0		5	752534	W1T	EET CHI	02/03/24 16:08
Total/NA	Analysis	SM 2320B		1	753401	SO	EET CHI	02/08/24 12:36
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 03:43
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 13:20
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/25/24 08:45

Client Sample ID: HEN_XPW02_PORE
Date Collected: 01/25/24 09:30
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752277	BDE	EET CHI	02/01/24 08:29 - 02/01/24 14:29 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 12:36
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	752468	RN	EET CHI	02/01/24 18:09
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 19:14
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	753282	RN	EET CHI	02/08/24 11:57
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 09:29
Total/NA	Analysis	300.0		5	752534	W1T	EET CHI	02/03/24 16:23
Total/NA	Analysis	300.0		20	752833	W1T	EET CHI	02/06/24 15:36
Total/NA	Analysis	SM 2320B		1	753401	SO	EET CHI	02/08/24 12:45
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 03:45
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 13:36
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/25/24 09:30

Client Sample ID: HEN_XPW03_PORE
Date Collected: 01/25/24 10:30
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752277	BDE	EET CHI	02/01/24 08:29 - 02/01/24 14:29 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 12:40
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	752468	RN	EET CHI	02/01/24 18:13

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_XPW03_PORE
Date Collected: 01/25/24 10:30
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 19:17
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	753282	RN	EET CHI	02/08/24 12:01
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 09:31
Total/NA	Analysis	300.0		5	752534	W1T	EET CHI	02/03/24 16:38
Total/NA	Analysis	SM 2320B		1	753401	SO	EET CHI	02/08/24 12:56
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 03:48
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 13:42
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/25/24 10:30

Client Sample ID: HEN_07
Date Collected: 01/26/24 08:50
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752277	BDE	EET CHI	02/01/24 08:29 - 02/01/24 14:29 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 12:44
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	752468	RN	EET CHI	02/01/24 18:16
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 19:21
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 09:33
Total/NA	Analysis	300.0		5	752534	W1T	EET CHI	02/03/24 17:24
Total/NA	Analysis	SM 2320B		1	753401	SO	EET CHI	02/08/24 13:07
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 03:50
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 13:48
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/26/24 08:50

Client Sample ID: HEN_08
Date Collected: 01/26/24 08:20
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			752277	BDE	EET CHI	02/01/24 08:29 - 02/01/24 14:29 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	752818	SJ	EET CHI	02/05/24 12:48
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	752468	RN	EET CHI	02/01/24 18:20
Total Recoverable	Prep	3005A			752130	BDE	EET CHI	01/31/24 08:07 - 01/31/24 14:07 [1]
Total Recoverable	Analysis	6020B		1	752984	RN	EET CHI	02/06/24 19:24
Total/NA	Prep	7470A			752693	MJG	EET CHI	02/05/24 10:45 - 02/05/24 12:45 [1]
Total/NA	Analysis	7470A		1	752861	MJG	EET CHI	02/06/24 09:35

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Client Sample ID: HEN_08
Date Collected: 01/26/24 08:20
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	752534	W1T	EET CHI	02/03/24 17:39
Total/NA	Analysis	SM 2320B		1	753401	SO	EET CHI	02/08/24 13:16
Total/NA	Analysis	SM 2540C		1	751720	CLB	EET CHI	01/29/24 03:53
Total/NA	Analysis	SM 4500 F C		1	753484	SO	EET CHI	02/09/24 13:53
Total/NA	Analysis	Field Sampling		1	753002	DN	EET CHI	01/26/24 08:20

Client Sample ID: HEN_55
Date Collected: 01/22/24 10:45
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-48
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	753107	DN	EET CHI	01/22/24 10:45

Client Sample ID: HEN_XSG01
Date Collected: 01/22/24 13:55
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-49
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	753107	DN	EET CHI	01/22/24 13:55

Client Sample ID: HEN_YSG_ILRIVER
Date Collected: 01/22/24 14:20
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-50
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	753107	DN	EET CHI	01/22/24 14:20

[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: HEN-24Q1

Job ID: 500-245277-10
SDG: HEN_257_803

Laboratory: Eurofins Chicago

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

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

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

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

500-245277

CHAIN-OF-CUSTODY / Analytical Request Document

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

HEN-257-803

Page: 1 of 3

Section A Required Client Information:
Company: Vistra Corp-Hennepin
Address: 13498 E 800th St
Hennepin, IL 61327
Email To: Brian.Voelker@VistraCorp.com
Phone (217) 753-8911 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:
Report To: Brian Voelker
Copy To: Jason Stuckey Jason.Stuckey@vistracorp.com
Sam Davies samantha.davies@vistracorp.com
Purchase Order No.
Project Name
Project Number: 50022619

Section C Invoice Information:
Attention: Dave McCoy
Company Name: A3 Environmental
Address: 3030 Warrenville Rd , Suite 418
Warrenville, IL 60532
Project Manager
Profile #:

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

500-245277 COC

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I D
	HEN-02																							X			A		SHORT HOLDS - NO2
	HEN-03R																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-05IR																X				X							E		SHORT HOLDS - NO2
	HEN-05&DR																X				X							E		SHORT HOLDS - NO2
	HEN-07																X	X	X			X	X		X		X	B		SHORT HOLDS - NO2
	HEN-08																X	X	X		X	X	X		X		X	C		SHORT HOLDS NO2
	HEN-08&D																X	X	X		X	X	X		X		X	C		SHORT HOLDS - NO2
	HEN-10																X				X				X			D		SHORT HOLDS - NO2
	HEN-12																X			X	X		X				X	F		SHORT HOLDS - NO2
	HEN-13																X			X	X		X				X	F		SHORT HOLDS - NO2
	HEN-16																X	X		X			X				X	G		
	HEN-17																X	X		X			X				X	G		
	HEN-18#S																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-18&D																	X				X			X		X	B		SHORT HOLDS - NO2
1	HEN-21R	WT	G	1/23/24	1240		24	N		N										X				X		X	X	H		MS/MSD
2	HEN-22	WT	G	1/23/24	1520		8	N		N										X				X		X	X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/24/24	0700				
	J. Ellias	1/24/24	1220		1/24/24	1220	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Allison Beckett
SIGNATURE of SAMPLER: Beckett
DATE Signed (MM/DD/YY): 1/23/24

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

Temp = 2.6 → 2.1, 3.7 → 3.2, 1.8 → 2.3

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 2 HEN-257-803

Section A Required Client Information:
Company: Vistra Corp-Hennepin
Address: 13498 E 800th St
Hennepin, IL 61327
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:
Report To: Brian Voelker
Copy To: Jason Stuckey Jason Stuckey@vistracorp com
Sam Davies samantha davies@vistracorp com
Purchase Order No.
Project Name:
Project Number: 50022619

Section C Invoice Information:
Attention: Dave McCoy
Company Name: A3 Environmental
Address: 3030 Warrenville Rd , Suite 418
Warrenville, IL 60532
Project Manager
Profile #:

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

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I D
3	HEN-22&D	WT	G	1/23/24	1500		8	✓		✓										X				X		X	X	H		
	HEN-23																			X				X		X	X	H		
	HEN-25																			X								J		DTW ONLY
	HEN-26																			X								J		DTW ONLY
4	HEN-27	WT	G	1/23/24	1045		8	✓		✓										X				X		X	X	H		
	HEN-30																			X								J		DTW ONLY
	HEN-31																			X								J		DTW ONLY
5	HEN-32	WT	G	1/23/24	0930		8	✓		✓										X				X		X	X	H		
	HEN-33																			X								J		DTW ONLY
6	HEN-34	WT	G	1/23/24	1150		8	✓		✓										X				X		X	X	H		
7/8	HEN-35	WT	G	1/23/24	1340		8	✓		✓										X				X		X	X	H		DUPE
	HEN-36																			X								J		DTW ONLY
	HEN-40#S																X				X							E		SHORT HOLDS - NO2
	HEN-45#S																	X				X		X			X	B		SHORT HOLDS - NO2
	HEN-46																		X				X				X	G		
	HEN-47																		X				X				X	G		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/24/24	0730		1/24/24	1005	
		1/24/24	1234		1/24/24	1220	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Allison Beckett
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 1/23/24

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:
Section B Required Project Information:
Section C Invoice Information:

Page: 3 of 3

800-245222-1

Company: Vistra Energy Corp-Hennepin	Report To: Brian Voelker	Attention: Dave McCoy	REGULATORY AGENCY
Address: 13498 E 800th St	Copy To: Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name: A3 Environmental	NPDES GROUND WATER DRINKING WATER
Hennepin, IL 61327		Address: 3030 Warrenville Rd , Suite 418	UST RCRA OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.	Warrenville, IL 60532	
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager	Site Location STATE: IL
Requested Due Date/TAT: 10 day	Project Number: 50022619	Profile #:	

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I D
	HEN-48	WT	G	1/23/24														X										I		
9	HEN-49	WT	C	1/23/24	1010		24	N		N											X			X		X	X	H		
10	HEN-50	WT	C	1/23/24	1010		8	N		N											X			X		X	X	H		
	HEN-51																				X			X		X	X	H		
	HEN-52																			X			X				X	G		
	HEN-54																			X			X				X	G		
	HEN-55																			X			X					J		DTW ONLY
	HEN-XPW01-pore																			X			X				X	G		
	HEN-XPW02-pore																			X			X				X	G		
	HEN-XPW03-pore																			X			X				X	G		
	HEN-XSG01																			X			X					J		DTW ONLY
	HEN-FB																		X			X		X	X		X	C		SHORT HOLDS - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/24/24	0700		1/24/24	1005	
		1/24/24	1220		1/24/24	1220	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Allison Beckett

DATE Signed (MM/DD/YY): 1/23/24

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 3

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Hennepin	Report To	Brian Voelker	Attention	Dave McCoy
Address	13498 E 800th St	Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	A3 Environmental
	Hennepin, IL 61327			Address	3030 Warrenville Rd , Suite 418
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.			Warrenville, IL 60532
Phone	(217) 753-8911 Fax	Project Name		Project Manager	
Requested Due Date/TAT	10 day	Project Number	50022619	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

500-245277 COC

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I D.
11	HEN-02	WT	G	1/24/24	1510		10	↘	↘	↘	↘	↘													X			A		SHORT HOLDS - NO2
	HEN-03R																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-05IR																X				X						E		SHORT HOLDS - NO2
	HEN-05&DR																X				X						E		SHORT HOLDS - NO2
	HEN-07																X	X	X			X	X		X		X	B		SHORT HOLDS - NO2
	HEN-08																X	X	X		X	X	X		X		X	C		SHORT HOLDS - NO2
	HEN-08&D																X	X	X		X	X	X		X		X	C		SHORT HOLDS - NO2
12	HEN-10	WT	G	1/24/24	1600		13	↘	↘	↘	↘										X				X			D		SHORT HOLDS - NO2
13	HEN-12	WT	G	1/24/24	1155		13	↘	↘	↘	↘								X		X		X				X	F		SHORT HOLDS - NO2
14	HEN-13	WT	G	1/24/24	1241		19	↘	↘	↘	↘								X		X		X				X	F		SHORT HOLDS - NO2
15/16	HEN-16	WT	G	1/24/24	1055		12	↘	↘	↘							X		X				X				X	G		DUPE
17	HEN-17	WT	G	1/24/24	1155		6	↘	↘	↘							X		X				X				X	G		
	HEN-18IS																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-18&D																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-21R																			X				X		X	X	H		
	HEN-22																			X				X		X	X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/25/24	0700	E.J. Ellias	1/25/24	0940	
	E.J. Ellias	1/25/24	1151	Stephanie Hernandez EEA	01/25/24	1151	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Allison Beckett
SIGNATURE of SAMPLER: Beckett
DATE Signed (MM/DD/YY): 1/24/24

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

Temp: 4.4+3.9, 5.7+5.2, 5.6+5.1, 4.9+4.4

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 2 HEN-257-803 3

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To.	Brian Voelker	Attention	Dave McCoy
Address	13498 E 800th St	Copy To.	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	A3 Environmental
	Hennepin, IL 61327			Address	3030 Warrenville Rd , Suite 418
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No			Warrenville, IL 60532
Phone	(217) 753-8911 Fax	Project Name		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	50022619	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN-22&D~~																				X			X		X	X	H		
18	HEN-23	WT	G	1/24/24	0835		8	✓		✓											X			X		X	X	H		
	~~HEN-25~~																				X							J		~~DTW ONLY~~
	~~HEN-26~~																				X							J		~~DTW ONLY~~
	HEN-27																				X			X		X	X	H		
	HEN-30																				X							J		DTW ONLY
	HEN-31																				X							J		DTW ONLY
	~~HEN-32~~																				X			X		X	X	H		
	HEN-33																				X							J		DTW ONLY
	HEN-34																				X			X		X	X	H		
	HEN-35																				X			X		X	X	H		
	HEN-36																				X							J		DTW ONLY
	~~HEN-40#S~~																	X				X						E		~~SHORT HOLDS - NO2~~
	~~HEN-45#S~~																		X				X		X		X	B		~~SHORT HOLDS - NO2~~
19	HEN-46	WT	G	1/24/24	1310		6	✓		✓										X			X			X	G		
20	HEN-47	WT	G	1/24/24	1430		10	✓		✓										X			X			X	G		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/25/24	0700	R. J. Ellison	1/25/24	0840	
	R. J. Ellison	1/25/24	1151	Sukhonia Hemmons EEA	1/25/24	1151	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER	Allison Beckett				
SIGNATURE of SAMPLER	Beckett	DATE Signed (MM/DD/YY)	1/24/24	Temp in °C	Received on Ice (Y/N) / Custody Sealed Cooler (Y/N) / Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Section B Section C

Page 3 of 3

AB

Required Client Information:		Required Project Information:		Invoice Information:	
Company	Vistra Energy Corp-Hennepin	Report To:	Brian Voelker	Attention:	Dave McCoy
Address	13498 E 800th St	Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	A3 Environmental
	Hennepin, IL 61327			Address	3030 Warrenville Rd , Suite 418
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.			Warrenville, IL 60532
Phone	(217) 753-8911 Fax:	Project Name		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50022619	Profile #:	

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

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN-48~~																X												
	HEN-49																			X				X		X	X	H	
	~~HEN-50~~	WT	G	1/24/24	1100															X				X		X	X	H	
21	HEN-51	WT	G	1/24/24	0900		8	✓		✓										X				X		X	X	H	
22	HEN-52	WT	G	1/24/24	1025		6	✓		✓									X				X				X	G	
23/24	HEN-54	WT	G	1/24/24	1357		12	✓		✓									X				X				X	G		DUPE
	~~HEN-55~~																		X				X					J		DTW ONLY
	HEN-XPW01-pore																		X				X				X	G		
	~~HEN-XPW02-pore~~																		X				X				X	G		
	HEN-XPW03-pore																		X				X				X	G		
	~~HEN-XSG01~~																		X				X					J		DTW ONLY
25	HEN-FB	WT	G	1/24/24	1010													X			X			X	X		X	C		SHORT HOLDS - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett ABE	1/25/24	0700	R.J. Ellis	1/25/25	0940	
	R.J. Ellis	1/25/24	1151	Stephanie Hemandez EEIA	1125/24	1151	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER	Allison Beckett				
SIGNATURE of SAMPLER	Beckett	DATE Signed (MM/DD/YY)	1/24/24	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-245277

Page 1 of 3

Section A Required Client Information:

Company	Vistra Corp-Hennepin
Address	13498 E 800th St Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax:
Requested Due Date/TAT	10 day

Section B Required Project Information

Report To	Brian Voelker
Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number	50022619

Section C Invoice Information

Attention:	Dave McCoy
Company Name	A3 Environmental
Address	3030 Warrenville Rd , Suite 418 Warrenville, IL 60532
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

500-245277 COC

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN-02~~																							X			A		~~SHORT HOLDS - NO2~~
26 27	HEN-03R	WT	G	1/25/24	1215		30	V	✓	✓	✓	✓						X				X			X		X	B		SHORT HOLDS - NO2 DUPE!
28	HEN-05IR	WT	G	1/25/24	1350		11	✓	✓	✓		✓					X				X						E		SHORT HOLDS - NO2
29	HEN-05&DR	WT	G	1/25/24	1550		11	✓	✓	✓		✓					X				X						E		SHORT HOLDS - NO2
	~~HEN-07~~																X	X	X		X	X	X		X		X	B		SHORT HOLDS - NO2
	HEN-08																~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~		~~X~~	~~C~~		~~SHORT HOLDS - NO2~~
30	HEN-08&D	WT	G	1/25/24	1305		10	✓	✓	✓		✓					X	X	X		X	X	X		X		X	C		SHORT HOLDS - NO2
	~~HEN-10~~																				X				X			D		SHORT HOLDS - NO2
	HEN-12																		X		X		X				X	F		SHORT HOLDS - NO2
31	HEN-TB HEN-13			1/25/24															X		X		X				X	F		SHORT HOLDS - NO2
	HEN-16																X		X				X				X	G		
	~~HEN-17~~																~~X~~		~~X~~				~~X~~				~~X~~	~~G~~		
32	HEN-18#S	WT	G	1/25/24	1330		15	✓	✓	✓	✓	✓						X				X			X		X	B		SHORT HOLDS - NO2
33	HEN-18&D	WT	G	1/25/24	1440		15	✓	✓	✓	✓	✓						X				X			X		X	B		SHORT HOLDS - NO2
	~~HEN-21R~~																			X				X		X	X	H		
	HEN-22																			X				X		X	X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/26/24	0700	[illegible] EETA	1/26/24	1145	WS 01/26/24
	[illegible]	1-26-24	1145	[illegible] EETA	01/26/24	1145	

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	Allison Beckett					
SIGNATURE of SAMPLER	Beckett	DATE Signed (MM/DD/YY) 1/25/24				

4.6+4.1, 3.8+3.3, 3.1+2.6, 3.2+2.7, 4.9+4.4

CHAIN-OF-CUSTODY / Analytical Request Document

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A — Required Client Information:
Company: Vistra Corp-Hennepin
Address: 13498 E 800th St
Hennepin, IL 61327
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax
Requested Due Date/TAT: 10 day

Section B — Required Project Information
Report To: Brian Voelker
Copy To: Jason Stuckey Jason.Stuckey@vistracorp.com
Sam Davies samantha.davies@vistracorp.com
Purchase Order No.:
Project Name:
Project Number: 60022619

Section C — Invoice Information:
Attention: Dave McCoy
Company Name: A3 Environmental
Address: 3030 Warrenville Rd , Suite 418
Warrenville, IL 60532
Project Manager:
Profile #:

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

Requested Analysis Filtered (Y/N)

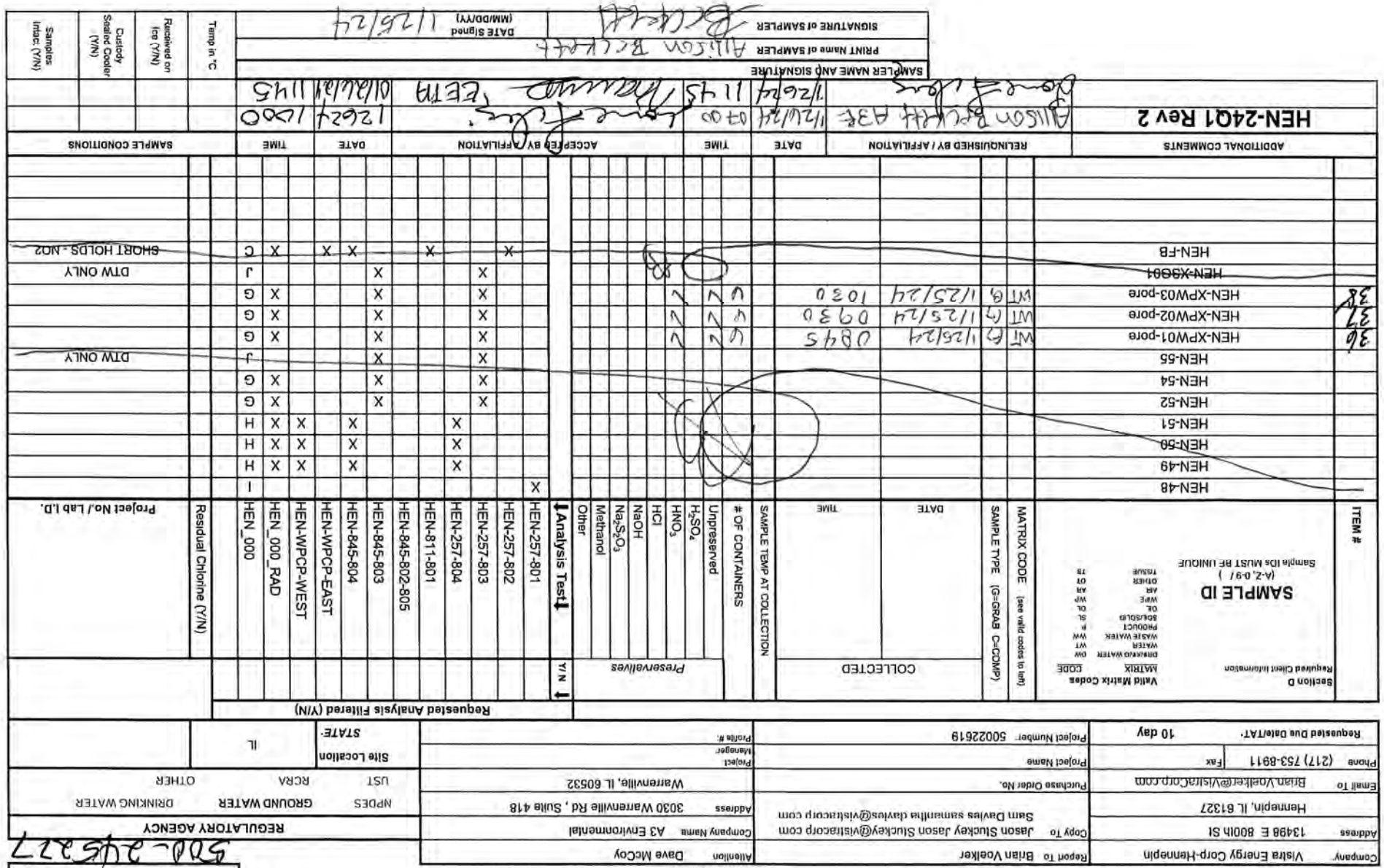
Item #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: DATE	COLLECTED: TIME	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_000	HEN_000_RAD	HEN-WPCP-WEST	HEN-WPCP-EAST	HEN-845-804	HEN-845-803	HEN-845-802-805	HEN-811-801	HEN-257-804	HEN-257-803	HEN-257-802	HEN-257-801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	HEN-22RD	DRINKING WATER DW; WATER WW; WASTE WATER WW; PRODUCT P; SOLID/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS																												
	HEN-23																													
	HEN-25																													
	HEN-26																													
	HEN-27																													
	HEN-30																													
	HEN-31																													
	HEN-32																													
	HEN-33																													
	HEN-34																													
	HEN-35																													
	HEN-36																													
	HEN-40#S	WT	G	1/25/24	1415		11	2	2	2																				
	HEN-45#S	WT	G	1/25/24	1145		15	2	2	2																				
	HEN-46																													
	HEN-47																													

Sample Condition	Time	Date	Accepted By / Affiliation	Time	Date	Relinquished By / Affiliation	Additional Comments
				1145	1/26/24	Brian Voelker	HEN-240I Rev 2
	1045	1/26/24		0700	1/10/24	Allison Beckett A3E	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Allison Beckett
SIGNATURE of SAMPLER: Allison Beckett
DATE Signed (MM/DD/YY): 1/25/24

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

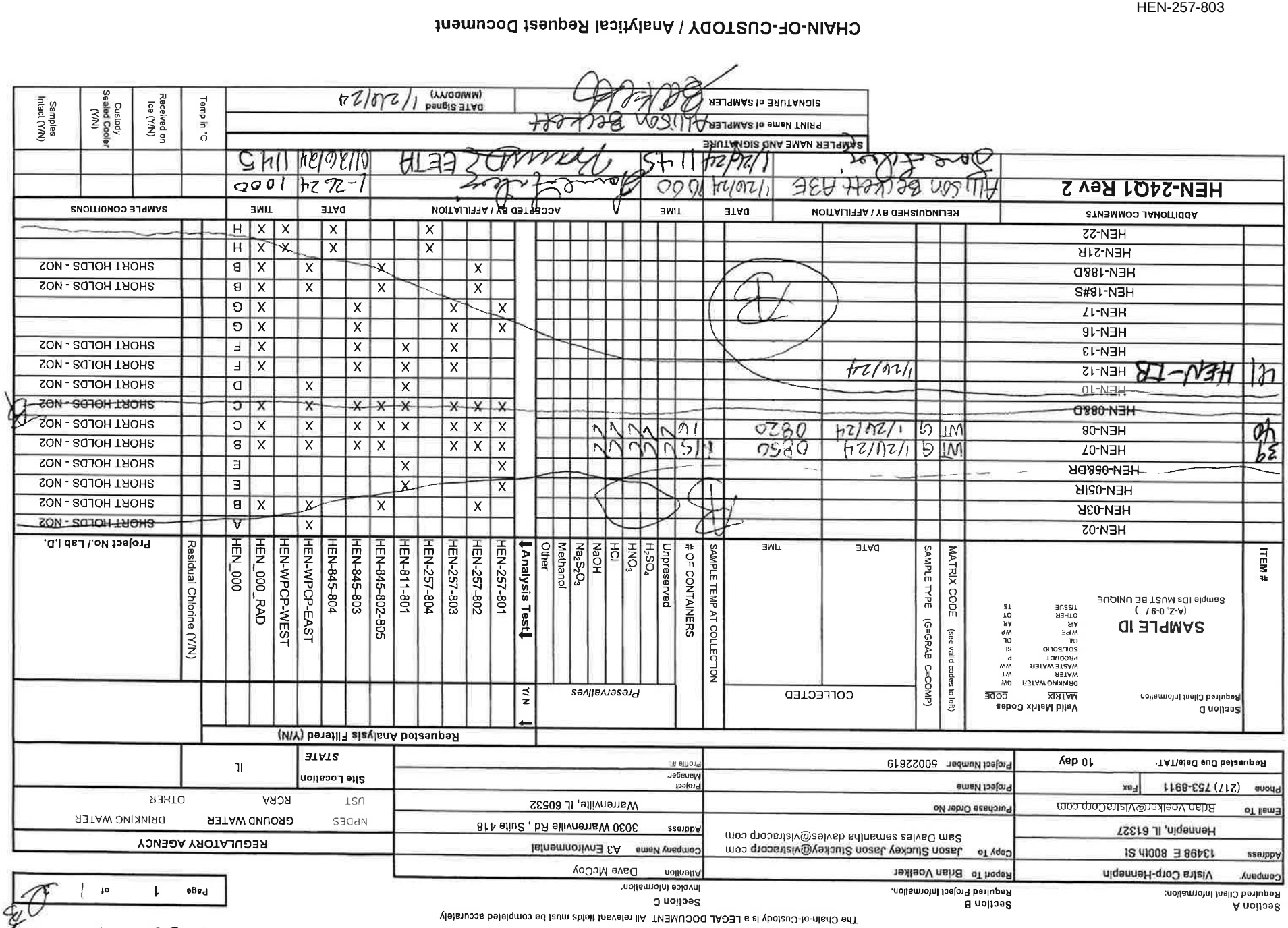
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02/21/24



CHAIN-OF-CUSTODY / Analytical Request Document

HEN-240I Rev 2

Section A
Required Client Information:
Company: Vistra Corp-Hennepin
Address: 13498 E 800th St
Hennepin, IL 61327
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax
Project Name:
Project Number: 5002619
Purchase Order No:
Requested Due Date/TAT: 10 day
Site Location STATE: IL
Manager:
Profile #:

Section B
Required Project Information:
Report To: Brian Voelker
Copy To: Jason Stuckey Jason.Stuckey@Vistracorp.com
Sam Davies samantha.davies@Vistracorp.com
Company Name: A3 Environmental
Address: 3030 Warrenville Rd , Suite 418
Warrenville, IL 60532
Attention: Dave McCoy

Section C
Invoice Information:
Company Name:
Address:
Attention:

REGULATORY AGENCY
NPDES UST RCRA OTHER
GROUND WATER DRINKING WATER

Section D
Required Client Information
Valid Matrix Codes
MATRIX / CODE
DRINKING WATER DW
WATER WT
WASTE WATER WW
PRODUCT P
SOIL/SOLID SL
OIL OL
WIPE WP
AIR AR
OTHER OT
TISSUE TS
SAMPLE ID
(A-Z, 0-9 /)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN-02																	
2	HEN-03R																	
3	HEN-05IR																	
4	~~HEN-05&DR~~																	
5	HEN-07	WT	G	1/24/24	0950		1	X										
6	HEN-08	WT	G	1/24/24	0820		1	X										
7	~~HEN-08&D~~																	
8	HEN-10																	
9	HEN-12			1/24/24			1	X										
10	HEN-13																	
11	HEN-16																	
12	HEN-17																	
13	HEN-18#S																	
14	HEN-18&D																	
15	HEN-21R																	
	HEN-22																	

Requested Analysis Filtered (Y/N)

HEN_000	HEN_000_RAD	HEN-WPCP-WEST	HEN-WPCP-EAST	HEN-845-804	HEN-845-803	HEN-845-802-805	HEN-811-801	HEN-257-804	HEN-257-803	HEN-257-802	HEN-257-801
~~A~~			X								
~~B~~	X		X			X				X	
E							X				X
E							X				X
B	X		X		X	X			X	X	X
C	X		X		X	X	X		X	X	X
~~C~~	~~X~~		~~X~~		~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~
D			X				X				
F	X				X		X		X		
F	X				X		X		X		
G	X				X				X		X
G	X				X				X		X
B	X		X			X				X	
B	X		X			X				X	
H	X	X		X					X		
H	X	X		X					X		

SAMPLE CONDITIONS

Samples Intact (Y/N)	Custody Sealed Cooler (Y/N)	Received on Ice (Y/N)	Temp in °C	TIME	DATE	SAMPLER NAME AND SIGNATURE
				1100	1-26-24	
				1145	01/26/24	

PRINT Name of SAMPLER: Allison Beckett
SIGNATURE of SAMPLER
DATE Signed (MM/DD/YY): 1/26/24

Page 1 of 1

CHAIN-OF-CUSTODY / Analytical Request Document

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

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-245277-10
SDG Number: HEN_257_803

Login Number: 245277
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1,3.2,2.3,3.9,5.2,5.1,4.4,4.1,3.3,2.6,2.7,4.4
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	

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.0054 Start Date: 1/24/24 Time: 1440
Field Personnel: AB/LF Finish Date: 1/24/24 Time: 1525

WELL INFORMATION

Well ID: HEN-02
Transducer Serial #: N/A

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	PRE	1445	0	44.85		3%	+.1	3%	10%	10%	+10	Clear
5	PURGE	1447		44.85		11.0	7.50	850	9.72	5.07	85.1	" "
10		1452		44.85		11.0	7.11	800	6.58	1.54	95.3	" "
15		1457		44.85		11.0	7.11	793	6.69	1.[illegible]12	95.8	" "
20		1502		44.85		11.1	7.11	791	6.72	0.76	97.4	" "
25		1507	2.25	44.85		11.1	7.11	790	6.74	0.109	97.7	" "

NOTES (continued)

Sampled @ 1510 10 bottles

Nitric
Sod. Hyd.
Un.
SVF.

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
na - Conductance
SEC - Specific Electrical
SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024-0054 Task #:
Start Date: 1-25-24 Time: 1115
Field Personnel: AB/LF Finish Date: 1/25/24 Time: 1225

WELL INFORMATION

Well ID: Hen-03R
Transducer Serial #: 21615140

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0 Pre	1115		35.85		3%	+.1	3%	10%	10%	+10	Cloudy
5 Purge	1120		35.85		15.0	7.36	878	1.56	167.66	66.8	
10	1125		35.85		14.7	7.34	876	1.60	67.70	64.7	
15	1130		35.86		14.4	7.33	876	1.51	31.55	58.8	
20	1135		35.85		14.4	7.33	876	1.41	23.47	55.5	
25	1140		35.89		14.6	7.33	877	1.39	16.80	50.0	
30	1145		35.89		14.7	7.32	876	1.35	18.50	49.7	
35	1150		35.89		15.1	7.32	877	1.29	12.46	49.1	
40	1155		35.90		15.0	7.32	877	1.33	13.38	49.0	
45	1200		35.90		15.0	7.31	877	1.26	11.98	47.3	
50	1205		35.90		15.0	7.31	877	1.27	10.04	46.6	
55	1210		35.91		15.0	7.31	877	1.28	8.97	46.5	
60	1215	5Gal	35.9		15.0	7.31	877	1.28	8.98	46.6	

NOTES (continued)

Timed out at 1 hr. Sample at 1215

Dupe Sample at 1225

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance
FT BTOC - Feet Below Top of Casing na - SU - Standard Units

15 Bottles
15 Dupe Bottles

Had to Run Pump at a Higher Pressure to Get Water to Pump.
125/150 PSI

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.0054 Start Date: 1/25/24 Time: 1430
Field Personnel: AB/LF Finish Date: 1/25/24 Time: 1810

WELL INFORMATION

Well ID: HEN_05!R
Transducer Serial #: N/A

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	1440	0	~~41.06~~ 41.06		3%	+.1	3%	10%	10%	+10	clear
5	purge	~~1502~~ 1506	1	41.06		14.6	7.70	852	0.88	40.68	124.8	"
10		1511		41.06		14.7	7.70	851	1.08	39.70	121.0	"
15		1516	2	41.06		14.9	7.69	851	0.85	25.99	114.4	"
20		1521	2	41.06		14.9	7.69	853	0.88	14.91	110.2	"
25		1526		41.06		15.0	7.69	852	1.13	12.91	106.7	murky
30		1531		41.06		15.1	7.69	854	1.03	6.80	104.0	"
35		1536		41.06		15.1	7.69	856	0.94	5.21	101.4	"
40		1541	3.5	41.06		15.2	7.69	857	1.02	8.54	100.0	"
45		1546		41.06		15.2	7.69	851	0.96	4.55	98.7	
50		~~1550~~		~~41.06~~								

NOTES (continued)

Sampled @ 1550 *bladder

11 bottles

pumped air into YSI, but still stabilized

*took 30 min to get water out of well (use high pressure)

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: 2024-0054 Task #: Start Date: 1-25-24 Time: 1515

Field Personnel: AB/LF Finish Date: 1/25/24 Time: 16

WELL INFORMATION

Well ID: Hen- [redacted].05 ADR

Transducer Serial #:

EVENT TYPE

Well Development
Well Volume Approach Sampling

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1518		41.09		3%	+.1	3%	10%	10%	+10	Clear
Purge	1520		41.09		12.7	7.60	795	3.87	4.04	68.1	
25	1525		41.10		12.9	7.54	794	1.35	3.45	61.2	
30	1530		41.10		13.6	7.53	795	1.23	2.95	58.8	
35	1535		41.10		13.6	7.53	796	1.20	2.60	56.1	
40	1540		41.10		13.4	7.53	796	1.18	2.81	55.7	
45	1545		41.11		13.2	7.53	795	1.15	[redacted]	55.7	
50	1550		41.11		13.2	7.53	794	1.13	2.89 2.916	55.8	
55											
00											

NOTES (continued)

Sample @ 1550

11 Bottles

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.0054 Start Date: 1/26/24 Time: 0800
Field Personnel: AB/LF Finish Date: 1/26/24 Time: 0850

WELL INFORMATION

Well ID: HEN-07
Transducer Serial #: 21615139

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
	pre	800	0	68.7		3%	+.1	3%	10%	10%	+10	
	purge	805		68.7		9.9	6.99	1025	4.66	2.37	144.2	
10		810		68.7		10.1	6.97	1037	4.40	3.97	141.3	
15		815		68.7		10.1	6.97	1035	4.35	1.03	140.3	
20		820		68.7		10.1	6.97	1034	4.35	1.07	138.7	
25		825		68.7		10.1	6.97	1034	4.33	1.82	137.8	
30		830		68.7		10.1	6.97	1029	4.33	3.26	137.8	
35		835		68.7		10.0	6.97	1026	4.23	8.70	138.8	
40		840		68.7		10.0	6.97	1027	4.30	6.80	139.7	
45		845		68.7		10.0	6.97	1030	4.33	6.45	141.7	
50		850		68.7		10.0	6.97	1026	4.30	5.90	143.4	

NOTES (continued)

sampled @ 0850

15 bottles

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.0054 Start Date: 1/26/24 Time: 0745
Field Personnel: AB/LF Finish Date: 1/26/24 Time: 0845

WELL INFORMATION

Well ID: HEN_08
Transducer Serial #: 21615138

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	0755	0	53.62		3%	+.1	3%	10%	10%	+10	clear
5	purge	0758		53.62		12.3	6.86	1853	5.21	1.38	81.3	" "
10		0803				12.3	6.79	1850	0.62	1.32	95.4	" "
15		0808				12.3	6.78	1851	0.52	1.18	97.7	" "
20		0813				12.3	6.79	1844	0.53	1.10	100.1	" "
25		0818				12.3	6.78	1839	0.53	0.97	101.3	" "
30		0823										

NOTES (continued)

Sampled @ 0820

16 bottles

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: Task #: 2024.0054 Start Date: 1/25/24 Time: ~~1155~~ 1215

Field Personnel: AB/LF Finish Date: 1/25/24 Time: 1325

WELL INFORMATION

Well ID: HEN_08D

Transducer Serial #: 21615598

EVENT TYPE

Well Development

Well Volume Approach Sampling

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	1223	0	54.09		3%	+.1	3%	10%	10%	+10	clear
5	purge	1225		54.09		10.8	7.21	1799	9.32	5.04	104.6	"
10		1230		54.09		11.9	6.77	2244	3.98	2.97	102.7	"
15		1235	1	54.09		12.4	6.71	2363	4.94	5.01	95.0	"
20		1240		54.09		12.4	6.70	2390	0.90	5.18	91.2	"
25		1245		54.09		12.5	6.69	2396	0.72	5.06	89.4	"
30		1250		54.09		12.4	6.69	2396	0.56	5.23	87.5	"
35		1255		54.09		12.4	6.69	2393	0.54	5.04	86.8	"
40		1300	2.5	54.09		12.5	6.69	2389	0.50	4.40	86.7	

NOTES (continued)

1U bottles

~~Sair~~ is being pumped through YSI from bladder, but still stabilized

Unpres.

Sulf. acid

Hyd. acid

Sod. Hyd

Nitric

Sampled @ 1305

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number 2024-0054 Task #: Start Date: 1/24/24 Time: 1510
Field Personnel: AB/LF Finish Date: 1/24/24 Time: 1600

WELL INFORMATION

Well ID: Hen-10
Transducer Serial #: N/A

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1510		50.71		3%	+.1	3%	10%	10%	+10	clear
Purge	1515		50.71		14.2	7.17	950	3.52	.52	179.6	↓
	1520		50.71		13.5	7.16	945	3.85	.55	176.6	
	1525		50.71		13.8	7.15	945	4.01	.83	172.7	
	1530		50.71		14.0	7.15	943	4.05	.83	172.7	
	1535		50.71		14.1	7.15	944	3.97	.75	176.2	
	1540		50.71		14.1	7.15	945	3.93	.69	176.2	
	1545		50.71		14.3	7.16	944	3.93	.66	176.5	
	1550		50.71		14.3	7.15	944	3.89	.59	176.9	
	1555		50.71		14.3	7.15	945	3.82	.98	177.9	
	1600		50.71	4GAL	14.3	7.15	946	3.81	.56	178.0	

NOTES (continued)

Sample at 1600

13 Bottles

Sul/Acid
Nitric Acid
Sodium Hydrox.
Sulfuric Acid
Hydrochloric Acid

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: Task #: 2024.0054 Start Date: 1/24/24 Time: 1120

Field Personnel: AB/LF Finish Date: 1/24/24 Time: 1210

WELL INFORMATION

Well ID: HEN_12

Transducer Serial #: 21615520

EVENT TYPE

Well Development

Well Volume Approach Sampling

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	1130	0	51.30		3%	+.1	3%	10%	10%	+10	clear
5	purge	1133		51.30		13.1	7.65	780	7.32	2.03	66.5	"
10		1138		51.29		14.7	7.45	795	3.80	1.03	42.3	"
15		1143	0.75	51.30		15.2	7.42	796	3.26	1.05	56.8	"
20		1148		51.29		15.3	7.41	797	3.19	0.84	53.1	"
25		1153		51.29		15.4	7.41	797	3.16	1.46	52.5	"
30												
35												

NOTES (continued)

Sampled @ 1155

*air being pumped through bladder, but still stabilized

13 Bottles

Nitric
Sulfuric
Soq Hyd

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.0054 Start Date: 1/24/24 Time: 1210
Field Personnel: AB/LF Finish Date: 1/24/24 Time: 1302

WELL INFORMATION

Well ID: HEN-13
Transducer Serial #: 21615515

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	PRE	1213	0	51.29		3%	+.1	3%	10%	10%	+10	clear
5	purge	1215		51.30		14.7	7.56	776	5.04	2.82	49.9	"
10		1220		51.30		13.8	7.41	786	2.78	2.17	43.7	"
15		1225	1	51.30		14.0	7.45	809	2.43 ↔ 1.58		54.3	"
20		1230		51.30		14.2	7.47	834	0.99	3.78	44.9	"
25		1235		51.29		14.2	7.47	835	0.93	1.0	41.1	"
30		1240	2	51.29		14.3	7.47	838	0.89	0.99	37.2	"

NOTES (continued)

Sampled @ 1241

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units

Sulfuric
Nitric
Sod. Hyd.

4
~~12~~ bottles

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: Task #: 2024.0054 Start Date: 1/24/24 Time: ~~0000~~ 0955

Field Personnel: AB/LF Finish Date: 1/24/24 Time: 1115

WELL INFORMATION

Well ID: HEN-16

Transducer Serial #: 21615534

EVENT TYPE

Well Development
Well Volume Approach Sampling

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	1020	0	54.33		3%	+.1	3%	10%	10%	+10	clear
5	purge	1021		54.34		16.1	7.34	801	6.55	65.84	48.4	" "
10		1026		54.35		12.2	7.34	792	4.30	84.45	40.6	" "
15		1031	0.5	54.33		16.3	7.33	811	0.78	105.32	24.2	" "
20		1036		54.33		16.1	7.32	813	0.75	2.39	14.8	" "
25		1041		54.34		16.1	7.31	813	0.52	2.62	4.2	" "
30		1046	1.5	54.33		16.1	7.31	812	0.46	3.50	-0.09	" "
35		1051		54.34		16.0	7.31	8.14	0.48	3.64	-4.2	" "

NOTES (continued)

Sampled @ 1055 DUPe!

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
FT BTOC - Feet Below Top of Casing na -

12 bottles

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.2005.54 Start Date: 1/24/24 Time: 1110
Field Personnel: LF/AB Finish Date: 1/24/24 Time: 1155 1423

WELL INFORMATION

Well ID: Hen-17
Casing ID: 2 6/15.500 inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1110		58.90		3%	+.1	3%	10%	10%	+10	Clear
Purge	1110		58.90		14.3	6.96	1107	3.09	5.76	127.9	
	1115		58.90		14.0	6.96	1114	3.02	2.47	128.7	
	1120		58.90		14.0	6.96	1111	2.92	2.30	129.1	
	1125		58.90		13.9	6.96	1112	2.94	1.69	131.2	
	1130		58.90		14.1	6.97	1109	2.97	3.17	133.5	
	1135		58.90		13.9	6.99	1091	3.56	2.34	135.6	
	1140		58.90		14.1	6.97	1107	3.41	2.17	139.2	
	1145		58.90		14.0	6.97	1110	3.38	2.46	141.3	
	1150		58.90		14.1	6.97	1109	3.34	2.48	142.8	
	1155	3.5 Gal	58.90		14.1	6.99	1110	3.32	2.49	142.7	

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units

Sample @ 1155 / Air Bubbles in water Line & YSI

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0057 Task #: Start Date: 1.25.24 Time: 1355
Field Personnel: AB/LF Finish Date: 1/25/24 Time: 1440

WELL INFORMATION

Well ID: Hen-18 MW
Transducer Serial #: 21615609

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1355		40.50		3%	+.1	3%	10%	10%	+10	
Purge	1355		40.50		13.16	7.29	861	1.22	25.28	36.6	
00	1400		40.50		14.1	7.29	859	1.14	31.24	37.5	
05	1405		40.53		14.2	7.29	861	1.07	35.00	35.4	
10	1410		40.53		14.2	7.29	859	1.10	42.82	22.7	
15	1415		40.53		14.1	7.30	859	1.10	30.29	4.1	
20	1420		40.54		14.1	7.30	858	1.05	29.60	-14.7	
25	1425		40.54		14.3	7.29	857	1.02	34.29	-14.0	
30	1430		40.54		14.5	7.29	858	1.02	29.22	-12.6	
35	1435		40.55		14.5	7.29	856	.97	28.40	-11.7	
40	1440	3.5gal	40.55		14.5	7.29	856	.95	28.20	-10.5	
45											

NOTES (continued)

Sample at 1440
15 BOTTLES

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 20240054 Task #: Start Date: 1/25/24 Time: 1300
Field Personnel: AB/LF Finish Date: 1/25/24 Time: 1330

WELL INFORMATION

Well ID: Hen 18#5
Transducer Serial #: 21615482

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1300		40.35		3%	+.1	3%	10%	10%	+10	Clear
Purge	1300		40.35		13.2	7.50	828	.93	7.71	70.1	
05	1305		40.35		13.2	7.49	826	1.13	5.79	61.5	
10	1310		40.35		13.2	7.49	825	1.20	3.55	53.5	
15	1315		40.35		13.4	7.49	826	1.25	3.26	50.7	
20	1320		40.35		13.5	7.49	827	1.16	2.91	45.6	
25	1325		40.35		13.4	7.48	827	1.17	2.87	45.0	
30	1330		40.35		13.3	7.49	827	1.17	2.81	44.8	
35		3Gal									
40											
45											

NOTES (continued)

Sample @ 1330

15 Bottles

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.0054 Start Date: 1/23/24 Time: 1200
Field Personnel: AB/LF Finish Date: 1/23/24 Time: 1305

WELL INFORMATION

Well ID: HEN_21R
Transducer Serial #: 21615013

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	1202		5.33		3%	+.1	3%	10%	10%	+10	murky
5		1210 15		5.39		11.1	7.59	1121	1.02	170.10	-183.4	" "
10		1220	1.5	5.35		10.3	7.59	1125	0.97	135.42	-180.4	" "
15		1225		5.3		10.2	7.59	1122	1.26	131.83	-180.0	" "
20		1230		5.38		10.01	7.59	1121	1.35	132.90	-178.7	" "
25		1235		5.38		10.01	7.59	1121	1.38	130.21	-179.7	" "
30		~~1240~~										

NOTES (continued)

Sampled @ 1240

*Well/bladder may be damaged ↳ sending air through YSI, but was still stable

MS/MSD

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024-0054 Task #: Start Date: 1/23/24 Time: 1440
Field Personnel: AB/LF Finish Date: 1/23/24 Time: 1535

WELL INFORMATION

Well ID: HEN-22
Transducer Serial #: 21615497

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1440		17.95		3%	+.1	3%	10%	10%	+10	Clear
Purge	1440		17.95		13.1	7.63	935	300	4.00	77.2	
	1445		17.95		13.8	7.64	936	0.34	5.58	66.8	
	1450		17.95		14.1	7.65	935	0.21	10.58	57.9	
	1455		17.95		14.0	7.66	935	0.16	8.80	51.9	
	1500		17.95		14.00	7.67	934	0.12	13.69	46.5	
	1505		17.95		14.2	7.66	933	0.10	28.74	41.3	
	1510		17.95		14.2	7.66	933	0.10	19.76	37.4	
	1515		17.95		14.1	7.66	935	0.10	19.94	36.3	
		36 GAL									

NOTES (continued)

Sampled At 1520

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing na -
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.0054 Start Date: 1/23/24 Time: 1430
Field Personnel: AB/LF Finish Date: 1/23/24 Time: 1520

WELL INFORMATION

Well ID: HEN-228D
Transducer Serial #: 215104134

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	PRE	1430	0	18.73		3%	+.1	3%	10%	10%	+10	Clear
5	PURGE	1435		19.33		11.1	7.47	1047	1.89	13.23	-73.1	"
10		1440		19.80		12.8	7.37	1072	2.42	21.70	-101.6	"
15		1445	1	18.80		12.8	7.37	1086	1.43	19.08	-119.1	"
20		1450		18.80		12.9	7.37	1086	1.29	18.101	-124.3	"
25		1455		18.80		12.8	7.37	1085	1.23	17.47	-128.5	"
30		1500	2.5	18.80		12.6	7.38	1083	1.24	17.22	-129.8	"

NOTES (continued)

Sampled @ 1500

*bladder/pump is sending air into YSI, but is still stable

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.00554 Start Date: 1/24/24 Time: 0750
Field Personnel: AB/LF Finish Date: 1/24/24 Time: 0852

WELL INFORMATION

Well ID: HEN_23
Transducer Serial #: 21615400

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	0800	0	10.48		3%	+.1	3%	10%	10%	+10	Clear
5	purge	0805		14.62		12.1	7.58	1152	1.57	10.0	-120.1	" "
10		0810		10.40		12.1	7.56	1150	0.22	5.93	-151.9	" "
15		0815	1.5	14.45		11.6	7.58	1145	0.14	4.79	-154.4	" "
20		0820		10.62		11.3	7.58	1133	0.13	4.47	-152.9	" "
25		0825		10.58		11.4	7.57	1134	0.11	5.02	-148.2	" "
30		0830		10.40		11.5	7.56	1133	0.12	4.09	-144.9	" "
35		0835	2.5	14.40		11.4	7.56	1134	0.11	6.25	-145.9	" "

NOTES (continued)

Sampled @ 0835

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 1/23/24 Time: 0945
Field Personnel: AB/LF Finish Date: 1/23/24 Time:

WELL INFORMATION

Well ID: HEN-27
Transducer Serial #: 21015576

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
						3%	+.1	3%	10%	10%	+10	
0	pre	0949	0	3.76								
5	purge	0950		3.77		9.1	7.37	1059	1.50	12.58	71.8	clear
10		0955	0.5	3.77		9.5	7.26	1079	0.15	10.19	13.0	"
15		1000		3.77		9.7	7.25	1087	-0.17	09.90	-25.2	"
20		1005		3.77		9.7	7.25	1088	-0.21	70.71	-26.2	"
25		1010	1	3.77		9.9	7.25	1088	-0.26	40.75	-38.0	"
30		1015		3.77		9.7	7.25	1088	-0.29	45.35	-45.5	"
35		1020	1.5	3.77		9.7	7.25	1088	-0.30	32.37	-48.7	"
40		1025		3.77		9.8	7.26	1088	-0.31	24.54	-52.4	"
45		1030		3.77		9.8	7.25	1089	-0.32	16.62	-57.5	"
50		1035	2.5	3.77		9.9	7.25	1088	-0.32	18.51	-61.2	"
55		1040	~~2.5~~	3.77		9.8	7.25	1087	-0.33	18.22	-62.0	"
60		1045	3	3.77		9.7	7.25	1089	-0.30	18.13	-65.4	"
65												

NOTES (continued)

Sampled @1045 *did not stabilize until last minute?

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
na - Conductance
SEC - Specific Electrical
SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: [redacted] Task #: 2024.0054 Start Date: 1/23/24 Time: 0815

Field Personnel: AB/LF Finish Date: 1/23/24 Time: 0940

WELL INFORMATION

Well ID: HEN-32

Transducer Serial #: 21615487

EVENT TYPE

Well Development

Well Volume Approach Sampling

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
						3%	+.1	3%	10%	10%	+10	
0	pre	0840	0.[redacted]5	4.54								[redacted]
5	purge	08[redacted]44		4.44		10.5	7.19	[redacted]1012	1.43	1460.06	178.0	murkey
10		0849	1	4.[redacted]8		10.4	7.17	1011	0.68	87.20	176.7	1
15		08[redacted]54		4.60		10.7	7.16	1006	0.33	72.78	172.0	1
20		0859	1.75	4.60		10.7	7.16	1001	0.07	54.83	165.9	
25		0904	[redacted]	4.60		10.8	7.16	1002	0.01	47.03	163.6	
30		0909		4.60		10.8	7.16	999	-0.04	37.19	159.8	
35		0914	3	4.60		10.8	7.15	999	-0.05	30.09	158.3	
40		0919		4.60		10.[redacted]2	7.16	998	-0.03	29.80	158.0	
45		0924		4.60		10.1	7.16	999	-0.08	30.61	157.5	
50		0929	4.5	4.60		10.2	7.16	1001	-0.07	29.73	157.1	
55												
60												

NOTES (continued)

Sampled @ 0930

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 1/23/24 Time: 1115
Field Personnel: AB/LF Finish Date: 1/23/24 Time: 1200

WELL INFORMATION

Well ID: HEN-34
Transducer Serial #: 21615509

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	[illegible]	1123		4.05		3%	+.1	3%	10%	10%	+10	clear
5	purge	1125		4.05		10.0	7.10	1256	0.27	13.47	-110.8	" "
10		1130		405		10.2	7.09	1280	-0.11	11.27	-129.2	" "
15		1135	1	4.05		10.4	7.09	1293	-0.22	17.18	-138.2	" "
20		1140		4.05		10.4	7.09	1303	-0.27	12.17	-145.0	" "
25		1145		4.05		10.4	7.09	1303	-0.28	11.09	-146.2	" "
30		1150	2	4.05		10.5	7.09	1304	-0.27	12.45	-148.3	" "
35												
40												
45												
50												
55												
60												
65												

NOTES (continued)

Sampled @ 1150

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: 2024.0054 Task #: Start Date: 1/23/24 Time: ~~1055~~ 1305

Field Personnel: AB/LF Finish Date: 1/23/24 Time: 1357

WELL INFORMATION

Well ID: HEN-35

Transducer Serial #: 21015510

EVENT TYPE

Well Development

Well Volume Approach Sampling

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	[illegible]	1310	0	7.90		3%	+.1	3%	10%	10%	+10	Brown/oxid 2nd
5	PURGE	1315		7.90		11.3	7.13	796 → [illegible]	0.54	39.42	40.8	" "
10		1320		7.91		11.3	7.11	806	0.08	13.75	36.1	" "
15		1325	1	7.92		11.4	7.11	818	-0.06	10.71	33.1	" "
20		1330		7.91		11.4	7.10	839	-0.13	7.49	30.7	" "
25		1335		7.90		11.4	7.10	842	-0.15	5.91	29.5	Cloudy "
30		1340	2.5	7.90		11.5	7.10	856	-0.17	5.82	28.5	" "

NOTES (continued)

Sampled @ 1340

dupe

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 1/25/24 Time: 1330
Field Personnel: AB/LF Finish Date: 1/25/24 Time: 1430

WELL INFORMATION

Well ID: HEN-40#S
Transducer Serial #: N/A

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	1338	0	40.36		3%	+.1	3%	10%	10%	+10	clear
5	purge	1342		40.36		13.1	8.03	777	8.33	3.86	122.5	"
10		1347		40.36		14.6	7.96	782	0.24	1.40	93.7	"
15		1352	1	40.36		15.0	7.96	784	0.24	1.28	93.5	"
20		1357		40.36		15.0	7.94	785	0.16	0.87	87.3	"
25		1402		40.36		14.9	7.94	784	0.09	0.20	81.6	"
30		1407		40.36		14.9	7.94	784	0.08	0.48	78.3	"
35		1412	2.5	40.36		15.0	7.94	784	0.09	0.91	74.4	"

NOTES (continued)

Sampled @ 1415

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

Sulf. acid
Nit. acid
Soa. Hyd.

11 bottles

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: Task #: 2024.2054 Start Date: 1/25/24 Time: 1105

Field Personnel: AB/LF Finish Date: 1/25/24 Time: 1205

WELL INFORMATION

Well ID: HEN-4S#5

Transducer Serial #: N/A

EVENT TYPE

Well Development

Well Volume Approach Sampling

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	1110	0	20.12		3%	+.1	3%	10%	10%	+10	cloudy
5	purge	1120	0.5	20.12		18.0	7.36	981	0.58	124.15	14.1	" "
10		1125		20.12		17.4	7.23	977	0.16	97.25	8.5	" "
15		1130		20.12		17.6	7.20	976	0.02	51.25	2.4	" "
20		1135		20.12		17.7	7.20	976	0.02	38.93	1.6	" "
25		1140		20.12		17.7	7.19	977	0.02	38.92	0.1	" "
30		1145				17.8	7.19	976	0.01	34.2	-0.1	" "

NOTES (continued)

Sampled @ 1145

15 bottles

unp.
hyd. acid
Sulf. acid
nitric acid
Sod. Hyd

Sheen on water in bucket

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.0054 Start Date: 1/24/24 Time: 1225
Field Personnel: AB/LF Finish Date: 1/24/24 Time: 1310

WELL INFORMATION

Well ID: Hen-16
Transducer Serial #: 21015491

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Per	1225		51.61		3%	+.1	3%	10%	10%	+10	clear
Purge	1225		51.61		14.2	7.35	846	2.45	1.33	136.7	
	1230		51.61		13.6	7.36	842	2.41	1.19	135.0	
	1235		51.61		14.5	7.36	849	2.37	1.06	131.4	
	1240		51.61		14.4	7.35	848	2.35	.79	129.9	
	1245		51.61		14.5	7.35	849	2.33	.90	128.3	
	1250		51.61		14.7	7.35	847	2.31	.77	127.1	
	1255		51.61		14.4	7.35	847	2.29	.70	124.5	
	1300		51.61		14.6	7.35	847	2.28	.75	122.5	
	1305		51.61		14.6	7.35	848	2.26	.72	120.0	
	1310	4Gal	51.61		14.6	7.35	848	2.27	.70	118.5	

NOTES (continued)

Sample @ 1310

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: [redacted] Task #: 2024-0054
Start Date: 1-24-25 Time: 1355
Field Personnel: AB/LF
Finish Date: 1/24/25 Time: 1430

WELL INFORMATION

Well ID: HEN_47
Transducer Serial #: 21615505

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1355	0	57.82		3%	+.1	3%	10%	10%	+10	Clear
Purge	1355		57.82		16.4	7.13	957	2.57	2.21	146.3	
	1400		57.82		16.4	7.12	957	2.61	1.14	141.6	
	1405		57.82		16.7	7.11	958	2.61	.64	136.4	
	1410		57.82		16.8	7.11	959	2.61	.94	134.9	
	1415		57.82		16.6	7.11	959	2.57	.54	130.6	
	1420		57.82		17.0	7.11	960	2.56	.53	128.3	
	1425		57.82		16.7	7.11	960	2.57	.50	126.9	
	1430	4 GAL	57.82		16.7	7.11	959	2.55	.48	127.9	

NOTES (continued)

Sample at 1430

6 Bottles

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 1/23/24 Time: 1520
Field Personnel: AB/LF Finish Date: 1/23/24 Time: 1640

WELL INFORMATION

Well ID: HEN_49
Transducer Serial #: 21629307

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

4.22

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	1530	0	21.25		3%	+.1	3%	10%	10%	+10	clear
5	purge	1533		21.25		12.6	7.33	1028		73.75	40.0	"
10		1538	0.25	21.25		9.8	7.21	1004	2.128	109.00	40.2	"
15		1543		21.25		8.87	7.20	1057	1.104	86.14	46.10	"
20		1548		21.25		9.1	7.18	1032	1.88	110.27	51.8	"
25		1553		21.25		12.9	7.16	1055	0.63	73.88	48.6	"
30		1558	1.5	21.25		13.1	7.16	1053	0.19	72.81	46.3	cloudy
35		1603		21.25		13.1	7.16	1052		109.98	45.3	"
40		1608	2	21.25		13.0	7.16	1054	0.16	80.62	44.3	"

0.17

NOTES (continued)

Sampled @ 1610

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024-2054 Task #: Start Date: 1/23/24 Time: 1540
Field Personnel: AB/LF Finish Date: 1/23/24 Time: 1630

WELL INFORMATION

Well ID: HEN-50
Transducer Serial #: 21015489

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1540		17.57		3%	+.1	3%	10%	10%	+10	Clear
Purge	1545		17.57		14.3	7.68	840	1.78	73.20	46.0	
	1550		17.52		13.7	7.60	895	1.42	83.70	50.1	
	1555		17.52		13.6	7.60	901	1.56	73.80	~~52.5~~ 52.6	
	1600		17.52		13.7	7.60	910	1.48	69.23	54.7	
	1605		17.52		13.7	759	910	1.32	69.04	56.3	
	1610	3.5GAL	17.52		13.7	759	910	1.32	67.40	57.5	

NOTES (continued)

Sample At 1610

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
na -

Posible Diaphram Problem, A Lot of Air Bubbles in Water Line.

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024 0054 Last #: Start Date: 1.24.24 Time: 820
Field Personnel: AB/LF Finish Date: 1/24/24 Time: ~~0820~~ 900

WELL INFORMATION

Well ID: HEN-61
Transducer Serial #: 21615608

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	820		17.81		3%	+.1	3%	10%	10%	+10	Cloudy
Purge	820		17.81		9.5	7.36	1087	2.15	41.66	-106.7	
	825		17.95		9.7	7.37	1091	1.37	41.69	-128.6	
	830		17.95		9.9	7.40	1094	.39	110.07	-156.8	
	835		17.95		10.1	7.41	1094	.17	133.17	-165.0	
	840		17.95		10.0	7.42	1094	.04	135.14	-171.2	
	845		17.95		9.9	7.42	1094	-.01	125.61	-174.0	
	850		17.95		9.8	7.43	1093	-.06	111.37	-176.4	
	855		17.95		9.8	7.43	1093	-.06	110.73	-177.0	
	900		17.95	3GAL	9.9	7.42	1094	-.06	109.77	-178.2	

NOTES (continued)

Sample at 900 8 bottles

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024-0054 Task #: Start Date: 1/24/24 Time: 1000
Field Personnel: AB/LF Finish Date: 1/24/24 Time: 1025

WELL INFORMATION

Well ID: Hen-52
Transducer Serial #: 21615145

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
Pre	1000		53.95		3%	+.1	3%	10%	10%	+10	Clear
Purge	10.00		53.95		13.4	7.17	962	4.60	15.12	92.9	
	1005		53.95		13.9	7.16	966	3.61	5.08	90.1	
	1010		53.95		13.9	7.16	966	3.61	3.75	89.8	
	1015		53.95		13.9	7.16	966	3.62	2.44	89.3	
	1020		53.95		13.9	7.15	966	3.60	2.01	89.7	
	1025		53.95		13.9	7.15	966	3.60	1.97	89.8	

NOTES (continued)

Sampleing at 1025
6 Bottles no Filter Samples

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: 2024.0054 Start Date: 1/24/24 Time: 1315
Field Personnel: AB/LF Finish Date: 1/24/24 Time: 1411

WELL INFORMATION

Well ID: HEN-54
Transducer Serial #: 21615143

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	1324	0	53.21		3%	+.1	3%	10%	10%	+10	clear
5	purge	~~1330~~ 1330		53.20		13.4	7.53	814	6.78	5.12	75.3	"
10		1335		53.20		14.1	7.36	869	2.22	7.19	58.7	"
15		1340		53.21		14.2	7.36	869	1.94	7.43	53.3	"
20		1345		53.20		14.3	7.36	870	1.84	6.59	48.7	"
25		1350		53.20		14.4	7.35	871	1.68	5.55	44.3	"
30		1355		53.20		14.4	7.35	873	1.65	4.28	39.8	"

NOTES (continued)

Sampled @ 1357 dupe!

(12 bottles (inc. dupe)

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: Task #: 2024.0054 Start Date: 1/25/24 Time: 0750

Field Personnel: AB/LF Finish Date: 1/25/24 Time: 0900

WELL INFORMATION

Well ID: HEN-XPW01-pore

Transducer Serial #: N/A

EVENT TYPE

Well Development

Well Volume Approach Sampling

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	PVR	0752		10.50		3%	+.1	3%	10%	10%	+10	clear
5	purge	0755		10.51		14.6	11.44	1080	0.53	5.75	-146.1	" "
10		0800	0.50	10.50		13.9	11.47	1081	0.10	4.36	-177.9	" "
15		0805		10.51		14.2	11.40	1082	-0.05	11.33	-213.4	" "
20		0810	1.25	10.52		14.1	11.47	1085	-0.07	12.11	-221.5	" "
25		0815		10.52		14.0	11.47	1090	[illegible]	7.68	-229.2	" "
30		0820	2.0	10.52		14.1	11.47	1093	0.01	9.04	-233.5	" "
35		0925		10.52		14.2	11.47	1097	-0.07	12.40	-237.8	" "
40		0830	2.5	10.51		14.3	11.48	1104	-0.17	18.99	-251.5	" "
45		0835		10.52		13.9	11.49	1109	-0.18	11.22	-253.7	" "
50		0940		10.52		14.4	11.48	1116	-0.18	12.20	-257.5	" "
55		0845	3.0	10.52		14.4	11.48	1113	-0.18	11.89	-259.9	" "
60		~~0850~~										
65		~~0855~~										

6.08

NOTES (continued)

Sampled @ 0845

*Water smelled like sulfur & had a sheen

10 bottles

no dedicated bladder

*Used peristaltic pump

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: Task #: 2024.0054 Start Date: 1/25/24 Time: 0900

Field Personnel: AB/LF Finish Date: 1/25/24 Time: 0940

WELL INFORMATION

Well ID: HEN_XRW02_POOL

Transducer Serial #: N/A

EVENT TYPE

Well Development

Well Volume Approach Sampling

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	PRE	0902	0	14.27		3%	+.1	3%	10%	10%	+10	clear
5	PURGE	0905		14.27		13.9	12.14	3720	1.15	35.09	-156.6	" "
10		0910		14.42		14.1	12.20	3723	0.56	23.24	-158.6	" "
15		0915	1	14.46		13.9	12.24	3734	0.20	25.06	-159.4	" "
20		0920		14.51		13.8	12.25	3751	0.11	23.19	-160.3	" "
25		0925		14.52		13.9	12.25	3770	0.10	20.91	-161.5	" "
30		0930	1.5	14.53		13.9	12.25	3777	0.09	21.01	-161.9	" "
35		~~0935~~										

NOTES (continued)

Sample d @ 0930

ABBREVIATIONS

Cond. - Actual Conductivity; ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance

FT BTOC - Feet Below Top of Casing n/a - SU - Standard Units

4 bottles

*NO dedicated bladder

used peristaltic pump

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: Task #: 2024.0054 Start Date: 1/25/24 Time: 0958

Field Personnel: AB/LF Finish Date: 1/25/24 Time: 1100

WELL INFORMATION

Well ID: HEN-XPW03_pore

Transducer Serial #: N/A

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

	Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
0	pre	0954	0	6.10		3%	+.1	3%	10%	10%	+10	clear
5	purge	0956		6.27		11.3	11.95	1638	2.48	3.49	-52.1	" "
10		1001		6.24		11.5	11.91	1597	0.97	1.31	-64.5	" "
15		1006	1	6.25		11.5	11.92	1597	0.38	1.21	-74.9	" "
20		1011		6.25		11.5	11.92	1594	0.20	1.16	-78.1	" "
25		1016		6.25		11.4	11.93	1598	0.09	1.59	-82.3	" "
30		1021		6.25		11.3	11.93	1598	0.09	1.13	-84.4	" "
35		1026	2.5	6.25		11.4	11.93	1598	0.08	1.00	-85.7	" "

NOTES (continued)

Sampled @ 1030

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
na - Conductance
SEC - Specific Electrical
SU - Standard Units

*No dedicated bladder
used peristaltic

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: HEN
Event: HEN-24Q1 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
02	HEN_02	1/22/24	1222	44.93	DTB: 51.13	AB
04R	HEN_04R	1/22/24	1112	39.39	DTB: 45.43	AB
05DR	HEN_05&DR	1/22/24	1145	41.26	DTB: 71.29	AB
05R	HEN_05!R	1/22/24	1147	4.17	DTB: 48.79	AB
06	HEN_06	1/22/24	1002	22.54	DTB: 33.8	AB
10	HEN_10	1/22/24	1023	50.72	DTB: 51.45	AB
11	HEN_11	1/22/24	1025	50.95	DTB: 69.5	AB
15	HEN_15	1/22/24	1107	49.73	DTB: 52.81	AB
19D	HEN_19&D	1/22/24	1125	40.03	DTB: 65.44	AB
19S	HEN_19#S	1/22/24	1126	40.17	DTB: 42.57	AB
25	HEN_25	1/22/24	1527	15.62	DTB: 18.17	AB
26	HEN_26	1/22/24	1529	15.67	DTB: 27.32	AB
30	HEN_30	1/22/24	1544	6.25	DTB: 21.30	AB
31	HEN_31	1/22/24	1543	6.17	10.03: DTB	AB
33	HEN_33	1/22/24	1606	3.71	DTB: 38.16	AB
36	HEN_36	1/22/24	1430	15.70	DTB: 28.85	AB
40S	HEN_40#S	1/22/24	1133	40.49	DTB: 42.37	AB
45S	HEN_45#S	1/22/24	1015	20.24	DTB: 38.52	AB
48	HEN_48	1/22/24	1137	39.57	DTB: 45.13	AB
XPW01	HEN_XPW01_pore	1/22/24	1340	10.51	DTB: 19.73	AB
XPW02	HEN_XPW02_pore	1/22/24	1350	14.63	DTB: 21.73	AB
XPW03	HEN_XPW03_pore	1/22/24	1330	6.58	DTB: 22.04	AB
SG02	HEN_YSG_ILRIVER	1/22/24	1420	22.07	from higher elev. on bridge	AB
53	HEN_53	1/22/24	1345	55.67	U: 12/19/23 JRK DTB: 66.72	AB

~~go as we sample~~

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
~~All DTWs on SAR-4 form may be collected at anytime during the sampling event.~~ 24 hours!!
Plant: HEN
Event: HEN-24Q1 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
					Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)		
03R	HEN_03R	1/22/24	1212	34.96	21615140	Y	447.38	Y	H	DTB: 46.93	AB
07	HEN_07	1/23/24	0720	68.78	21615139	Y	449.61	Y	H	DTB: 72.27	AB
08	HEN_08	1/22/24	1245	53.82	21615138	Y	447.54	Y	H	DTB: [redacted]	AB
08D	HEN_08&D	1/22/24	1250	54.2	21615598	Y	447.21	Y	H	DTB: 84.13	AB
12	HEN_12	1/22/24	1052	51.34	21615520	Y	447.44	Y	H	DTB: 51.35	AB
13	HEN_13	1/22/24	1049	51.36	21615515	Y	447.44	Y	H	DTB: 61.91	AB
16	HEN_16	1/22/24	1315	54.38	21615534	Y	447.15	Y	H	DTB: 60.82	AB
17	HEN_17	1/22/24	1320	58.98	21615500	Y	448.39	Y	H	DTB: 61.79	AB
18D	HEN_18&D	1/22/24	1154	40.57	21615609	Y	447.41	Y	H	DTB: 72.47	AB
18S	HEN_18#S	1/22/24	1156	40.42	21615482	Y	447.38	Y	H	DTB: 42.87	AB
21R	HEN_21R	1/22/24	1440	15.48	21615613	Y	446.92	Y	H	DTB: 45.03	AB
22	HEN_22	1/22/24	1505	17.95	21615497	Y	446.82	Y	H	DTB: 27.35	AB
22D	HEN_22&D	1/22/24	1502	18.79	21564134	Y	446.92	Y	H	DTB: 53.45	AB
23	HEN_23	1/22/24	1450	16.68	21615600	Y	447.08	Y	H	DTB: 35.34	AB
27	HEN_27	1/22/24	1415	3.82	21615576	Y	446.98	Y	H	DTB: 29.95	AB
32	HEN_32	1/22/24	1550	4.64	21615487	Y	447.08	Y	H	DTB: 13.25	AB
34	HEN_34	1/22/24	1633	4.09	21615509	Y	445.9	Y	H	DTB: 30.23	AB
35	HEN_35	1/22/24	1535	7.97	21615510	Y	447.05	Y	H	DTB: 16.08	AB
46	HEN_46	1/22/24	1100	51.58	21615491	Y	446.75	Y	H	DTB: 59.37	AB
47	HEN_47	1/22/24	1030	55.84	21615505	Y	[redacted]	Y	H	DTB: 57.61	AB
49	HEN_49	1/22/24	1455	21.33	21629307	Y	447.08	Y	H	DTB: 38.59	AB
50	HEN_50	1/22/24	1410	17.54	21615489	Y	446.69	Y		DTB: 22.94	AB
51	HEN_51	1/22/24	1440	18.04	21615608	Y	447.08	Y	H	DTB: 58.25	AB
52	HEN_52	1/22/24	1228	53.98	21615145	Y	447.24	Y	H	DTB: 61.21	AB
54	HEN_54	1/22/24	1039	53.92	21615143	Y	447.18	Y	H	DTB: 68.29	AB
55	HEN_55	1/22/24	1045	51.55	21615612	Y	447.24	Y	H	DTB: 93.11	AB
XSG01	HEN_XSG01	1/22/24	1355	10.1	21768087	Y	483.63	Y	H	NO DTB	AB
SG02	HEN_YSG_ILRIVER	1/22/24	1420	22.07	21768088	Y	11.25	Y	H	NO DTB	AB

U: 12/19/23 JRK

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 02/22/24 15:37:07

JOB DESCRIPTION

HEN-24Q1
HEN_000_RAD

JOB NUMBER

500-245277-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

Eurofins Chicago

Job Notes

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Case Narrative

Client: Vistra Energy Corp
Project: HEN-24Q1

Job ID: 500-245277-2

Job ID: 500-245277-2 — Eurofins Chicago

Job Narrative
500-245277-2

Receipt
The samples were received on 01/24/24 12:20. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 12 coolers at receipt time were 2.1º C, 2.3º C, 2.6º C, 2.7º C, 3.2º C, 3.3º C, 3.9º C, 4.1º C, 4.4º C, 4.4º C, 5.1º C and 5.2º C.

RAD
Method 904.0: Radium-228 prep batch 160-645980:
The following samples have an RER (replicate error ratio) result outside of the acceptance criteria of 1 for 1.20. Duplicate precision is demonstrated by acceptable relative percent difference (RPD), within the limit of 40%. The data have been reported with this narrative. HEN_49_MSD (500-245277-9[MSD])

Method 904.0: Radium-228 prep batch 160-645980:
The following samples did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. HEN_21R (500-245277-1), HEN_49 (500-245277-9) and HEN_49_MS (500-245277-9[MS])

Method 904.0: Radium-228 prep batch 160-645980:
The matrix spike (MS) recoveries for preparation batch 160-645980 and analytical batch 160-647494 were 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.

Method 904.0: Radium-228 prep batch 160-646071:
The following samples did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative. HEN_XPW01_PORE (500-245277-36)

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

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R — Lab Sample ID: 500-245277-1

No Detections.

Client Sample ID: HEN_22 — Lab Sample ID: 500-245277-2

No Detections.

Client Sample ID: HEN_22&D — Lab Sample ID: 500-245277-3

No Detections.

Client Sample ID: HEN_27 — Lab Sample ID: 500-245277-4

No Detections.

Client Sample ID: HEN_32 — Lab Sample ID: 500-245277-5

No Detections.

Client Sample ID: HEN_34 — Lab Sample ID: 500-245277-6

No Detections.

Client Sample ID: HEN_35 — Lab Sample ID: 500-245277-7

No Detections.

Client Sample ID: HEN_35_FD — Lab Sample ID: 500-245277-8

No Detections.

Client Sample ID: HEN_49 — Lab Sample ID: 500-245277-9

No Detections.

Client Sample ID: HEN_50 — Lab Sample ID: 500-245277-10

No Detections.

Client Sample ID: HEN_12 — Lab Sample ID: 500-245277-13

No Detections.

Client Sample ID: HEN_13 — Lab Sample ID: 500-245277-14

No Detections.

Client Sample ID: HEN_16 — Lab Sample ID: 500-245277-15

No Detections.

Client Sample ID: HEN_16_FD — Lab Sample ID: 500-245277-16

No Detections.

Client Sample ID: HEN_17 — Lab Sample ID: 500-245277-17

No Detections.

Client Sample ID: HEN_23 — Lab Sample ID: 500-245277-18

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46 — Lab Sample ID: 500-245277-19

No Detections.

Client Sample ID: HEN_47 — Lab Sample ID: 500-245277-20

No Detections.

Client Sample ID: HEN_51 — Lab Sample ID: 500-245277-21

No Detections.

Client Sample ID: HEN_52 — Lab Sample ID: 500-245277-22

No Detections.

Client Sample ID: HEN_54 — Lab Sample ID: 500-245277-23

No Detections.

Client Sample ID: HEN_54_FD — Lab Sample ID: 500-245277-24

No Detections.

Client Sample ID: HEN_FB — Lab Sample ID: 500-245277-25

No Detections.

Client Sample ID: HEN_03R — Lab Sample ID: 500-245277-26

No Detections.

Client Sample ID: HEN_03R_FD — Lab Sample ID: 500-245277-27

No Detections.

Client Sample ID: HEN_08&D — Lab Sample ID: 500-245277-30

No Detections.

Client Sample ID: HEN_18#S — Lab Sample ID: 500-245277-32

No Detections.

Client Sample ID: HEN_18&D — Lab Sample ID: 500-245277-33

No Detections.

Client Sample ID: HEN_45#S — Lab Sample ID: 500-245277-35

No Detections.

Client Sample ID: HEN_XPW01_PORE — Lab Sample ID: 500-245277-36

No Detections.

Client Sample ID: HEN_XPW02_PORE — Lab Sample ID: 500-245277-37

No Detections.

Client Sample ID: HEN_XPW03_PORE — Lab Sample ID: 500-245277-38

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_07 — Lab Sample ID: 500-245277-39

No Detections.

Client Sample ID: HEN_08 — Lab Sample ID: 500-245277-40

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 590-245277-2
SDG: HEN_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: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-245277-1	HEN_21R	Water	01/23/24 12:40	01/24/24 12:20
500-245277-2	HEN_22	Water	01/23/24 15:20	01/24/24 12:20
500-245277-3	HEN_22&D	Water	01/23/24 15:00	01/24/24 12:20
500-245277-4	HEN_27	Water	01/23/24 10:45	01/24/24 12:20
500-245277-5	HEN_32	Water	01/23/24 09:30	01/24/24 12:20
500-245277-6	HEN_34	Water	01/23/24 11:50	01/24/24 12:20
500-245277-7	HEN_35	Water	01/23/24 13:40	01/24/24 12:20
500-245277-8	HEN_35_FD	Water	01/23/24 13:40	01/24/24 12:20
500-245277-9	HEN_49	Water	01/23/24 16:10	01/24/24 12:20
500-245277-10	HEN_50	Water	01/23/24 16:10	01/24/24 12:20
500-245277-13	HEN_12	Water	01/24/24 11:55	01/25/24 11:51
500-245277-14	HEN_13	Water	01/24/24 12:41	01/25/24 11:51
500-245277-15	HEN_16	Water	01/24/24 10:55	01/25/24 11:51
500-245277-16	HEN_16_FD	Water	01/24/24 10:55	01/25/24 11:51
500-245277-17	HEN_17	Water	01/24/24 11:55	01/25/24 11:51
500-245277-18	HEN_23	Water	01/24/24 08:35	01/25/24 11:51
500-245277-19	HEN_46	Water	01/24/24 13:10	01/25/24 11:51
500-245277-20	HEN_47	Water	01/24/24 14:30	01/25/24 11:51
500-245277-21	HEN_51	Water	01/24/24 09:00	01/25/24 11:51
500-245277-22	HEN_52	Water	01/24/24 10:25	01/25/24 11:51
500-245277-23	HEN_54	Water	01/24/24 13:57	01/25/24 11:51
500-245277-24	HEN_54_FD	Water	01/24/24 13:57	01/25/24 11:51
500-245277-25	HEN_FB	Water	01/24/24 16:10	01/25/24 11:51
500-245277-26	HEN_03R	Water	01/25/24 12:15	01/26/24 11:45
500-245277-27	HEN_03R_FD	Water	01/25/24 12:15	01/26/24 11:45
500-245277-30	HEN_08&D	Water	01/25/24 13:05	01/26/24 11:45
500-245277-32	HEN_18#S	Water	01/25/24 13:30	01/26/24 11:45
500-245277-33	HEN_18&D	Water	01/25/24 14:40	01/26/24 11:45
500-245277-35	HEN_45#S	Water	01/25/24 11:45	01/26/24 11:45
500-245277-36	HEN_XPW01_PORE	Water	01/25/24 08:45	01/26/24 11:45
500-245277-37	HEN_XPW02_PORE	Water	01/25/24 09:30	01/26/24 11:45
500-245277-38	HEN_XPW03_PORE	Water	01/25/24 10:30	01/26/24 11:45
500-245277-39	HEN_07	Water	01/26/24 08:50	01/26/24 11:45
500-245277-40	HEN_08	Water	01/26/24 08:20	01/26/24 11:45

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R

Date Collected: 01/23/24 12:40
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.989**		0.317	0.329	1.00	0.310	pCi/L	01/29/24 09:16	02/20/24 07:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*61.8*		*30 - 110*	*01/29/24 09:16*	*02/20/24 07:30*	*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	-0.277	U F G	0.843	0.843	1.00	1.66	pCi/L	01/29/24 09:19	02/09/24 12:14	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*61.8*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:14*	*1*
Y Carrier	*84.1*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:14*	*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	0.989	U	0.901	0.905	5.00	1.66	pCi/L		02/21/24 16:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22

Date Collected: 01/23/24 15:20
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.124		0.0805	0.0813	1.00	0.112	pCi/L	01/29/24 09:16	02/20/24 07:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*01/29/24 09:16*	*02/20/24 07:23*	*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	0.458	U F	0.411	0.413	1.00	0.654	pCi/L	01/29/24 09:19	02/09/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:15*	*1*
Y Carrier	*82.2*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:15*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.582	U	0.419	0.421	5.00	0.654	pCi/L		02/21/24 16:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22&D

Date Collected: 01/23/24 15:00
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-3

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.827**		0.170	0.185	1.00	0.116	pCi/L	01/29/24 09:16	02/20/24 09:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.7*		*30 - 110*	*01/29/24 09:16*	*02/20/24 09:23*	*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	0.608	U F	0.422	0.425	1.00	0.629	pCi/L	01/29/24 09:19	02/09/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.7*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:15*	*1*
Y Carrier	*76.6*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:15*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.44**		0.455	0.464	5.00	0.629	pCi/L		02/21/24 16:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_27
Date Collected: 01/23/24 10:45
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.138	U	0.115	0.116	1.00	0.174	pCi/L	01/29/24 09:16	02/20/24 09:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.4*		*30 - 110*	*01/29/24 09:16*	*02/20/24 09:23*	*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	-0.374	U F	0.459	0.460	1.00	0.965	pCi/L	01/29/24 09:19	02/09/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.4*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:15*	*1*
Y Carrier	*78.5*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:15*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.138	U	0.473	0.474	5.00	0.965	pCi/L		02/21/24 16:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_32
Date Collected: 01/23/24 09:30
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-5
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0920	U	0.109	0.109	1.00	0.179	pCi/L	01/29/24 09:16	02/20/24 09:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.2*		*30 - 110*	*01/29/24 09:16*	*02/20/24 09:23*	*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	0.461	U F	0.537	0.539	1.00	0.883	pCi/L	01/29/24 09:19	02/09/24 12:15	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.2*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:15*	*1*
Y Carrier	*76.3*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:15*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.553	U	0.548	0.550	5.00	0.883	pCi/L		02/21/24 16:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_34
Date Collected: 01/23/24 11:50
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-6
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.464**		0.164	0.169	1.00	0.173	pCi/L	01/29/24 09:16	02/20/24 09:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.9*		*30 - 110*	*01/29/24 09:16*	*02/20/24 09:23*	*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	0.639	U F	0.561	0.564	1.00	0.883	pCi/L	01/29/24 09:19	02/09/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.9*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:16*	*1*
Y Carrier	*79.6*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**1.10**		0.584	0.589	5.00	0.883	pCi/L		02/21/24 16:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35
Date Collected: 01/23/24 13:40
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-7
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0645	U	0.0696	0.0699	1.00	0.110	pCi/L	01/29/24 09:16	02/20/24 09:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.0*		*30 - 110*	*01/29/24 09:16*	*02/20/24 09:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.397	U F	0.451	0.453	1.00	0.738	pCi/L	01/29/24 09:19	02/09/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*73.0*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:16*	*1*
Y Carrier	*71.0*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.461	U	0.456	0.458	5.00	0.738	pCi/L		02/21/24 16:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35_FD

Date Collected: 01/23/24 13:40
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-8

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0863	U	0.0740	0.0744	1.00	0.110	pCi/L	01/29/24 09:16	02/20/24 09:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.7*		*30 - 110*	*01/29/24 09:16*	*02/20/24 09:23*	*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	0.298	U F	0.363	0.364	1.00	0.601	pCi/L	01/29/24 09:19	02/09/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.7*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:16*	*1*
Y Carrier	*78.9*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.384	U	0.370	0.372	5.00	0.601	pCi/L		02/21/24 16:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_49
Date Collected: 01/23/24 16:10
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-9
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.352**		0.168	0.171	1.00	0.191	pCi/L	01/29/24 09:16	02/20/24 09:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*55.0*		*30 - 110*	*01/29/24 09:16*	*02/20/24 09:23*	*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	0.595	U G F	0.693	0.696	1.00	1.14	pCi/L	01/29/24 09:19	02/09/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*55.0*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:17*	*1*
Y Carrier	*80.0*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:17*	*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	0.947	U	0.713	0.717	5.00	1.14	pCi/L		02/21/24 16:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_50

Date Collected: 01/23/24 16:10
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-10

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.426**		0.124	0.130	1.00	0.105	pCi/L	01/29/24 09:16	02/20/24 09:23	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.2*		*30 - 110*	*01/29/24 09:16*	*02/20/24 09:23*	*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	0.348	U F	0.442	0.443	1.00	0.734	pCi/L	01/29/24 09:19	02/09/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.2*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:26*	*1*
Y Carrier	*75.1*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:26*	*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	**0.774**		0.459	0.462	5.00	0.734	pCi/L		02/21/24 16:16	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_12

Date Collected: 01/24/24 11:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-13

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0457	U	0.0554	0.0555	1.00	0.0908	pCi/L	01/29/24 09:04	02/20/24 09:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.2*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:20*	*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	0.268	U	0.282	0.284	1.00	0.457	pCi/L	01/29/24 09:08	02/07/24 11:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.2*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:32*	*1*
Y Carrier	*81.5*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	0.313	U	0.287	0.289	5.00	0.457	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_13

Date Collected: 01/24/24 12:41
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-14

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.104		0.0697	0.0703	1.00	0.0944	pCi/L	01/29/24 09:04	02/20/24 09:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:20*	*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	0.574		0.358	0.362	1.00	0.529	pCi/L	01/29/24 09:08	02/07/24 11:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:32*	*1*
Y Carrier	*84.9*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	0.678		0.365	0.369	5.00	0.529	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16

Date Collected: 01/24/24 10:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-15

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0833	U	0.0633	0.0638	1.00	0.0898	pCi/L	01/29/24 09:04	02/20/24 09:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.9*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:20*	*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	0.114	U	0.256	0.256	1.00	0.449	pCi/L	01/29/24 09:08	02/07/24 11:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.9*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:32*	*1*
Y Carrier	*86.7*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	0.198	U	0.264	0.264	5.00	0.449	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16_FD

Date Collected: 01/24/24 10:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-16

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.0787**		0.0575	0.0580	1.00	0.0773	pCi/L	01/29/24 09:04	02/20/24 09:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.9*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:21*	*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	0.188	U	0.258	0.258	1.00	0.433	pCi/L	01/29/24 09:08	02/07/24 11:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.9*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:31*	*1*
Y Carrier	*85.2*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	0.266	U	0.264	0.264	5.00	0.433	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_17

Date Collected: 01/24/24 11:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-17

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.132**		0.0702	0.0712	1.00	0.0794	pCi/L	01/29/24 09:04	02/20/24 09:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:21*	*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	0.412	U	0.308	0.310	1.00	0.468	pCi/L	01/29/24 09:08	02/07/24 11:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:31*	*1*
Y Carrier	*84.5*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	**0.544**		0.316	0.318	5.00	0.468	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_23

Date Collected: 01/24/24 08:35
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-18

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0602	U	0.0554	0.0556	1.00	0.0815	pCi/L	01/29/24 09:04	02/20/24 09:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.2*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:22*	*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	-0.0436	U	0.286	0.286	1.00	0.547	pCi/L	01/29/24 09:08	02/07/24 11:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.2*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:31*	*1*
Y Carrier	*87.1*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	0.0602	U	0.291	0.291	5.00	0.547	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46

Date Collected: 01/24/24 13:10
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-19

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.151**		0.0719	0.0732	1.00	0.0751	pCi/L	01/29/24 09:04	02/20/24 09:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.4*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:22*	*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	0.469	U	0.367	0.370	1.00	0.572	pCi/L	01/29/24 09:08	02/07/24 11:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.4*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:31*	*1*
Y Carrier	*81.1*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	**0.620**		0.374	0.377	5.00	0.572	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_47
Date Collected: 01/24/24 14:30
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-20
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0710	U	0.0615	0.0618	1.00	0.0920	pCi/L	01/29/24 09:04	02/20/24 09:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:22*	*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	0.268	U	0.262	0.263	1.00	0.419	pCi/L	01/29/24 09:08	02/07/24 11:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:31*	*1*
Y Carrier	*85.6*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	0.339	U	0.269	0.270	5.00	0.419	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_51
Date Collected: 01/24/24 09:00
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-21
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**1.06**		0.260	0.277	1.00	0.175	pCi/L	01/29/24 09:04	02/20/24 09:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:22*	*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	0.871	U	0.640	0.645	1.00	0.962	pCi/L	01/29/24 09:08	02/07/24 11:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:31*	*1*
Y Carrier	*81.1*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	**1.93**		0.691	0.702	5.00	0.962	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_52

Date Collected: 01/24/24 10:25
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-22

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.106**		0.0746	0.0752	1.00	0.104	pCi/L	01/29/24 09:04	02/20/24 09:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.2*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:32*	*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	0.272	U	0.273	0.274	1.00	0.438	pCi/L	01/29/24 09:08	02/07/24 11:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.2*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:31*	*1*
Y Carrier	*85.2*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	0.378	U	0.283	0.284	5.00	0.438	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54

Date Collected: 01/24/24 13:57
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-23

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.0984**		0.0664	0.0670	1.00	0.0903	pCi/L	01/29/24 09:04	02/20/24 09:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:32*	*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	0.280	U	0.322	0.323	1.00	0.528	pCi/L	01/29/24 09:08	02/07/24 11:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:31*	*1*
Y Carrier	*75.9*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	0.379	U	0.329	0.330	5.00	0.528	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54_FD

Date Collected: 01/24/24 13:57
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-24

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0507	U	0.0696	0.0697	1.00	0.117	pCi/L	01/29/24 09:04	02/20/24 09:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:32*	*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	0.430	U	0.356	0.358	1.00	0.554	pCi/L	01/29/24 09:08	02/07/24 11:31	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:31*	*1*
Y Carrier	*80.4*		*30 - 110*	*01/29/24 09:08*	*02/07/24 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	0.480	U	0.363	0.365	5.00	0.554	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_FB
Date Collected: 01/24/24 16:10
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-25
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0193	U	0.0668	0.0668	1.00	0.137	pCi/L	01/29/24 09:04	02/20/24 09:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:32*	*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	**0.562**		0.330	0.334	1.00	0.474	pCi/L	01/29/24 09:08	02/07/24 11:30	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:30*	*1*
Y Carrier	*84.9*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:30*	*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	**0.562**		0.337	0.341	5.00	0.474	pCi/L		02/21/24 16:02	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R

Date Collected: 01/25/24 12:15
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-26

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.154**		0.0965	0.0975	1.00	0.134	pCi/L	01/30/24 10:07	02/21/24 09:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.4*		*30 - 110*	*01/30/24 10:07*	*02/21/24 09:37*	*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	0.165	U	0.274	0.274	1.00	0.468	pCi/L	01/30/24 10:19	02/12/24 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.4*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:10*	*1*
Y Carrier	*87.5*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:10*	*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	0.319	U	0.290	0.291	5.00	0.468	pCi/L		02/22/24 13:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD

Date Collected: 01/25/24 12:15
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-27

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0358	U	0.0550	0.0551	1.00	0.0950	pCi/L	01/30/24 10:07	02/21/24 09:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*01/30/24 10:07*	*02/21/24 09:37*	*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	0.0519	U	0.248	0.248	1.00	0.451	pCi/L	01/30/24 10:19	02/12/24 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:10*	*1*
Y Carrier	*90.8*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:10*	*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	0.0877	U	0.254	0.254	5.00	0.451	pCi/L		02/22/24 13:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08&D

Date Collected: 01/25/24 13:05
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-30

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.175**		0.0968	0.0981	1.00	0.122	pCi/L	01/30/24 10:07	02/21/24 09:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*01/30/24 10:07*	*02/21/24 09:37*	*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	0.214	U	0.305	0.306	1.00	0.513	pCi/L	01/30/24 10:19	02/12/24 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:10*	*1*
Y Carrier	*93.8*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:10*	*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	0.389	U	0.320	0.321	5.00	0.513	pCi/L		02/22/24 13:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S

Date Collected: 01/25/24 13:30
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-32

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00865	U	0.0545	0.0545	1.00	0.109	pCi/L	01/30/24 10:07	02/21/24 09:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*01/30/24 10:07*	*02/21/24 09:37*	*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	**0.753**		0.402	0.408	1.00	0.567	pCi/L	01/30/24 10:19	02/12/24 12:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:10*	*1*
Y Carrier	*81.5*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:10*	*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	**0.761**		0.406	0.412	5.00	0.567	pCi/L		02/22/24 13:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18&D
Date Collected: 01/25/24 14:40
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-33
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.207**		0.139	0.141	1.00	0.203	pCi/L	01/30/24 10:07	02/21/24 09:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.6*		*30 - 110*	*01/30/24 10:07*	*02/21/24 09:37*	*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	0.679	U	0.473	0.477	1.00	0.713	pCi/L	01/30/24 10:19	02/12/24 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.6*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:09*	*1*
Y Carrier	*84.9*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:09*	*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	**0.886**		0.493	0.497	5.00	0.713	pCi/L		02/22/24 13:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_45#S

Date Collected: 01/25/24 11:45
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-35

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.211**		0.143	0.145	1.00	0.206	pCi/L	01/30/24 10:07	02/21/24 09:37	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*01/30/24 10:07*	*02/21/24 09:37*	*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	0.610	U	0.455	0.458	1.00	0.693	pCi/L	01/30/24 10:19	02/12/24 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.0*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:09*	*1*
Y Carrier	*89.7*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:09*	*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	**0.821**		0.477	0.480	5.00	0.693	pCi/L		02/22/24 13:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_XPW01_PORE

Date Collected: 01/25/24 08:45
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-36

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00893	U	0.187	0.187	1.00	0.371	pCi/L	01/30/24 10:07	02/21/24 09:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*34.1*		*30 - 110*	*01/30/24 10:07*	*02/21/24 09:32*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.21	U G	1.14	1.14	1.00	1.80	pCi/L	01/30/24 10:19	02/12/24 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*34.1*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:09*	*1*
Y Carrier	*83.4*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:09*	*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	1.21	U	1.16	1.16	5.00	1.80	pCi/L		02/22/24 13:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_XPW02_PORE

Date Collected: 01/25/24 09:30
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-37

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0873	U	0.0721	0.0725	1.00	0.106	pCi/L	01/30/24 10:07	02/21/24 09:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*01/30/24 10:07*	*02/21/24 09:32*	*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	**1.39**		0.449	0.467	1.00	0.525	pCi/L	01/30/24 10:19	02/12/24 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:09*	*1*
Y Carrier	*84.1*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:09*	*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	**1.48**		0.455	0.473	5.00	0.525	pCi/L		02/22/24 13:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_XPW03_PORE

Lab Sample ID: 500-245277-38

Date Collected: 01/25/24 10:30
Matrix: Water
Date Received: 01/26/24 11:45

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	0.00643	U	0.0495	0.0495	1.00	0.0997	pCi/L	01/30/24 10:07	02/21/24 09:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*01/30/24 10:07*	*02/21/24 09:32*	*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	0.473	U	0.350	0.353	1.00	0.536	pCi/L	01/30/24 10:19	02/12/24 12:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:09*	*1*
Y Carrier	*84.5*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:09*	*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	0.480	U	0.353	0.356	5.00	0.536	pCi/L		02/22/24 13:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_07

Date Collected: 01/26/24 08:50
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-39

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.241		0.0927	0.0952	1.00	0.0943	pCi/L	01/30/24 10:07	02/21/24 09:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*30 - 110*	*01/30/24 10:07*	*02/21/24 09:32*	*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	0.706		0.356	0.362	1.00	0.494	pCi/L	01/30/24 10:19	02/12/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.2*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:08*	*1*
Y Carrier	*81.9*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:08*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.947		0.368	0.374	5.00	0.494	pCi/L		02/22/24 13:59	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08

Date Collected: 01/26/24 08:20
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-40

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.455		0.130	0.136	1.00	0.121	pCi/L	01/30/24 10:07	02/21/24 18:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*01/30/24 10:07*	*02/21/24 18:16*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.953		0.382	0.392	1.00	0.479	pCi/L	01/30/24 10:19	02/12/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:08*	*1*
Y Carrier	*87.5*		*30 - 110*	*01/30/24 10:19*	*02/12/24 12:08*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.41		0.404	0.415	5.00	0.479	pCi/L		02/22/24 13:59	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Qualifiers

Rad

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits
F1	MS and/or MSD recovery exceeds control limits.
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Rad

Prep Batch: 645975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	PrecSep-21	
500-245277-14	HEN_13	Total/NA	Water	PrecSep-21	
500-245277-15	HEN_16	Total/NA	Water	PrecSep-21	
500-245277-16	HEN_16_FD	Total/NA	Water	PrecSep-21	
500-245277-17	HEN_17	Total/NA	Water	PrecSep-21	
500-245277-18	HEN_23	Total/NA	Water	PrecSep-21	
500-245277-19	HEN_46	Total/NA	Water	PrecSep-21	
500-245277-20	HEN_47	Total/NA	Water	PrecSep-21	
500-245277-21	HEN_51	Total/NA	Water	PrecSep-21	
500-245277-22	HEN_52	Total/NA	Water	PrecSep-21	
500-245277-23	HEN_54	Total/NA	Water	PrecSep-21	
500-245277-24	HEN_54_FD	Total/NA	Water	PrecSep-21	
500-245277-25	HEN_FB	Total/NA	Water	PrecSep-21	
MB 160-645975/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-645975/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 645976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-13	HEN_12	Total/NA	Water	PrecSep_0	
500-245277-14	HEN_13	Total/NA	Water	PrecSep_0	
500-245277-15	HEN_16	Total/NA	Water	PrecSep_0	
500-245277-16	HEN_16_FD	Total/NA	Water	PrecSep_0	
500-245277-17	HEN_17	Total/NA	Water	PrecSep_0	
500-245277-18	HEN_23	Total/NA	Water	PrecSep_0	
500-245277-19	HEN_46	Total/NA	Water	PrecSep_0	
500-245277-20	HEN_47	Total/NA	Water	PrecSep_0	
500-245277-21	HEN_51	Total/NA	Water	PrecSep_0	
500-245277-22	HEN_52	Total/NA	Water	PrecSep_0	
500-245277-23	HEN_54	Total/NA	Water	PrecSep_0	
500-245277-24	HEN_54_FD	Total/NA	Water	PrecSep_0	
500-245277-25	HEN_FB	Total/NA	Water	PrecSep_0	
MB 160-645976/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-645976/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 645979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	PrecSep-21	
500-245277-2	HEN_22	Total/NA	Water	PrecSep-21	
500-245277-3	HEN_22&D	Total/NA	Water	PrecSep-21	
500-245277-4	HEN_27	Total/NA	Water	PrecSep-21	
500-245277-5	HEN_32	Total/NA	Water	PrecSep-21	
500-245277-6	HEN_34	Total/NA	Water	PrecSep-21	
500-245277-7	HEN_35	Total/NA	Water	PrecSep-21	
500-245277-8	HEN_35_FD	Total/NA	Water	PrecSep-21	
500-245277-9	HEN_49	Total/NA	Water	PrecSep-21	
500-245277-10	HEN_50	Total/NA	Water	PrecSep-21	
MB 160-645979/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-645979/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-245277-1 MS	HEN_21R_MS	Total/NA	Water	PrecSep-21	
500-245277-1 MSD	HEN_21R_MSD	Total/NA	Water	PrecSep-21	
500-245277-9 MS	HEN_49_MS	Total/NA	Water	PrecSep-21	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Rad (Continued)

Prep Batch: 645979 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-9 MSD	HEN_49_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 645980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-1	HEN_21R	Total/NA	Water	PrecSep_0	
500-245277-2	HEN_22	Total/NA	Water	PrecSep_0	
500-245277-3	HEN_22&D	Total/NA	Water	PrecSep_0	
500-245277-4	HEN_27	Total/NA	Water	PrecSep_0	
500-245277-5	HEN_32	Total/NA	Water	PrecSep_0	
500-245277-6	HEN_34	Total/NA	Water	PrecSep_0	
500-245277-7	HEN_35	Total/NA	Water	PrecSep_0	
500-245277-8	HEN_35_FD	Total/NA	Water	PrecSep_0	
500-245277-9	HEN_49	Total/NA	Water	PrecSep_0	
500-245277-10	HEN_50	Total/NA	Water	PrecSep_0	
MB 160-645980/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-645980/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-245277-1 MS	HEN_21R_MS	Total/NA	Water	PrecSep_0	
500-245277-1 MSD	HEN_21R_MSD	Total/NA	Water	PrecSep_0	
500-245277-9 MS	HEN_49_MS	Total/NA	Water	PrecSep_0	
500-245277-9 MSD	HEN_49_MSD	Total/NA	Water	PrecSep_0	

Prep Batch: 646070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-26	HEN_03R	Total/NA	Water	PrecSep-21	
500-245277-27	HEN_03R_FD	Total/NA	Water	PrecSep-21	
500-245277-30	HEN_08&D	Total/NA	Water	PrecSep-21	
500-245277-32	HEN_18#S	Total/NA	Water	PrecSep-21	
500-245277-33	HEN_18&D	Total/NA	Water	PrecSep-21	
500-245277-35	HEN_45#S	Total/NA	Water	PrecSep-21	
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	PrecSep-21	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	PrecSep-21	
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	PrecSep-21	
500-245277-39	HEN_07	Total/NA	Water	PrecSep-21	
500-245277-40	HEN_08	Total/NA	Water	PrecSep-21	
MB 160-646070/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-646070/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 646071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-245277-26	HEN_03R	Total/NA	Water	PrecSep_0	
500-245277-27	HEN_03R_FD	Total/NA	Water	PrecSep_0	
500-245277-30	HEN_08&D	Total/NA	Water	PrecSep_0	
500-245277-32	HEN_18#S	Total/NA	Water	PrecSep_0	
500-245277-33	HEN_18&D	Total/NA	Water	PrecSep_0	
500-245277-35	HEN_45#S	Total/NA	Water	PrecSep_0	
500-245277-36	HEN_XPW01_PORE	Total/NA	Water	PrecSep_0	
500-245277-37	HEN_XPW02_PORE	Total/NA	Water	PrecSep_0	
500-245277-38	HEN_XPW03_PORE	Total/NA	Water	PrecSep_0	
500-245277-39	HEN_07	Total/NA	Water	PrecSep_0	
500-245277-40	HEN_08	Total/NA	Water	PrecSep_0	
MB 160-646071/1-A	Method Blank	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 590-245277-2
SDG: HEN_000_RAD

Rad (Continued)

Prep Batch: 646071 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-646071/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-645975/1-A
Matrix: Water
Analysis Batch: 648921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645975

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.001936	U	0.0429	0.0429	1.00	0.0908	pCi/L	01/29/24 09:04	02/20/24 09:19	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*01/29/24 09:04*	*02/20/24 09:19*	*1*

Lab Sample ID: LCS 160-645975/2-A
Matrix: Water
Analysis Batch: 648921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645975

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.19		1.14	1.00	0.104	pCi/L	99	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.9*		*30 - 110*

Lab Sample ID: MB 160-645979/1-A
Matrix: Water
Analysis Batch: 648923

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645979

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04712	U	0.0692	0.0693	1.00	0.118	pCi/L	01/29/24 09:16	02/20/24 07:30	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.7*		*30 - 110*	*01/29/24 09:16*	*02/20/24 07:30*	*1*

Lab Sample ID: LCS 160-645979/2-A
Matrix: Water
Analysis Batch: 648923

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645979

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.03		1.14	1.00	0.0951	pCi/L	97	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.4*		*30 - 110*

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 648923

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 645979

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.989		22.9	25.36		2.88	1.00	0.584	pCi/L	106	60 - 140		

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 648923

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 645979

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	39.4		30 - 110

Lab Sample ID: 500-245277-1 MSD
Matrix: Water
Analysis Batch: 648923

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA
Prep Batch: 645979

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.989		22.6	22.21		2.36	1.00	0.314	pCi/L	94	60 - 140	0.60	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	76.3		30 - 110

Lab Sample ID: 500-245277-9 MS
Matrix: Water
Analysis Batch: 648923

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 645979

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.352		15.2	16.29		1.80	1.00	0.226	pCi/L	105	60 - 140

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	47.1		30 - 110

Lab Sample ID: 500-245277-9 MSD
Matrix: Water
Analysis Batch: 648923

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 645979

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.352		15.0	13.19		1.40	1.00	0.181	pCi/L	85	60 - 140	0.97	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	87.0		30 - 110

Lab Sample ID: MB 160-646070/1-A
Matrix: Water
Analysis Batch: 649031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646070

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0007762	U	0.0540	0.0540	1.00	0.112	pCi/L	01/30/24 10:07	02/21/24 09:26	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	88.0		30 - 110	01/30/24 10:07	02/21/24 09:26	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 590-245277-2
SDG: HEN_000_RAD

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

Lab Sample ID: LCS 160-646070/2-A
Matrix: Water
Analysis Batch: 649031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646070

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	12.38		1.28	1.00	0.0957	pCi/L	109	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*86.3*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-645976/1-A
Matrix: Water
Analysis Batch: 647133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645976

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2216	U	0.242	0.243	1.00	0.394	pCi/L	01/29/24 09:08	02/07/24 11:32	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.2*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:32*	*1*
Y Carrier	*84.5*		*30 - 110*	*01/29/24 09:08*	*02/07/24 11:32*	*1*

Lab Sample ID: LCS 160-645976/2-A
Matrix: Water
Analysis Batch: 647133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645976

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.23	9.352		1.24	1.00	0.429	pCi/L	101	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.9*		*30 - 110*
Y Carrier	*84.1*		*30 - 110*

Lab Sample ID: MB 160-645980/1-A
Matrix: Water
Analysis Batch: 647494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 645980

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.08091	U	0.321	0.321	1.00	0.583	pCi/L	01/29/24 09:19	02/09/24 12:13	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.7*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:13*	*1*
Y Carrier	*82.6*		*30 - 110*	*01/29/24 09:19*	*02/09/24 12:13*	*1*

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

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

Lab Sample ID: LCS 160-645980/2-A
Matrix: Water
Analysis Batch: 647494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 645980

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.23	9.609		1.31	1.00	0.474	pCi/L	104	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.4*		*30 - 110*
Y Carrier	*83.4*		*30 - 110*

Lab Sample ID: 500-245277-1 MS
Matrix: Water
Analysis Batch: 647494

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 645980

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	-0.277	U F G	18.7	33.06	F1	5.16	1.00	2.69	pCi/L	177	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*39.4*		*30 - 110*
Y Carrier	*77.4*		*30 - 110*

Lab Sample ID: 500-245277-1 MSD
Matrix: Water
Analysis Batch: 647494

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA
Prep Batch: 645980

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	-0.277	U F G	18.4	23.84		3.39	1.00	1.47	pCi/L	129	60 - 140	1.08	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*76.3*		*30 - 110*
Y Carrier	*71.4*		*30 - 110*

Lab Sample ID: 500-245277-9 MS
Matrix: Water
Analysis Batch: 647494

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 645980

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.595	U G F	12.4	17.66		2.80	1.00	1.38	pCi/L	138	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*47.1*		*30 - 110*
Y Carrier	*75.9*		*30 - 110*

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-245277-9 MSD
Matrix: Water
Analysis Batch: 647494

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 645980

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.595	U G F	12.2	12.23	F	1.75	1.00	0.748	pCi/L	95	60 - 140	1.20	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*87.0*		*30 - 110*
Y Carrier	*80.0*		*30 - 110*

Lab Sample ID: MB 160-646071/1-A
Matrix: Water
Analysis Batch: 647898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646071

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2745	U	0.275	0.276	1.00	0.441	pCi/L	01/30/24 10:19	02/12/24 11:55	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.0*		*30 - 110*	*01/30/24 10:19*	*02/12/24 11:55*	*1*
Y Carrier	*88.2*		*30 - 110*	*01/30/24 10:19*	*02/12/24 11:55*	*1*

Lab Sample ID: LCS 160-646071/2-A
Matrix: Water
Analysis Batch: 647898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646071

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			9.22	10.05		1.34	1.00	0.482	pCi/L	109	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*86.3*		*30 - 110*
Y Carrier	*87.9*		*30 - 110*

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_21R
Date Collected: 01/23/24 12:40
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 07:30
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:14
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_22
Date Collected: 01/23/24 15:20
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648924	FLC	EET SL	02/20/24 07:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_22&D
Date Collected: 01/23/24 15:00
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_27
Date Collected: 01/23/24 10:45
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_32
Date Collected: 01/23/24 09:30
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:15
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_34
Date Collected: 01/23/24 11:50
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_35
Date Collected: 01/23/24 13:40
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:24
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_35_FD
Date Collected: 01/23/24 13:40
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
JHEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_49
Date Collected: 01/23/24 16:10
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647494	SCB	EET SL	02/09/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_50
Date Collected: 01/23/24 16:10
Date Received: 01/24/24 12:20

Lab Sample ID: 500-245277-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645979	KAC	EET SL	01/29/24 09:16
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:23
Total/NA	Prep	PrecSep_0			645980	KAC	EET SL	01/29/24 09:19
Total/NA	Analysis	904.0		1	647515	SCB	EET SL	02/09/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	649062	SCB	EET SL	02/21/24 16:16

Client Sample ID: HEN_12
Date Collected: 01/24/24 11:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:20
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_13
Date Collected: 01/24/24 12:41
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:20
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
JHEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_16
Date Collected: 01/24/24 10:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:20
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_16_FD
Date Collected: 01/24/24 10:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:21
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_17
Date Collected: 01/24/24 11:55
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:21
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_23
Date Collected: 01/24/24 08:35
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:22
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46
Date Collected: 01/24/24 13:10
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:22
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_47
Date Collected: 01/24/24 14:30
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:22
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_51
Date Collected: 01/24/24 09:00
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648921	FLC	EET SL	02/20/24 09:22
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_52
Date Collected: 01/24/24 10:25
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:32
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54
Date Collected: 01/24/24 13:57
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:32
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_54_FD
Date Collected: 01/24/24 13:57
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:32
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:31
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_FB
Date Collected: 01/24/24 16:10
Date Received: 01/25/24 11:51

Lab Sample ID: 500-245277-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			645975	KAC	EET SL	01/29/24 09:04
Total/NA	Analysis	903.0		1	648923	FLC	EET SL	02/20/24 09:32
Total/NA	Prep	PrecSep_0			645976	KAC	EET SL	01/29/24 09:08
Total/NA	Analysis	904.0		1	647133	FLC	EET SL	02/07/24 11:30
Total/NA	Analysis	Ra226_Ra228 Pos		1	649061	SCB	EET SL	02/21/24 16:02

Client Sample ID: HEN_03R
Date Collected: 01/25/24 12:15
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD
Date Collected: 01/25/24 12:15
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_08&D
Date Collected: 01/25/24 13:05
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_18#S
Date Collected: 01/25/24 13:30
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:10
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_18&D
Date Collected: 01/25/24 14:40
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_45#S
Date Collected: 01/25/24 11:45
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649033	FLC	EET SL	02/21/24 09:37
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_XPW01_PORE
Date Collected: 01/25/24 08:45
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649035	FLC	EET SL	02/21/24 09:32
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_XPW02_PORE
Date Collected: 01/25/24 09:30
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649035	FLC	EET SL	02/21/24 09:32
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_XPW03_PORE
Date Collected: 01/25/24 10:30
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649035	FLC	EET SL	02/21/24 09:32
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:09
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Client Sample ID: HEN_07
Date Collected: 01/26/24 08:50
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649035	FLC	EET SL	02/21/24 09:32
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

Client Sample ID: HEN_08
Date Collected: 01/26/24 08:20
Date Received: 01/26/24 11:45

Lab Sample ID: 500-245277-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			646070	KAC	EET SL	01/30/24 10:07
Total/NA	Analysis	903.0		1	649035	FLC	EET SL	02/21/24 18:16
Total/NA	Prep	PrecSep_0			646071	KAC	EET SL	01/30/24 10:19
Total/NA	Analysis	904.0		1	647880	SCB	EET SL	02/12/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	649305	SCB	EET SL	02/22/24 13:59

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: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_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

500-245277

CHAIN-OF-CUSTODY / Analytical Request Document

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

HEN-257-803

Page: 1 of 3

Section A Required Client Information:
Company: Vistra Corp-Hennepin
Address: 13498 E 800th St
Hennepin, IL 61327
Email To: Brian.Voelker@VistraCorp.com
Phone (217) 753-8911 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:
Report To: Brian Voelker
Copy To: Jason Stuckey Jason.Stuckey@vistracorp.com
Sam Davies samantha.davies@vistracorp.com
Purchase Order No.
Project Name
Project Number: 50022619

Section C Invoice Information:
Attention: Dave McCoy
Company Name: A3 Environmental
Address: 3030 Warrenville Rd , Suite 418
Warrenville, IL 60532
Project Manager
Profile #:

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

500-245277 COC

Requested Analysis Filtered (Y/N)

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I D
	HEN-02																							X			A		SHORT HOLDS - NO2
	HEN-03R																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-05IR																X				X							E		SHORT HOLDS - NO2
	HEN-05&DR																X				X							E		SHORT HOLDS - NO2
	HEN-07																X	X	X			X	X		X		X	B		SHORT HOLDS - NO2
	HEN-08																X	X	X		X	X	X		X		X	C		SHORT HOLDS NO2
	HEN-08&D																X	X	X		X	X	X		X		X	C		SHORT HOLDS - NO2
	HEN-10																X				X				X			D		SHORT HOLDS - NO2
	HEN-12																X			X	X		X				X	F		SHORT HOLDS - NO2
	HEN-13																X			X	X		X				X	F		SHORT HOLDS - NO2
	HEN-16																	X		X			X				X	G		
	HEN-17																	X		X			X				X	G		
	HEN-18#S																		X			X			X		X	B		SHORT HOLDS - NO2
	HEN-18&D																		X			X			X		X	B		SHORT HOLDS - NO2
1	HEN-21R	WT	G	1/23/24	1240		24	N		N											X			X		X	X	H		MS/MSD
2	HEN-22	WT	G	1/23/24	1520		8	N		N											X			X		X	X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/24/24	0700				
	J. Ellias	1/24/24	1220		1/24/24	1220	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Allison Beckett
SIGNATURE of SAMPLER: Beckett
DATE Signed (MM/DD/YY): 1/23/24

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

Temp = 2.6 → 2.1, 3.7 → 3.2, 1.8 → 2.3

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page: 2 HEN-257-803

Section A Required Client Information:
Company: Vistra Corp-Hennepin
Address: 13498 E 800th St
Hennepin, IL 61327
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:
Report To: Brian Voelker
Copy To: Jason Stuckey Jason Stuckey@vistracorp com
Sam Davies samantha davies@vistracorp com
Purchase Order No.
Project Name:
Project Number: 50022619

Section C Invoice Information:
Attention: Dave McCoy
Company Name: A3 Environmental
Address: 3030 Warrenville Rd , Suite 418
Warrenville, IL 60532
Project Manager
Profile #:

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

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I D
3	HEN-22&D	WT	G	1/23/24	1500		8	✓		✓										X				X		X	X	H		
	HEN-23																			X				X		X	X	H		
	HEN-25																			X								J		DTW ONLY
	HEN-26																			X								J		DTW ONLY
4	HEN-27	WT	G	1/23/24	1045		8	✓		✓										X				X		X	X	H		
	HEN-30																			X								J		DTW ONLY
	HEN-31																			X								J		DTW ONLY
5	HEN-32	WT	G	1/23/24	0930		8	✓		✓										X				X		X	X	H		
	HEN-33																			X								J		DTW ONLY
6	HEN-34	WT	G	1/23/24	1150		8	✓		✓										X				X		X	X	H		
7/8	HEN-35	WT	G	1/23/24	1340		8	✓		✓										X				X		X	X	H		DUPE
	HEN-36																			X								J		DTW ONLY
	HEN-40#S																X				X							E		SHORT HOLDS - NO2
	HEN-45#S																	X				X		X			X	B		SHORT HOLDS - NO2
	HEN-46																		X				X				X	G		
	HEN-47																		X				X				X	G		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/24/24	0730		1/24/24	1005	
		1/24/24	1234		1/24/24	1220	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Allison Beckett
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 1/23/24

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:
Section B Required Project Information:
Section C Invoice Information:

Page: 3 of 3

800-245222-1

Company: Vistra Energy Corp-Hennepin	Report To: Brian Voelker	Attention: Dave McCoy	REGULATORY AGENCY
Address: 13498 E 800th St	Copy To: Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name: A3 Environmental	NPDES **GROUND WATER** DRINKING WATER
Hennepin, IL 61327		Address: 3030 Warrenville Rd , Suite 418	UST RCRA OTHER
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.	Warrenville, IL 60532	
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:	Site Location STATE: IL
Requested Due Date/TAT: 10 day	Project Number: 50022619	Profile #:	

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I D
	HEN-48	WT	G	1/23/24	PB												X										I		
9	HEN-49	WT	G	1/23/24	1010		2	N		N										X				X		X	X	H	
10	HEN-50	WT	G	1/23/24	1010		8	N		N										X				X		X	X	H	
	HEN-51																			X				X		X	X	H	
	HEN-52																		X				X				X	G	
	HEN-54																		X				X				X	G	
	HEN-55																		X				X					J	DTW ONLY
	HEN-XPW01-pore																		X				X				X	G	
	HEN-XPW02-pore																		X				X				X	G	
	HEN-XPW03-pore																		X				X				X	G	
	HEN-XSG01																		X				X					J	DTW ONLY
	HEN-FB																	X			X			X	X		X	C	SHORT HOLDS - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/24/24	0700		1/24/24	1005	
		1/24/24	1220		1/24/24	1220	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Allison Beckett

DATE Signed (MM/DD/YY): 1/23/24

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 3

Section A Required Client Information:

Company	Vistra Corp-Hennepin
Address	13498 E 800th St Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911
Fax	
Requested Due Date/TAT	10 day

Section B Required Project Information

Report To	Brian Voelker
Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number	50022619

Section C Invoice Information

Attention	Dave McCoy
Company Name	A3 Environmental
Address	3030 Warrenville Rd , Suite 418 Warrenville, IL 60532
Project Manager	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

500-245277 COC

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I D.
11	HEN-02	WT	G	1/24/24	1510		10	✓	✓	✓	✓	✓													X			A		SHORT HOLDS - NO2
	HEN-03R																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-05IR																X				X						E		SHORT HOLDS - NO2
	HEN-05&DR																X				X						E		SHORT HOLDS - NO2
	HEN-07																X	X	X			X	X		X		X	B		SHORT HOLDS - NO2
	HEN-08																X	X	X		X	X	X		X		X	C		SHORT HOLDS - NO2
	HEN-08&D																X	X	X		X	X	X		X		X	C		SHORT HOLDS - NO2
12	HEN-10	WT	G	1/24/24	1600		13	✓	✓	✓	✓										X				X			D		SHORT HOLDS - NO2
13	HEN-12	WT	G	1/24/24	1155		13	✓	✓	✓	✓								X		X		X				X	F		SHORT HOLDS - NO2
14	HEN-13	WT	G	1/24/24	1241		19	✓	✓	✓	✓								X		X		X				X	F		SHORT HOLDS - NO2
15/16	HEN-16	WT	G	1/24/24	1055		12	✓	✓	✓							X		X				X				X	G		DUPE
17	HEN-17	WT	G	1/24/24	1155		6	✓	✓	✓							X		X				X				X	G		
	HEN-18IS																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-18&D																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-21R																			X				X		X	X	H		
	HEN-22																			X				X		X	X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/25/24	0700	[illegible] Ellis	1/25/24	0940	
	[illegible] Ellis	1/25/24	1151	Stephanie Hernandez EEIA	01/25/24	1151	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett

DATE Signed (MM/DD/YY): 1/24/24

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

Temp: 4.4+3.9, 5.7+5.2, 5.6+5.1, 4.9+4.4

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 2 HEN-257-803 3

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To.	Brian Voelker	Attention	Dave McCoy
Address	13498 E 800th St	Copy To.	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	A3 Environmental
	Hennepin, IL 61327			Address	3030 Warrenville Rd , Suite 418
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No			Warrenville, IL 60532
Phone	(217) 753-8911 Fax	Project Name		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	50022619	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN-22&D~~																			X				X	X	X	H		
18	HEN-23	WT	G	1/24/24	0835		8	✓		✓										X				X		X	X	H		
	~~HEN-25~~																			X								J		~~DTW ONLY~~
	~~HEN-26~~																			X								J		~~DTW ONLY~~
	HEN-27																			X				X		X	X	H		
	HEN-30																			X								J		DTW ONLY
	HEN-31																			X								J		DTW ONLY
	~~HEN-32~~																			X				X		X	X	H		
	HEN-33																			X								J		DTW ONLY
	HEN-34																			X				X		X	X	H		
	HEN-35																			X				X		X	X	H		
	HEN-36																			X								J		DTW ONLY
	~~HEN-40#S~~																X				X							E		~~SHORT HOLDS - NO2~~
	~~HEN-45#S~~																	X				X			X			B		~~SHORT HOLDS - NO2~~
19	HEN-46	WT	G	1/24/24	1310		6	✓		✓									X				X				X	G		
20	HEN-47	WT	G	1/24/24	1430		10	✓		✓									X				X				X	G		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/25/24	0700	R. J. Ellison	1/25/24	0840	
	R. J. Ellison	1/25/24	1151	Sukhonia Hemmons EEA	1/25/24	1151	

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	Allison Beckett					
SIGNATURE of SAMPLER	Beckett	DATE Signed (MM/DD/YY) 1/24/24				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Section B Section C

Page 3 of 3

AB

Required Client Information:		Required Project Information:		Invoice Information:	
Company	Vistra Energy Corp-Hennepin	Report To:	Brian Voelker	Attention:	Dave McCoy
Address	13498 E 800th St Hennepin, IL 61327	Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	A3 Environmental
				Address	3030 Warrenville Rd , Suite 418 Warrenville, IL 60532
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.			
Phone	(217) 753-8911 Fax:	Project Name		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50022619	Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN-48~~																X												
	HEN-49																			X				X		X	X	H	
	~~HEN-50~~	WT	G	1/24/24	1100															X				X		X	X	H	
21	HEN-51	WT	G	1/24/24	0900		8	✓		✓										X				X		X	X	H	
22	HEN-52	WT	G	1/24/24	1025		6	✓		✓									X				X				X	G	
23/24	HEN-54	WT	G	1/24/24	1357		12	✓		✓									X				X				X	G		DUPE
	~~HEN-55~~																		X				X					J		DTW ONLY
	HEN-XPW01-pore																		X				X				X	G		
	HEN-XPW02-pore																		X				X				X	G		
	HEN-XPW03-pore																		X				X				X	G		
	~~HEN-XSG01~~																		X				X					J		DTW ONLY
25	HEN-FB	WT	G	1/24/24	1010													X			X			X	X		X	C		SHORT HOLDS - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett ABE	1/25/24	0700	R.J. Ellis	1/25/25	0940	
	R.J. Ellis	1/25/24	1151	Stephanie Hemandez EEIA	1125/24	1151	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Allison Beckett
SIGNATURE of SAMPLER: Beckett
DATE Signed (MM/DD/YY): 1/24/24

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-245277

Page 1 of 3

Section A Required Client Information:

Company	Vistra Corp-Hennepin
Address	13498 E 800th St Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax.
Requested Due Date/TAT	10 day

Section B Required Project Information

Report To	Brian Voelker
Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number	50022619

Section C Invoice Information

Attention:	Dave McCoy
Company Name	A3 Environmental
Address	3030 Warrenville Rd , Suite 418 Warrenville, IL 60532
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

500-245277 COC

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN-02~~																							X			A			~~SHORT HOLDS - NO2~~
26 27	HEN-03R	WT	G	1/25/24	1215		30	V	✓	✓	✓	✓						X				X			X		X	B			SHORT HOLDS - NO2 DUPE!
28	HEN-05IR	WT	G	1/25/24	1350		11	✓	✓	✓		✓					X				X							E			SHORT HOLDS - NO2
29	HEN-05&DR	WT	G	1/25/24	1550		11	✓	✓	✓		✓					X				X							E			SHORT HOLDS - NO2
	~~HEN-07~~																X	X	X		X	X	X		X		X	B			SHORT HOLDS - NO2
	HEN-08																~~X~~	~~X~~	~~X~~		~~X~~	~~X~~	~~X~~		~~X~~		~~X~~	~~C~~			~~SHORT HOLDS - NO2~~
30	HEN-08&D	WT	G	1/25/24	1305		16	✓	✓	✓	✓	✓					X	X	X		X	X	X		X		X	C			SHORT HOLDS - NO2
	~~HEN-10~~																				X				X			D			SHORT HOLDS - NO2
	HEN-12																		X		X		X				X	F			SHORT HOLDS - NO2
31	HEN-TB HEN-13			1/25/24															X		X		X				X	F			SHORT HOLDS - NO2
	HEN-16																X		X				X				X	G			
	HEN-17																~~X~~		~~X~~				~~X~~				~~X~~	~~G~~			
32	HEN-18#S	WT	G	1/25/24	1330		15	✓	✓	✓	✓	✓						X				X			X		X	B			SHORT HOLDS - NO2
33	HEN-18&D	WT	G	1/25/24	1440		15	✓	✓	✓	✓	✓						X				X			X		X	B			SHORT HOLDS - NO2
	~~HEN-21R~~																			X				X		X	X	H			
	HEN-22																			X				X		X	X	H			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/26/24	0700	[illegible] EETA	1/26/24	1145	WS 01/26/24
	[signature]	1-26-24	1145	[illegible] EETA	01/26/24	1145	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER	Allison Beckett		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER	[signature]	DATE Signed (MM/DD/YY) 1/25/24				

4.6+4.1, 3.8+3.3, 3.1+2.6, 3.2+2.7, 4.9+4.4

CHAIN-OF-CUSTODY / Analytical Request Document

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803

Section A Section B Section C

CHAIN-OF-CUSTODY / Analytical Request Document

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

HEN-240I Rev 2

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information:	
Company: Vistra Corp-Hennepin		Report To: Brian Voelker		Attention: Dave McCoy	
Address: 13498 E 800th St		Copy To: Jason Stuckey Jason.Stuckey@vistracorp.com		Company Name: A3 Environmental	
Hennepin, IL 61327		Sam Davies samantha.davies@vistracorp.com		Address: 3030 Warrenville Rd , Suite 418	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.		Warrenville, IL 60532	
Phone: (217) 753-8911	Fax:	Project Name		Project Manager:	
Requested Due Date/TAT: 10 day		Project Number: 60022619		Profile #:	

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX / CODE	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	# OF CONTAINERS	SAMPLE TEMP AT COLLECTION	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN-28RD																				
2	HEN-23																				
3	HEN-25																				
4	HEN-26																				
5	HEN-27																				
6	HEN-30																				
7	HEN-31																				
8	HEN-32																				
9	HEN-33																				
10	HEN-34																				
11	HEN-35																				
12	HEN-36																				
13	HEN-40#S	WT	G	1/25/24	1415	11															
14	HEN-45#S	WT	G	1/25/24	1145	15															
15	HEN-46																				
16	HEN-47																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-240I Rev 2	Allison Beckett A3E	1/26/24	0700	Brian Voelker	1/26/24	1145	
	Brian Voelker	1/26/24	1145	Allison Beckett	01/26/24	1145	

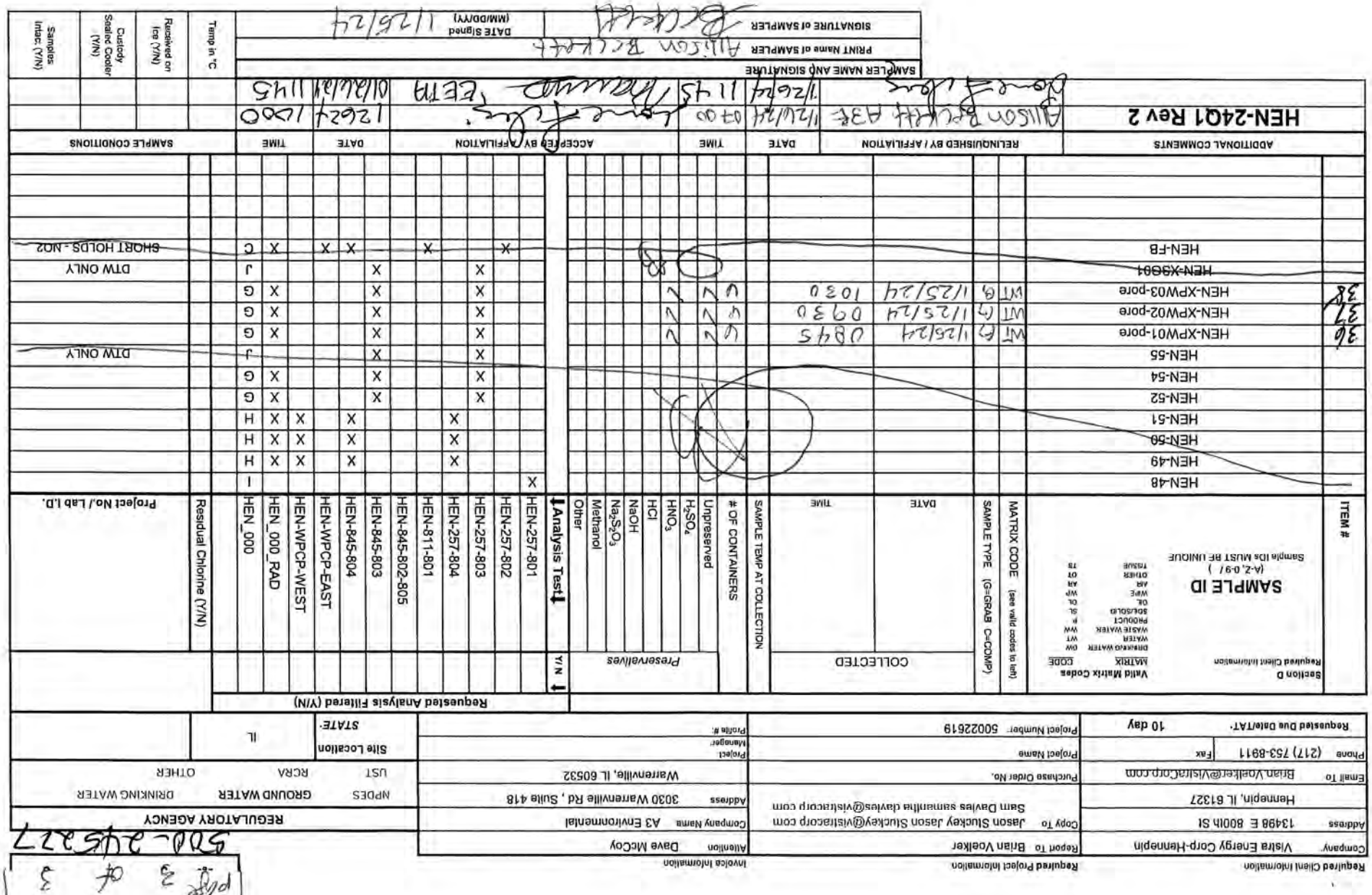
SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Allison Beckett DATE Signed (MM/DD/YY): 1/25/24

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

Page 2 of 3



HEN-2401 Rev 2

Requested Client Information
Company: Vistra Energy Corp-Hennepin
Address: 13498 E 800lh St
Hennepin, IL 61327
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax
Requested Due Date/TAT: 10 day

Required Project Information
Report To: Brian Voelker
Copy To: Jason Stuckey Jason.Stuckey@vistracorp.com
Sam Davies samantha.davies@vistracorp.com
Purchase Order No.
Project Name
Project Number: 5002619
Project Manager
Profile #:

Invoice Information
Attention: Dave McCoy
Company Name: A3 Environmental
Address: 3030 Warrenville Rd , Suite 418
Warrenville, IL 60532

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

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information / SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN_000	HEN_000_RAD	HEN-WPCP-WEST	HEN-WPCP-EAST	HEN-845-804	HEN-845-803	HEN-845-802-805	HEN-811-801	HEN-257-804	HEN-257-803	HEN-257-802	HEN-257-801	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	HEN-48																X												
	HEN-49																	I	H	X	X		X			X				
	HEN-50																		H	X	X		X			X				
	HEN-51																		H	X	X	X				X				
	HEN-52																		G	X	X		X			X				
	HEN-54																		G	X	X		X			X				
	HEN-55																		J				X			X				DTW ONLY
36	HEN-XPW01-pore	WT	G	1/25/24	0845														G	X	X		X			X				
37	HEN-XPW02-pore	WT	G	1/25/24	0930														G	X	X		X			X				
38	HEN-XPW03-pore	WT	G	1/25/24	1030														G	X	X		X			X				
	HEN-XGG01																		J				X							DTW ONLY
	HEN-FB																		C	X	X		—	X		X				SHORT HOLDS - NO2

RELINQUISHED BY / AFFILIATION: Allison Beckett AE — DATE: 1/26/24 — TIME: 0900
ACCEPTED BY / AFFILIATION: Jason Stuckey, Vistra, EETN — DATE: 1/26/24 — TIME: 1145
SAMPLE CONDITIONS: Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) | Temp in °C

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Allison Beckett
SIGNATURE of SAMPLER: Allison Beckett
DATE Signed (MM/DD/YY): 1/25/24

Page 3 of 3

500-245277

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 1

Section A Required Client Information:

Company	Vistra Corp-Hennepin
Address	13498 E 800th St Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax
Requested Due Date/TAT	10 day

Section B Required Project Information:

Report To	Brian Voelker
Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No	
Project Name	
Project Number	50022619

Section C Invoice Information:

Attention	Dave McCoy
Company Name	A3 Environmental
Address	3030 Warrenville Rd , Suite 418 Warrenville, IL 60532
Project Manager	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	HEN-02																							X			A		~~SHORT HOLDS - NO2~~
	HEN-03R																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-05IR																X				X						E		SHORT HOLDS - NO2
	~~HEN-05&DR~~																X				X						E		SHORT HOLDS - NO2
39	HEN-07	WT	G	1/26/24	0950		6	N	N	N	N	N	N	N	N		X	X	X			X	X		X		X	B		SHORT HOLDS - NO2
40	HEN-08	WT	G	1/26/24	0820		16	N	N	N	N	N	N	N	N		X	X	X		X	X	X		X		X	C		SHORT HOLDS - NO2
	~~HEN-08&D~~																X	X	X		X	X	X		X		X	C		~~SHORT HOLDS - NO2~~
	~~HEN-10~~																				X				X			D		SHORT HOLDS - NO2
41	HEN-EB HEN-12			1/26/24															X		X		X				X	F		SHORT HOLDS - NO2
	HEN-13																		X		X		X				X	F		SHORT HOLDS - NO2
	HEN-16																X		X				X				X	G		
	HEN-17																X		X				X				X	G		
	HEN-18#S																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-18&D																	X				X			X		X	B		SHORT HOLDS - NO2
	HEN-21R																			X				X		X	X	H		
	HEN-22																			X				X		X	X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q1 Rev 2	Allison Beckett A3E	1/26/24	0900		1-26-24	1000	
		1/26/24	1145	EETA	01/26/24	1145	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Allison Beckett

DATE Signed (MM/DD/YY): 1/26/24

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

CHAIN-OF-CUSTODY / Analytical Request Document

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-184062.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-245277-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/22/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q1	Project #: 50022619			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 AN	904.0/PrecSep_0 AN	Ra226_228GFPC_P/ AN	903.0/PrecSep_21 AU	904.0/PrecSep_0 AU	Ra226_228GFPC_P/ AU	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:														
HEN_21R (500-245277-1)	1/23/24	12:40 Central		Water			X	X	X	X	X	X	X	X	X	2	
HEN_21R_MS (500-245277-1MS)	1/23/24	12:40 Central	MS	Water			X	X	X	X	X	X	X	X	X	2	
HEN_21R_MSD (500-245277-1MSD)	1/23/24	12:40 Central	MSD	Water			X	X	X	X	X	X	X	X	X	2	
HEN_22 (500-245277-2)	1/23/24	15:20 Central		Water			X	X	X	X	X	X	X	X	X	2	
HEN_22&D (500-245277-3)	1/23/24	15:00 Central		Water			X	X	X	X	X	X	X	X	X	2	
HEN_27 (500-245277-4)	1/23/24	10:45 Central		Water			X	X	X	X	X	X	X	X	X	2	
HEN_32 (500-245277-5)	1/23/24	09:30 Central		Water			X	X	X	X	X	X	X	X	X	2	
HEN_34 (500-245277-6)	1/23/24	11:50 Central		Water			X	X	X	X	X	X	X	X	X	2	
HEN_35 (500-245277-7)	1/23/24	13:40 Central		Water			X	X	X	X	X	X	X	X	X	2	

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

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Rhia Lodd	1/24/24 1325				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				M Pinette	JAN 25 2024 0930	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-184062.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-245277-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/22/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q1	Project #: 50022619			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 AN	904.0/PrecSep_0 AN	Ra226_228GFPC_P/ AN	903.0/PrecSep_21 AU	904.0/PrecSep_0 AU	Ra226_228GFPC_P/ AU	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:														
HEN_35_FD (500-245277-8)	1/23/24	13:40 Central		Water			X	X	X	X	X	X	X	X	X	2	
HEN_49 (500-245277-9)	1/23/24	16:10 Central		Water			X	X	X	X	X	X	X	X	X	2	
HEN_49_MS (500-245277-9MS)	1/23/24	16:10 Central	MS	Water			X	X	X	X	X	X	X	X	X	2	
HEN_49_MSD (500-245277-9MSD)	1/23/24	16:10 Central	MSD	Water			X	X	X	X	X	X	X	X	X	2	
HEN_50 (500-245277-10)	1/23/24	16:10 Central		Water			X	X	X	X	X	X	X	X	X	2	

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

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Shin Scott	1/24/24 1325				
2	Relinquished by:	Date/Time:	Company	Received by: M Pinette	Date/Time: JAN 25 2024 0930	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, FAST ASH POND
HEN-257-803
APPENDIX A.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-184098.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-245277-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/6/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q1	Project #: 50022619			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_12 (500-245277-13)	1/24/24	11:55 Central		Water			X	X	X	2	
HEN_13 (500-245277-14)	1/24/24	12:41 Central		Water			X	X	X	2	
HEN_16 (500-245277-15)	1/24/24	10:55 Central		Water			X	X	X	2	
HEN_16_FD (500-245277-16)	1/24/24	10:55 Central		Water			X	X	X	2	
HEN_17 (500-245277-17)	1/24/24	11:55 Central		Water			X	X	X	2	
HEN_23 (500-245277-18)	1/24/24	08:35 Central		Water			X	X	X	2	
HEN_46 (500-245277-19)	1/24/24	13:10 Central		Water			X	X	X	2	
HEN_47 (500-245277-20)	1/24/24	14:30 Central		Water			X	X	X	2	
HEN_51 (500-245277-21)	1/24/24	09:00 Central		Water			X	X	X	2	

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	1/25/24 1440		Richard Thornley	JAN 26 2024 0830	ETA STL
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-184098.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-245277-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/6/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q1	Project #: 50022619			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_52 (500-245277-22)	1/24/24	10:25 Central		Water			X	X	X	2	
HEN_54 (500-245277-23)	1/24/24	13:57 Central		Water			X	X	X	2	
HEN_54_FD (500-245277-24)	1/24/24	13:57 Central		Water			X	X	X	2	
HEN_FB (500-245277-25)	1/24/24	16:10 Central		Water			X	X	X	2	

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time: 1/25/24 1440	Company	Received by: Richard Thornley	Date/Time: JAN 26 2024 0830	Company ETA STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-184142.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-245277-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/6/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q1	Project #: 50022619			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 AJ	904.0/PrecSep_0 AJ	Ra226_228GFPC_P/ AJ	903.0/PrecSep_21 AQ	904.0/PrecSep_0 AQ	Ra226_228GFPC_P/ AQ	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	903.0/PrecSep_21 AL	904.0/PrecSep_0 AL	Ra226_228GFPC_P/ AL	903.0/PrecSep_21 AS	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
HEN_03R (500-245277-26)	1/25/24	12:15 Central		Water			X	X	X	X	X	X	X	X	X					2	
HEN_03R_FD (500-245277-27)	1/25/24	12:15 Central		Water			X	X	X	X	X	X	X	X	X					2	
HEN_08&D (500-245277-30)	1/25/24	13:05 Central		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	2	
HEN_18#S (500-245277-32)	1/25/24	13:30 Central		Water			X	X	X	X	X	X	X	X	X					2	
HEN_18&D (500-245277-33)	1/25/24	14:40 Central		Water			X	X	X	X	X	X	X	X	X					2	
HEN_45#S (500-245277-35)	1/25/24	11:45 Central		Water			X	X	X	X	X	X	X	X	X					2	
HEN_XPW01_PORE (500-245277-36)	1/25/24	08:45 Central		Water									X	X	X	X	X	X	X	2	
HEN_XPW02_PORE (500-245277-37)	1/25/24	09:30 Central		Water									X	X	X	X	X	X	X	2	
HEN_XPW03_PORE (500-245277-38)	1/25/24	10:30 Central		Water									X	X	X	X	X	X	X	2	

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Shri Scott	Date/Time: 1/26/24 1500	Company	Received by: FED EX
Relinquished by: FED EX	Date/Time:	Company	Received by: JAN 29 2024 09:25 Michael Vanhing
Relinquished by:	Date/Time:	Company	Received by:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Campbell, Donna L	Carrier Tracking No(s):	COC No: 500-184142.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Donna.Campbell@et.eurofinsus.com	State of Origin: Illinois	Page: Page 3 of 4
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-245277-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 2/6/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q1	Project #: 50022619			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 AJ	904.0/PrecSep_0 AJ	Ra226_228GFPC_P/ AJ	903.0/PrecSep_21 AQ	904.0/PrecSep_0 AQ	Ra226_228GFPC_P/ AQ	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	903.0/PrecSep_21 AL	904.0/PrecSep_0 AL	Ra226_228GFPC_P/ AL	903.0/PrecSep_21 AS	Total Number of containers	Special Instructions/Note:
			Preservation Code:																		
HEN_07 (500-245277-39)	1/26/24	08:50 Central		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	2	
HEN_08 (500-245277-40)	1/26/24	08:20 Central		Water			X	X	X	X	X	X	X	X	X	X	X	X	X	2	

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

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: FED EX	Date/Time: 1/26/24 1500	Company	Received by: FED EX 09:25 JAN 29 2024 mikhaowilliams
Relinquished by: FED EX	Date/Time:	Company	Received by: Date/Time: Company: ETMSL
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-245277-2
SDG Number: HEN_000_RAD

Login Number: 245277
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1,3.2,2.3,3.9,5.2,5.1,4.4,4.1,3.3,2.6,2.7,4.4
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: 500-245277-2
SDG Number: HEN_000_RAD

Login Number: 245277
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 01/25/24 01:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: 500-245277-2
SDG Number: HEN_000_RAD

Login Number: 245277
List Number: 4
Creator: Thornley, Richard W

List Source: Eurofins St. Louis
List Creation: 01/26/24 02:19 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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: 500-245277-2
SDG Number: HEN_000_RAD

Login Number: 245277
List Number: 6
Creator: Korrinhizer, Micha L

List Source: Eurofins St. Louis
List Creation: 01/29/24 11:23 AM

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

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)						
Lab Sample ID	Client Sample ID	Ba (30-110)						
500-245277-1	HEN_21R	61.8						
500-245277-1 MS	HEN_21R_MS	39.4						
500-245277-1 MSD	HEN_21R_MSD	76.3						
500-245277-2	HEN_22	90.1						
500-245277-3	HEN_22&D	81.7						
500-245277-4	HEN_27	78.4						
500-245277-5	HEN_32	81.2						
500-245277-6	HEN_34	77.9						
500-245277-7	HEN_35	73.0						
500-245277-8	HEN_35_FD	82.7						
500-245277-9	HEN_49	55.0						
500-245277-9 MS	HEN_49_MS	47.1						
500-245277-9 MSD	HEN_49_MSD	87.0						
500-245277-10	HEN_50	80.2						
500-245277-13	HEN_12	96.2						
500-245277-14	HEN_13	90.6						
500-245277-15	HEN_16	95.9						
500-245277-16	HEN_16_FD	93.9						
500-245277-17	HEN_17	92.4						
500-245277-18	HEN_23	84.2						
500-245277-19	HEN_46	95.4						
500-245277-20	HEN_47	101						
500-245277-21	HEN_51	85.8						
500-245277-22	HEN_52	96.2						
500-245277-23	HEN_54	98.5						
500-245277-24	HEN_54_FD	85.0						
500-245277-25	HEN_FB	92.4						
500-245277-26	HEN_03R	96.4						
500-245277-27	HEN_03R_FD	98.5						
500-245277-30	HEN_08&D	88.0						
500-245277-32	HEN_18#S	87.0						
500-245277-33	HEN_18&D	89.6						
500-245277-35	HEN_45#S	85.0						
500-245277-36	HEN_XPW01_PORE	34.1						
500-245277-37	HEN_XPW02_PORE	90.1						
500-245277-38	HEN_XPW03_PORE	94.9						
500-245277-39	HEN_07	98.2						
500-245277-40	HEN_08	88.0						
LCS 160-645975/2-A	Lab Control Sample	96.9						
LCS 160-645979/2-A	Lab Control Sample	93.4						
LCS 160-646070/2-A	Lab Control Sample	86.3						
MB 160-645975/1-A	Method Blank	97.2						
MB 160-645979/1-A	Method Blank	83.7						
MB 160-646070/1-A	Method Blank	88.0						

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q1

Job ID: 500-245277-2
SDG: HEN_000_RAD

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-245277-1	HEN_21R	61.8	84.1
500-245277-1 MS	HEN_21R_MS	39.4	77.4
500-245277-1 MSD	HEN_21R_MSD	76.3	71.4
500-245277-2	HEN_22	90.1	82.2
500-245277-3	HEN_22&D	81.7	76.6
500-245277-4	HEN_27	78.4	78.5
500-245277-5	HEN_32	81.2	76.3
500-245277-6	HEN_34	77.9	79.6
500-245277-7	HEN_35	73.0	71.0
500-245277-8	HEN_35_FD	82.7	78.9
500-245277-9	HEN_49	55.0	80.0
500-245277-9 MS	HEN_49_MS	47.1	75.9
500-245277-9 MSD	HEN_49_MSD	87.0	80.0
500-245277-10	HEN_50	80.2	75.1
500-245277-13	HEN_12	96.2	81.5
500-245277-14	HEN_13	90.6	84.9
500-245277-15	HEN_16	95.9	86.7
500-245277-16	HEN_16_FD	93.9	85.2
500-245277-17	HEN_17	92.4	84.5
500-245277-18	HEN_23	84.2	87.1
500-245277-19	HEN_46	95.4	81.1
500-245277-20	HEN_47	101	85.6
500-245277-21	HEN_51	85.8	81.1
500-245277-22	HEN_52	96.2	85.2
500-245277-23	HEN_54	98.5	75.9
500-245277-24	HEN_54_FD	85.0	80.4
500-245277-25	HEN_FB	92.4	84.9
500-245277-26	HEN_03R	96.4	87.5
500-245277-27	HEN_03R_FD	98.5	90.8
500-245277-30	HEN_08&D	88.0	93.8
500-245277-32	HEN_18#S	87.0	81.5
500-245277-33	HEN_18&D	89.6	84.9
500-245277-35	HEN_45#S	85.0	89.7
500-245277-36	HEN_XPW01_PORE	34.1	83.4
500-245277-37	HEN_XPW02_PORE	90.1	84.1
500-245277-38	HEN_XPW03_PORE	94.9	84.5
500-245277-39	HEN_07	98.2	81.9
500-245277-40	HEN_08	88.0	87.5
LCS 160-645976/2-A	Lab Control Sample	96.9	84.1
LCS 160-645980/2-A	Lab Control Sample	93.4	83.4
LCS 160-646071/2-A	Lab Control Sample	86.3	87.9
MB 160-645976/1-A	Method Blank	97.2	84.5
MB 160-645980/1-A	Method Blank	83.7	82.6
MB 160-646071/1-A	Method Blank	88.0	88.2

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 05/13/24 13:42:34

JOB DESCRIPTION

HEN-24Q2
HEN_257_803

JOB NUMBER

500-249028-7

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

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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Case Narrative

Client: Vistra Energy Corp
Project: HEN-24Q2

Job ID: 500-249028-7

Job ID: 500-249028-7 — Eurofins Chicago

Job Narrative
500-249028-7

Receipt
The samples were received on 04/16/24 11:25. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 3.3º C, 4.0º C, 4.2º C, 4.6º C, 4.8º C, 4.8º C, 5.2º C, 5.4º C and 5.6º C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Added to COC and logged in. HEN_TB1 (500-249028-25) and HEN_TB2 (500-249028-26)

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed for sample: HEN_02 (500-249028-13) COC received with sampling time of 1330. Field Data form stated sampling time was 1320. Per field sampler, correct sampling time is 1320.

Metals
Method 200.7 Rev 4.4: The initial low level calibration verification (ICVL) result for batch 765585 was above the 95-105% upper control limit. The affected analyte is: Li (107%). Sample results were below the reporting limit and have been reported as qualified data.

Method 6020B: The linear range check standard (LRC) for batch 765372 recovered low for Be. The high standard read back was within control limits. Sample results were below the high standard and have been qualified and reported. (LRC 500-765372/13)

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

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

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_12 — Lab Sample ID: 500-249028-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00023	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.072		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.21		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	96		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.012		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Selenium	0.0014	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Chloride	68		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	76		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	590		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.19		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	48.79				ft	1		Field Sampling	Total/NA
Field pH	7.25				SU	1		Field Sampling	Total/NA
Field Temperature	17.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	114.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.04				mg/L	1		Field Sampling	Total/NA
Specific Conductance	999				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.20				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_13 — Lab Sample ID: 500-249028-6

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	0.00037	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.053		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.24		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	92		0.20	0.044	mg/L	1		6020B	Total Recoverable
Lead	0.00021	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Molybdenum	0.011		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Selenium	0.0011	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Chloride	71		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	76		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	570		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.19		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	48.82				ft	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	17.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	107.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.35				mg/L	1		Field Sampling	Total/NA
Specific Conductance	998				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_13 (Continued) — Lab Sample ID: 500-249028-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	0.56				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_46 — Lab Sample ID: 500-249028-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.013		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.076		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.30		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	91		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0011	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Molybdenum	0.015		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Selenium	0.0014	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Chloride	66		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	79		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	530		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)	48.96				ft	1		Field Sampling	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Temperature	16.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	151.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.63				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1320				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.92				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_47 — Lab Sample ID: 500-249028-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.011		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.092		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.26		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	100		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.024		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Selenium	0.0040		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Chloride	68		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	73		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	560		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.28		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.22				ft	1		Field Sampling	Total/NA
Field pH	7.09				SU	1		Field Sampling	Total/NA
Field Temperature	18.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	148.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.22				mg/L	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_47 (Continued) — Lab Sample ID: 500-249028-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Specific Conductance	1358				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.74				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_07 — Lab Sample ID: 500-249028-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0080		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.099		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.073		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	120		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0012	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0068		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Chloride	49		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	60		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	560		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)	66.82				ft	1		Field Sampling	Total/NA
Field pH	6.97				SU	1		Field Sampling	Total/NA
Field Temperature	12.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	154.0				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.12				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1036				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.24				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08 — Lab Sample ID: 500-249028-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.016		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.12		0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00050		0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	170		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0033		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00048	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	190		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	110		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	1100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.093	J	0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.23				ft	1		Field Sampling	Total/NA
Field pH	6.76				SU	1		Field Sampling	Total/NA
Field Temperature	14.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	166.9				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_08 (Continued) — Lab Sample ID: 500-249028-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	2.30				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1879				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.55				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08&D — Lab Sample ID: 500-249028-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0094		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.099		0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.0011		0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	200		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0068		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00093		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Chloride	310		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	190		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	1400		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.11		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.66				ft	1		Field Sampling	Total/NA
Field pH	6.72				SU	1		Field Sampling	Total/NA
Field Temperature	13.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	154.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.08				mg/L	1		Field Sampling	Total/NA
Specific Conductance	3232				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.49				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16 — Lab Sample ID: 500-249028-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.059		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.084		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	73		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0062		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Mercury	0.000095	J	0.00020	0.000076	mg/L	1		7470A	Total/NA
Chloride	61		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	51		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	420		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.24		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.85				ft	1		Field Sampling	Total/NA
Field pH	7.41				SU	1		Field Sampling	Total/NA
Field Temperature	13.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	149.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.10				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1051				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_16 (Continued) — Lab Sample ID: 500-249028-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	0.72				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16_FD — Lab Sample ID: 500-249028-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0020	J ^1+	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.058		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.079		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	73		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0061		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	62		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	52		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	420		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.23		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.85				ft	1		Field Sampling	Total/NA
Field pH	7.41				SU	1		Field Sampling	Total/NA
Field Temperature	13.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	149.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.10				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1051				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.72				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_17 — Lab Sample ID: 500-249028-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0031	J ^1+	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.077		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.087		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	68		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0031	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Chloride	59		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	55		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	420		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.18		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.94				ft	1		Field Sampling	Total/NA
Field pH	7.33				SU	1		Field Sampling	Total/NA
Field Temperature	14.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	154.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	7.42				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1053				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.22				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_52 — Lab Sample ID: 500-249028-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0046	J ^1+	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.078		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.44		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	81		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.017		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Selenium	0.0024	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Chloride	70		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	71		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	540		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.31		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.45				ft	1		Field Sampling	Total/NA
Field pH	7.23				SU	1		Field Sampling	Total/NA
Field Temperature	18.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	133.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.36				mg/L	1		Field Sampling	Total/NA
Specific Conductance	946				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.70				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_54 — Lab Sample ID: 500-249028-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.29		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00024	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.056		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.58		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	86		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.025		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Selenium	0.0028		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Mercury	0.0017		0.00020	0.000076	mg/L	1		7470A	Total/NA
Chloride	71		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	88		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	580		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.27		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	50.72				ft	1		Field Sampling	Total/NA
Field pH	7.31				SU	1		Field Sampling	Total/NA
Field Temperature	17.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	152.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1340				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.61				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_54_FD — Lab Sample ID: 500-249028-23

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	0.00023	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.056		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.57		0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	88		0.20	0.044	mg/L	1		6020B	Total Recoverable
Molybdenum	0.026		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Selenium	0.0029		0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Chloride	71		10	1.2	mg/L	10		300.0	Total/NA
Sulfate	89		10	2.1	mg/L	10		300.0	Total/NA
Total Dissolved Solids	560		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.27		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	50.72				ft	1		Field Sampling	Total/NA
Field pH	7.31				SU	1		Field Sampling	Total/NA
Field Temperature	17.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	152.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1340				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.61				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_55 — Lab Sample ID: 500-249028-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	49.47				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_XSG01 — Lab Sample ID: 500-249028-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	10.42				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_YSG_ILRIVER — Lab Sample ID: 500-249028-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	19.85				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
300.0	Anions, Ion Chromatography	EPA	EET CHI
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CHI
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: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-249028-5	HEN_12	Water	04/15/24 18:15	04/16/24 11:25
500-249028-6	HEN_13	Water	04/15/24 17:25	04/16/24 11:25
500-249028-11	HEN_46	Water	04/15/24 18:00	04/16/24 11:25
500-249028-12	HEN_47	Water	04/15/24 17:10	04/16/24 11:25
500-249028-14	HEN_07	Water	04/16/24 10:05	04/16/24 16:30
500-249028-15	HEN_08	Water	04/16/24 11:00	04/16/24 16:30
500-249028-16	HEN_08&D	Water	04/16/24 10:10	04/16/24 16:30
500-249028-18	HEN_16	Water	04/16/24 11:00	04/16/24 16:30
500-249028-19	HEN_16_FD	Water	04/16/24 11:05	04/16/24 16:30
500-249028-20	HEN_17	Water	04/16/24 11:50	04/16/24 16:30
500-249028-21	HEN_52	Water	04/16/24 12:20	04/16/24 16:30
500-249028-22	HEN_54	Water	04/16/24 12:35	04/16/24 16:30
500-249028-23	HEN_54_FD	Water	04/16/24 12:35	04/16/24 16:30
500-249028-30	HEN_55	Water	04/15/24 10:10	04/30/24 11:09
500-249028-31	HEN_XSG01	Water	04/15/24 09:55	04/30/24 11:09
500-249028-32	HEN_YSG_ILRIVER	Water	04/15/24 11:45	04/30/24 11:09

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_12
Date Collected: 04/15/24 18:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.014**		0.0050	0.0020	mg/L		04/24/24 16:44	04/25/24 13:03	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		04/25/24 09:20	04/26/24 15:31	1
Arsenic	**0.00023**	**J**	0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 15:31	1
Barium	**0.072**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 15:31	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 15:31	1
Boron	**0.21**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 15:31	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 15:31	1
Calcium	**96**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 15:31	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 15:31	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 15:31	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 15:31	1
Molybdenum	**0.012**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 15:31	1
Selenium	**0.0014**	**J**	0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 15:31	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 15:31	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		04/29/24 10:55	04/30/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**68**		10	1.2	mg/L			05/06/24 15:05	10
Sulfate (EPA 300.0)	**76**		10	2.1	mg/L			05/06/24 15:05	10
Total Dissolved Solids (SM 2540C)	**590**		10	4.3	mg/L			04/16/24 21:36	1
Fluoride (SM 4500 F C)	**0.19**		0.10	0.056	mg/L			05/03/24 13:06	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**48.79**				ft			04/15/24 18:15	1
Field pH	**7.25**				SU			04/15/24 18:15	1
Field Temperature	**17.6**				Degrees C			04/15/24 18:15	1
Oxidation Reduction Potential	**114.1**				millivolts			04/15/24 18:15	1
Oxygen, Dissolved	**3.04**				mg/L			04/15/24 18:15	1
Specific Conductance	**999**				umhos/cm			04/15/24 18:15	1
Turbidity	**1.20**				NTU			04/15/24 18:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_13
Date Collected: 04/15/24 17:25
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.018**		0.0050	0.0020	mg/L		04/24/24 16:44	04/25/24 13:07	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		04/25/24 09:20	04/26/24 15:33	1
Arsenic	**0.00037**	**J**	0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 15:33	1
Barium	**0.053**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 15:33	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 15:33	1
Boron	**0.24**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 15:33	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 15:33	1
Calcium	**92**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 15:33	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 15:33	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 15:33	1
Lead	**0.00021**	**J**	0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 15:33	1
Molybdenum	**0.011**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 15:33	1
Selenium	**0.0011**	**J**	0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 15:33	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 15:33	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		04/29/24 10:55	04/30/24 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**71**		10	1.2	mg/L			05/06/24 15:20	10
Sulfate (EPA 300.0)	**76**		10	2.1	mg/L			05/06/24 15:20	10
Total Dissolved Solids (SM 2540C)	**570**		10	4.3	mg/L			04/16/24 21:38	1
Fluoride (SM 4500 F C)	**0.19**		0.10	0.056	mg/L			05/03/24 13:21	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**48.82**				ft			04/15/24 17:25	1
Field pH	**7.33**				SU			04/15/24 17:25	1
Field Temperature	**17.9**				Degrees C			04/15/24 17:25	1
Oxidation Reduction Potential	**107.1**				millivolts			04/15/24 17:25	1
Oxygen, Dissolved	**2.35**				mg/L			04/15/24 17:25	1
Specific Conductance	**998**				umhos/cm			04/15/24 17:25	1
Turbidity	**0.56**				NTU			04/15/24 17:25	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_46
Date Collected: 04/15/24 18:00
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.013**		0.0050	0.0020	mg/L		04/24/24 16:44	04/25/24 13:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 15:48	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 15:48	1
Barium	**0.076**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 15:48	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 15:48	1
Boron	**0.30**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 15:48	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 15:48	1
Calcium	**91**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 15:48	1
Chromium	**0.0011**	**J**	0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 15:48	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 15:48	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 15:48	1
Molybdenum	**0.015**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 15:48	1
Selenium	**0.0014**	**J**	0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 15:48	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 15:48	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		04/29/24 10:55	04/30/24 09:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**66**		10	1.2	mg/L			05/06/24 16:36	10
Sulfate (EPA 300.0)	**79**		10	2.1	mg/L			05/06/24 16:36	10
Total Dissolved Solids (SM 2540C)	**530**		10	4.3	mg/L			04/16/24 22:21	1
Fluoride (SM 4500 F C)	**0.21**		0.10	0.056	mg/L			05/01/24 15:22	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**48.96**				ft			04/15/24 18:00	1
Field pH	**7.29**				SU			04/15/24 18:00	1
Field Temperature	**16.9**				Degrees C			04/15/24 18:00	1
Oxidation Reduction Potential	**151.2**				millivolts			04/15/24 18:00	1
Oxygen, Dissolved	**2.63**				mg/L			04/15/24 18:00	1
Specific Conductance	**1320**				umhos/cm			04/15/24 18:00	1
Turbidity	**0.92**				NTU			04/15/24 18:00	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_47
Date Collected: 04/15/24 17:10
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.011**		0.0050	0.0020	mg/L		04/25/24 17:17	04/26/24 12:03	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		04/25/24 09:20	04/26/24 16:07	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:07	1
Barium	**0.092**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:07	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:07	1
Boron	**0.26**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:07	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:07	1
Calcium	**100**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:07	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:07	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:07	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:07	1
Molybdenum	**0.024**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:07	1
Selenium	**0.0040**		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:07	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:07	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		04/29/24 10:55	04/30/24 09:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**68**		10	1.2	mg/L			05/06/24 16:51	10
Sulfate (EPA 300.0)	**73**		10	2.1	mg/L			05/06/24 16:51	10
Total Dissolved Solids (SM 2540C)	**560**		10	4.3	mg/L			04/16/24 22:21	1
Fluoride (SM 4500 F C)	**0.28**		0.10	0.056	mg/L			05/01/24 15:27	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.22**				ft			04/15/24 17:10	1
Field pH	**7.09**				SU			04/15/24 17:10	1
Field Temperature	**18.1**				Degrees C			04/15/24 17:10	1
Oxidation Reduction Potential	**148.4**				millivolts			04/15/24 17:10	1
Oxygen, Dissolved	**2.22**				mg/L			04/15/24 17:10	1
Specific Conductance	**1358**				umhos/cm			04/15/24 17:10	1
Turbidity	**0.74**				NTU			04/15/24 17:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_07
Date Collected: 04/16/24 10:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0080**		0.0050	0.0020	mg/L		04/25/24 17:17	04/26/24 12:16	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		04/25/24 09:20	04/26/24 16:09	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:09	1
Barium	**0.099**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:09	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:09	1
Boron	**0.073**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:09	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:09	1
Calcium	**120**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:09	1
Chromium	**0.0012**	**J**	0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:09	1
Cobalt	**0.0068**		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:09	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:09	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:09	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:09	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:09	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		04/29/24 10:55	04/30/24 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**49**		10	1.2	mg/L			05/06/24 17:36	10
Sulfate (EPA 300.0)	**60**		10	2.1	mg/L			05/06/24 17:36	10
Total Dissolved Solids (SM 2540C)	**560**		10	4.3	mg/L			04/18/24 03:34	1
Fluoride (SM 4500 F C)	**0.13**		0.10	0.056	mg/L			05/03/24 13:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**66.82**				ft			04/16/24 10:05	1
Field pH	**6.97**				SU			04/16/24 10:05	1
Field Temperature	**12.8**				Degrees C			04/16/24 10:05	1
Oxidation Reduction Potential	**154.0**				millivolts			04/16/24 10:05	1
Oxygen, Dissolved	**5.12**				mg/L			04/16/24 10:05	1
Specific Conductance	**1036**				umhos/cm			04/16/24 10:05	1
Turbidity	**2.24**				NTU			04/16/24 10:05	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_08
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.016**		0.0050	0.0020	mg/L		04/25/24 17:17	04/26/24 12:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 16:11	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:11	1
Barium	**0.12**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:11	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:11	1
Boron	**0.12**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:11	1
Cadmium	**0.00050**		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:11	1
Calcium	**170**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:11	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:11	1
Cobalt	**0.0033**		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:11	1
Lead	**0.00048**	**J**	0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:11	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:11	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:11	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:11	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		04/29/24 10:55	04/30/24 09:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**190**		10	1.2	mg/L			05/06/24 17:52	10
Sulfate (EPA 300.0)	**110**		10	2.1	mg/L			05/06/24 17:52	10
Total Dissolved Solids (SM 2540C)	**1100**		10	4.3	mg/L			04/18/24 03:37	1
Fluoride (SM 4500 F C)	**0.093**	**J**	0.10	0.056	mg/L			05/03/24 13:49	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.23**				ft			04/16/24 11:00	1
Field pH	**6.76**				SU			04/16/24 11:00	1
Field Temperature	**14.6**				Degrees C			04/16/24 11:00	1
Oxidation Reduction Potential	**166.9**				millivolts			04/16/24 11:00	1
Oxygen, Dissolved	**2.30**				mg/L			04/16/24 11:00	1
Specific Conductance	**1879**				umhos/cm			04/16/24 11:00	1
Turbidity	**0.55**				NTU			04/16/24 11:00	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_08&D
Date Collected: 04/16/24 10:10
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0094**		0.0050	0.0020	mg/L		04/26/24 08:48	04/30/24 12:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 16:13	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:13	1
Barium	**0.12**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:13	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:13	1
Boron	**0.099**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:13	1
Cadmium	**0.0011**		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:13	1
Calcium	**200**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:13	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:13	1
Cobalt	**0.0068**		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:13	1
Lead	**0.00093**		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:13	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:13	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:13	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:13	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		04/29/24 10:55	04/30/24 09:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**310**		10	1.2	mg/L			05/06/24 18:07	10
Sulfate (EPA 300.0)	**190**		10	2.1	mg/L			05/06/24 18:07	10
Total Dissolved Solids (SM 2540C)	**1400**		10	4.3	mg/L			04/18/24 03:39	1
Fluoride (SM 4500 F C)	**0.11**		0.10	0.056	mg/L			05/03/24 13:54	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.66**				ft			04/16/24 10:10	1
Field pH	**6.72**				SU			04/16/24 10:10	1
Field Temperature	**13.8**				Degrees C			04/16/24 10:10	1
Oxidation Reduction Potential	**154.4**				millivolts			04/16/24 10:10	1
Oxygen, Dissolved	**1.08**				mg/L			04/16/24 10:10	1
Specific Conductance	**3232**				umhos/cm			04/16/24 10:10	1
Turbidity	**3.49**				NTU			04/16/24 10:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_16
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050	^1+	0.0050	0.0020	mg/L		04/26/24 08:48	04/29/24 17:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 16:17	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:17	1
Barium	**0.059**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:17	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:17	1
Boron	**0.084**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:17	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:17	1
Calcium	**73**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:17	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:17	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:17	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:17	1
Molybdenum	**0.0062**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:17	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:17	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:17	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.000095**	**J**	0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 09:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**61**		10	1.2	mg/L			05/06/24 19:38	10
Sulfate (EPA 300.0)	**51**		10	2.1	mg/L			05/06/24 19:38	10
Total Dissolved Solids (SM 2540C)	**420**		10	4.3	mg/L			04/18/24 22:48	1
Fluoride (SM 4500 F C)	**0.24**		0.10	0.056	mg/L			05/01/24 16:04	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.85**				ft			04/16/24 11:00	1
Field pH	**7.41**				SU			04/16/24 11:00	1
Field Temperature	**13.5**				Degrees C			04/16/24 11:00	1
Oxidation Reduction Potential	**149.2**				millivolts			04/16/24 11:00	1
Oxygen, Dissolved	**7.10**				mg/L			04/16/24 11:00	1
Specific Conductance	**1051**				umhos/cm			04/16/24 11:00	1
Turbidity	**0.72**				NTU			04/16/24 11:00	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_16_FD
Date Collected: 04/16/24 11:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0020**	**J ^1+**	0.0050	0.0020	mg/L		04/26/24 08:48	04/29/24 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 16:19	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:19	1
Barium	**0.058**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:19	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:19	1
Boron	**0.079**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:19	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:19	1
Calcium	**73**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:19	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:19	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:19	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:19	1
Molybdenum	**0.0061**		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:19	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:19	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:19	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		04/29/24 10:55	04/30/24 09:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**62**		10	1.2	mg/L			05/06/24 20:54	10
Sulfate (EPA 300.0)	**52**		10	2.1	mg/L			05/06/24 20:54	10
Total Dissolved Solids (SM 2540C)	**420**		10	4.3	mg/L			04/18/24 22:50	1
Fluoride (SM 4500 F C)	**0.23**		0.10	0.056	mg/L			05/01/24 16:08	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.85**				ft			04/16/24 11:05	1
Field pH	**7.41**				SU			04/16/24 11:05	1
Field Temperature	**13.5**				Degrees C			04/16/24 11:05	1
Oxidation Reduction Potential	**149.2**				millivolts			04/16/24 11:05	1
Oxygen, Dissolved	**7.10**				mg/L			04/16/24 11:05	1
Specific Conductance	**1051**				umhos/cm			04/16/24 11:05	1
Turbidity	**0.72**				NTU			04/16/24 11:05	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_17
Date Collected: 04/16/24 11:50
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0031**	**J ^1+**	0.0050	0.0020	mg/L		04/26/24 08:48	04/29/24 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 16:22	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 16:22	1
Barium	**0.077**		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 16:22	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 16:22	1
Boron	**0.087**		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 16:22	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 16:22	1
Calcium	**68**		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 16:22	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 16:22	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 16:22	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 16:22	1
Molybdenum	**0.0031**	**J**	0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 16:22	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 16:22	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 16:22	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		04/29/24 10:55	04/30/24 09:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**59**		10	1.2	mg/L			05/06/24 21:09	10
Sulfate (EPA 300.0)	**55**		10	2.1	mg/L			05/06/24 21:09	10
Total Dissolved Solids (SM 2540C)	**420**		10	4.3	mg/L			04/18/24 22:53	1
Fluoride (SM 4500 F C)	**0.18**		0.10	0.056	mg/L			05/01/24 16:23	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.94**				ft			04/16/24 11:50	1
Field pH	**7.33**				SU			04/16/24 11:50	1
Field Temperature	**14.8**				Degrees C			04/16/24 11:50	1
Oxidation Reduction Potential	**154.2**				millivolts			04/16/24 11:50	1
Oxygen, Dissolved	**7.42**				mg/L			04/16/24 11:50	1
Specific Conductance	**1053**				umhos/cm			04/16/24 11:50	1
Turbidity	**6.22**				NTU			04/16/24 11:50	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_52
Date Collected: 04/16/24 12:20
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-21
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0046**	**J ^1+**	0.0050	0.0020	mg/L		04/26/24 08:48	04/29/24 17:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:23	04/26/24 14:16	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:23	04/26/24 14:16	1
Barium	**0.078**		0.0025	0.00073	mg/L		04/25/24 09:23	04/26/24 14:16	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:23	04/26/24 14:16	1
Boron	**0.44**		0.050	0.013	mg/L		04/25/24 09:23	04/29/24 13:02	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:23	04/26/24 14:16	1
Calcium	**81**		0.20	0.044	mg/L		04/25/24 09:23	04/26/24 14:16	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:23	04/26/24 14:16	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:23	04/26/24 14:16	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:23	04/26/24 14:16	1
Molybdenum	**0.017**		0.0050	0.0025	mg/L		04/25/24 09:23	04/26/24 14:16	1
Selenium	**0.0024**	**J**	0.0025	0.00098	mg/L		04/25/24 09:23	04/26/24 14:16	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:23	04/26/24 14:16	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		04/29/24 10:55	04/30/24 09:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**70**		10	1.2	mg/L			05/06/24 21:24	10
Sulfate (EPA 300.0)	**71**		10	2.1	mg/L			05/06/24 21:24	10
Total Dissolved Solids (SM 2540C)	**540**		10	4.3	mg/L			04/18/24 22:55	1
Fluoride (SM 4500 F C)	**0.31**		0.10	0.056	mg/L			05/01/24 16:28	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.45**				ft			04/16/24 12:20	1
Field pH	**7.23**				SU			04/16/24 12:20	1
Field Temperature	**18.4**				Degrees C			04/16/24 12:20	1
Oxidation Reduction Potential	**133.6**				millivolts			04/16/24 12:20	1
Oxygen, Dissolved	**2.36**				mg/L			04/16/24 12:20	1
Specific Conductance	**946**				umhos/cm			04/16/24 12:20	1
Turbidity	**1.70**				NTU			04/16/24 12:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_54
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-22
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.29**		0.0050	0.0020	mg/L		04/26/24 08:48	04/30/24 12:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:23	04/26/24 14:19	1
Arsenic	**0.00024**	**J**	0.0010	0.00023	mg/L		04/25/24 09:23	04/26/24 14:19	1
Barium	**0.056**		0.0025	0.00073	mg/L		04/25/24 09:23	04/26/24 14:19	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:23	04/26/24 14:19	1
Boron	**0.58**		0.050	0.013	mg/L		04/25/24 09:23	04/29/24 13:04	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:23	04/26/24 14:19	1
Calcium	**86**		0.20	0.044	mg/L		04/25/24 09:23	04/26/24 14:19	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:23	04/26/24 14:19	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:23	04/26/24 14:19	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:23	04/26/24 14:19	1
Molybdenum	**0.025**		0.0050	0.0025	mg/L		04/25/24 09:23	04/26/24 14:19	1
Selenium	**0.0028**		0.0025	0.00098	mg/L		04/25/24 09:23	04/26/24 14:19	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:23	04/26/24 14:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0017**		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 07:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**71**		10	1.2	mg/L			05/06/24 21:39	10
Sulfate (EPA 300.0)	**88**		10	2.1	mg/L			05/06/24 21:39	10
Total Dissolved Solids (SM 2540C)	**580**		10	4.3	mg/L			04/18/24 22:58	1
Fluoride (SM 4500 F C)	**0.27**		0.10	0.056	mg/L			05/01/24 16:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**50.72**				ft			04/16/24 12:35	1
Field pH	**7.31**				SU			04/16/24 12:35	1
Field Temperature	**17.7**				Degrees C			04/16/24 12:35	1
Oxidation Reduction Potential	**152.5**				millivolts			04/16/24 12:35	1
Oxygen, Dissolved	**1.07**				mg/L			04/16/24 12:35	1
Specific Conductance	**1340**				umhos/cm			04/16/24 12:35	1
Turbidity	**1.61**				NTU			04/16/24 12:35	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_54_FD
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-23
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.018**		0.0050	0.0020	mg/L		04/26/24 08:48	04/30/24 12:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:23	04/26/24 14:21	1
Arsenic	**0.00023**	**J**	0.0010	0.00023	mg/L		04/25/24 09:23	04/26/24 14:21	1
Barium	**0.056**		0.0025	0.00073	mg/L		04/25/24 09:23	04/26/24 14:21	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:23	04/26/24 14:21	1
Boron	**0.57**		0.050	0.013	mg/L		04/25/24 09:23	04/29/24 13:07	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:23	04/26/24 14:21	1
Calcium	**88**		0.20	0.044	mg/L		04/25/24 09:23	04/26/24 14:21	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:23	04/26/24 14:21	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:23	04/26/24 14:21	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:23	04/26/24 14:21	1
Molybdenum	**0.026**		0.0050	0.0025	mg/L		04/25/24 09:23	04/26/24 14:21	1
Selenium	**0.0029**		0.0025	0.00098	mg/L		04/25/24 09:23	04/26/24 14:21	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:23	04/26/24 14:21	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		04/29/24 10:55	04/30/24 07:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**71**		10	1.2	mg/L			05/06/24 21:54	10
Sulfate (EPA 300.0)	**89**		10	2.1	mg/L			05/06/24 21:54	10
Total Dissolved Solids (SM 2540C)	**560**		10	4.3	mg/L			04/18/24 23:01	1
Fluoride (SM 4500 F C)	**0.27**		0.10	0.056	mg/L			05/01/24 16:37	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**50.72**				ft			04/16/24 12:35	1
Field pH	**7.31**				SU			04/16/24 12:35	1
Field Temperature	**17.7**				Degrees C			04/16/24 12:35	1
Oxidation Reduction Potential	**152.5**				millivolts			04/16/24 12:35	1
Oxygen, Dissolved	**1.07**				mg/L			04/16/24 12:35	1
Specific Conductance	**1340**				umhos/cm			04/16/24 12:35	1
Turbidity	**1.61**				NTU			04/16/24 12:35	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_55
Date Collected: 04/15/24 10:10
Date Received: 04/30/24 11:09

Lab Sample ID: 500-249028-30
Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	49.47				ft			04/15/24 10:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_XSG01

Date Collected: 04/15/24 09:55
Date Received: 04/30/24 11:09

Lab Sample ID: 500-249028-31

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	10.42				ft			04/15/24 09:55	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_YSG_ILRIVER
Date Collected: 04/15/24 11:45
Date Received: 04/30/24 11:09

Lab Sample ID: 500-249028-32
Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	19.85				ft			04/15/24 11:45	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

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: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Metals

Prep Batch: 764775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total Recoverable	Water	200.7	
500-249028-6	HEN_13	Total Recoverable	Water	200.7	
500-249028-11	HEN_46	Total Recoverable	Water	200.7	
MB 500-764775/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-764775/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-249028-11 MS	HEN_46	Total Recoverable	Water	200.7	
500-249028-11 DU	HEN_46	Total Recoverable	Water	200.7	

Prep Batch: 764893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total Recoverable	Water	3005A	
500-249028-6	HEN_13	Total Recoverable	Water	3005A	
500-249028-11	HEN_46	Total Recoverable	Water	3005A	
500-249028-12	HEN_47	Total Recoverable	Water	3005A	
500-249028-14	HEN_07	Total Recoverable	Water	3005A	
500-249028-15	HEN_08	Total Recoverable	Water	3005A	
500-249028-16	HEN_08&D	Total Recoverable	Water	3005A	
500-249028-18	HEN_16	Total Recoverable	Water	3005A	
500-249028-19	HEN_16_FD	Total Recoverable	Water	3005A	
500-249028-20	HEN_17	Total Recoverable	Water	3005A	
MB 500-764893/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-764893/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 764894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-21	HEN_52	Total Recoverable	Water	3005A	
500-249028-22	HEN_54	Total Recoverable	Water	3005A	
500-249028-23	HEN_54_FD	Total Recoverable	Water	3005A	
MB 500-764894/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-764894/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 764960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total Recoverable	Water	200.7 Rev 4.4	764775
500-249028-6	HEN_13	Total Recoverable	Water	200.7 Rev 4.4	764775
500-249028-11	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	764775
MB 500-764775/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	764775
LCS 500-764775/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	764775
500-249028-11 MS	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	764775
500-249028-11 DU	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	764775

Prep Batch: 765021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-12	HEN_47	Total Recoverable	Water	200.7	
500-249028-14	HEN_07	Total Recoverable	Water	200.7	
500-249028-15	HEN_08	Total Recoverable	Water	200.7	
MB 500-765021/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-765021/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-249028-15 MS	HEN_08	Total Recoverable	Water	200.7	
500-249028-15 DU	HEN_08	Total Recoverable	Water	200.7	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Metals

Prep Batch: 765119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-16	HEN_08&D	Total Recoverable	Water	200.7	
500-249028-18	HEN_16	Total Recoverable	Water	200.7	
500-249028-19	HEN_16_FD	Total Recoverable	Water	200.7	
500-249028-20	HEN_17	Total Recoverable	Water	200.7	
500-249028-21	HEN_52	Total Recoverable	Water	200.7	
500-249028-22	HEN_54	Total Recoverable	Water	200.7	
500-249028-23	HEN_54_FD	Total Recoverable	Water	200.7	
MB 500-765119/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-765119/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Analysis Batch: 765188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-12	HEN_47	Total Recoverable	Water	200.7 Rev 4.4	765021
500-249028-14	HEN_07	Total Recoverable	Water	200.7 Rev 4.4	765021
500-249028-15	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	765021
MB 500-765021/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	765021
LCS 500-765021/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	765021
500-249028-15 MS	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	765021
500-249028-15 DU	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	765021

Analysis Batch: 765372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total Recoverable	Water	6020B	764893
500-249028-6	HEN_13	Total Recoverable	Water	6020B	764893
500-249028-11	HEN_46	Total Recoverable	Water	6020B	764893
500-249028-12	HEN_47	Total Recoverable	Water	6020B	764893
500-249028-14	HEN_07	Total Recoverable	Water	6020B	764893
500-249028-15	HEN_08	Total Recoverable	Water	6020B	764893
500-249028-16	HEN_08&D	Total Recoverable	Water	6020B	764893
500-249028-18	HEN_16	Total Recoverable	Water	6020B	764893
500-249028-19	HEN_16_FD	Total Recoverable	Water	6020B	764893
500-249028-20	HEN_17	Total Recoverable	Water	6020B	764893
500-249028-21	HEN_52	Total Recoverable	Water	6020B	764894
500-249028-22	HEN_54	Total Recoverable	Water	6020B	764894
500-249028-23	HEN_54_FD	Total Recoverable	Water	6020B	764894
MB 500-764893/1-A	Method Blank	Total Recoverable	Water	6020B	764893
MB 500-764894/1-A	Method Blank	Total Recoverable	Water	6020B	764894
LCS 500-764893/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764893
LCS 500-764894/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764894

Prep Batch: 765382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	7470A	
500-249028-6	HEN_13	Total/NA	Water	7470A	
500-249028-11	HEN_46	Total/NA	Water	7470A	
500-249028-12	HEN_47	Total/NA	Water	7470A	
500-249028-14	HEN_07	Total/NA	Water	7470A	
500-249028-15	HEN_08	Total/NA	Water	7470A	
500-249028-16	HEN_08&D	Total/NA	Water	7470A	
500-249028-18	HEN_16	Total/NA	Water	7470A	
500-249028-19	HEN_16_FD	Total/NA	Water	7470A	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Metals (Continued)

Prep Batch: 765382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-20	HEN_17	Total/NA	Water	7470A	
500-249028-21	HEN_52	Total/NA	Water	7470A	
MB 500-765382/11-A	Method Blank	Total/NA	Water	7470A	
LCS 500-765382/12-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 765389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-22	HEN_54	Total/NA	Water	7470A	
500-249028-23	HEN_54_FD	Total/NA	Water	7470A	
MB 500-765389/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-765389/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 765568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-21	HEN_52	Total Recoverable	Water	6020B	764894
500-249028-22	HEN_54	Total Recoverable	Water	6020B	764894
500-249028-23	HEN_54_FD	Total Recoverable	Water	6020B	764894
MB 500-764894/1-A	Method Blank	Total Recoverable	Water	6020B	764894
LCS 500-764894/2-A	Lab Control Sample	Total Recoverable	Water	6020B	764894

Analysis Batch: 765585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-18	HEN_16	Total Recoverable	Water	200.7 Rev 4.4	765119
500-249028-19	HEN_16_FD	Total Recoverable	Water	200.7 Rev 4.4	765119
500-249028-20	HEN_17	Total Recoverable	Water	200.7 Rev 4.4	765119
500-249028-21	HEN_52	Total Recoverable	Water	200.7 Rev 4.4	765119

Analysis Batch: 765626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	7470A	765382
500-249028-6	HEN_13	Total/NA	Water	7470A	765382
500-249028-11	HEN_46	Total/NA	Water	7470A	765382
500-249028-12	HEN_47	Total/NA	Water	7470A	765382
500-249028-14	HEN_07	Total/NA	Water	7470A	765382
500-249028-15	HEN_08	Total/NA	Water	7470A	765382
500-249028-16	HEN_08&D	Total/NA	Water	7470A	765382
500-249028-18	HEN_16	Total/NA	Water	7470A	765382
500-249028-19	HEN_16_FD	Total/NA	Water	7470A	765382
500-249028-20	HEN_17	Total/NA	Water	7470A	765382
500-249028-21	HEN_52	Total/NA	Water	7470A	765382
500-249028-22	HEN_54	Total/NA	Water	7470A	765389
500-249028-23	HEN_54_FD	Total/NA	Water	7470A	765389
MB 500-765382/11-A	Method Blank	Total/NA	Water	7470A	765382
MB 500-765389/12-A	Method Blank	Total/NA	Water	7470A	765389
LCS 500-765382/12-A	Lab Control Sample	Total/NA	Water	7470A	765382
LCS 500-765389/13-A	Lab Control Sample	Total/NA	Water	7470A	765389

Analysis Batch: 765664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-16	HEN_08&D	Total Recoverable	Water	200.7 Rev 4.4	765119
500-249028-22	HEN_54	Total Recoverable	Water	200.7 Rev 4.4	765119

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Metals (Continued)

Analysis Batch: 765664 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-23	HEN_54_FD	Total Recoverable	Water	200.7 Rev 4.4	765119
MB 500-765119/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	765119
LCS 500-765119/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	765119

General Chemistry

Analysis Batch: 763450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	SM 2540C	
500-249028-6	HEN_13	Total/NA	Water	SM 2540C	
MB 500-763450/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-763450/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 763451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-11	HEN_46	Total/NA	Water	SM 2540C	
500-249028-12	HEN_47	Total/NA	Water	SM 2540C	
MB 500-763451/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-763451/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-249028-11 DU	HEN_46	Total/NA	Water	SM 2540C	

Analysis Batch: 763630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-14	HEN_07	Total/NA	Water	SM 2540C	
500-249028-15	HEN_08	Total/NA	Water	SM 2540C	
500-249028-16	HEN_08&D	Total/NA	Water	SM 2540C	
MB 500-763630/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-763630/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 763874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-18	HEN_16	Total/NA	Water	SM 2540C	
500-249028-19	HEN_16_FD	Total/NA	Water	SM 2540C	
500-249028-20	HEN_17	Total/NA	Water	SM 2540C	
500-249028-21	HEN_52	Total/NA	Water	SM 2540C	
500-249028-22	HEN_54	Total/NA	Water	SM 2540C	
500-249028-23	HEN_54_FD	Total/NA	Water	SM 2540C	
MB 500-763874/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-763874/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 765957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-11	HEN_46	Total/NA	Water	SM 4500 F C	
500-249028-12	HEN_47	Total/NA	Water	SM 4500 F C	
500-249028-18	HEN_16	Total/NA	Water	SM 4500 F C	
500-249028-19	HEN_16_FD	Total/NA	Water	SM 4500 F C	
500-249028-20	HEN_17	Total/NA	Water	SM 4500 F C	
500-249028-21	HEN_52	Total/NA	Water	SM 4500 F C	
500-249028-22	HEN_54	Total/NA	Water	SM 4500 F C	
500-249028-23	HEN_54_FD	Total/NA	Water	SM 4500 F C	
MB 500-765957/3	Method Blank	Total/NA	Water	SM 4500 F C	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

General Chemistry (Continued)

Analysis Batch: 765957 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-765957/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-765957/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-765957/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 766360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	300.0	
500-249028-6	HEN_13	Total/NA	Water	300.0	
500-249028-11	HEN_46	Total/NA	Water	300.0	
500-249028-12	HEN_47	Total/NA	Water	300.0	
500-249028-14	HEN_07	Total/NA	Water	300.0	
500-249028-15	HEN_08	Total/NA	Water	300.0	
500-249028-16	HEN_08&D	Total/NA	Water	300.0	
500-249028-18	HEN_16	Total/NA	Water	300.0	
500-249028-19	HEN_16_FD	Total/NA	Water	300.0	
500-249028-20	HEN_17	Total/NA	Water	300.0	
500-249028-21	HEN_52	Total/NA	Water	300.0	
500-249028-22	HEN_54	Total/NA	Water	300.0	
500-249028-23	HEN_54_FD	Total/NA	Water	300.0	
MB 500-766360/3	Method Blank	Total/NA	Water	300.0	
MB 500-766360/33	Method Blank	Total/NA	Water	300.0	
LCS 500-766360/34	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-766360/4	Lab Control Sample	Total/NA	Water	300.0	
500-249028-18 MS	HEN_16	Total/NA	Water	300.0	
500-249028-18 MSD	HEN_16	Total/NA	Water	300.0	

Analysis Batch: 766368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	SM 4500 F C	
500-249028-6	HEN_13	Total/NA	Water	SM 4500 F C	
500-249028-14	HEN_07	Total/NA	Water	SM 4500 F C	
500-249028-15	HEN_08	Total/NA	Water	SM 4500 F C	
500-249028-16	HEN_08&D	Total/NA	Water	SM 4500 F C	
MB 500-766368/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-766368/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 765661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-5	HEN_12	Total/NA	Water	Field Sampling	
500-249028-6	HEN_13	Total/NA	Water	Field Sampling	
500-249028-11	HEN_46	Total/NA	Water	Field Sampling	
500-249028-12	HEN_47	Total/NA	Water	Field Sampling	
500-249028-14	HEN_07	Total/NA	Water	Field Sampling	
500-249028-15	HEN_08	Total/NA	Water	Field Sampling	
500-249028-16	HEN_08&D	Total/NA	Water	Field Sampling	
500-249028-18	HEN_16	Total/NA	Water	Field Sampling	
500-249028-19	HEN_16_FD	Total/NA	Water	Field Sampling	
500-249028-20	HEN_17	Total/NA	Water	Field Sampling	
500-249028-21	HEN_52	Total/NA	Water	Field Sampling	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Field Service / Mobile Lab (Continued)

Analysis Batch: 765661 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-22	HEN_54	Total/NA	Water	Field Sampling	
500-249028-23	HEN_54_FD	Total/NA	Water	Field Sampling	

Analysis Batch: 765820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-30	HEN_55	Total/NA	Water	Field Sampling	
500-249028-31	HEN_XSG01	Total/NA	Water	Field Sampling	
500-249028-32	HEN_YSG_ILRIVER	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-764775/1-A
Matrix: Water
Analysis Batch: 764960

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		04/24/24 16:44	04/25/24 12:30	1

Lab Sample ID: LCS 500-764775/2-A
Matrix: Water
Analysis Batch: 764960

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.266		mg/L		106	85 - 115

Lab Sample ID: 500-249028-11 MS
Matrix: Water
Analysis Batch: 764960

Client Sample ID: HEN_46
Prep Type: Total Recoverable
Prep Batch: 764775

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.013		0.250	0.293		mg/L		112	70 - 130

Lab Sample ID: 500-249028-11 DU
Matrix: Water
Analysis Batch: 764960

Client Sample ID: HEN_46
Prep Type: Total Recoverable
Prep Batch: 764775

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.013		0.0134		mg/L		6	20

Lab Sample ID: MB 500-765021/1-A
Matrix: Water
Analysis Batch: 765188

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 765021

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		04/25/24 17:17	04/26/24 11:25	1

Lab Sample ID: LCS 500-765021/2-A
Matrix: Water
Analysis Batch: 765188

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 765021

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.240		mg/L		96	85 - 115

Lab Sample ID: 500-249028-15 MS
Matrix: Water
Analysis Batch: 765188

Client Sample ID: HEN_08
Prep Type: Total Recoverable
Prep Batch: 765021

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.016		0.250	0.266		mg/L		100	70 - 130

Lab Sample ID: 500-249028-15 DU
Matrix: Water
Analysis Batch: 765188

Client Sample ID: HEN_08
Prep Type: Total Recoverable
Prep Batch: 765021

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.016		0.0161		mg/L		2	20

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-765119/1-A
Matrix: Water
Analysis Batch: 765664

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 765119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		04/26/24 08:48	04/30/24 12:08	1

Lab Sample ID: LCS 500-765119/2-A
Matrix: Water
Analysis Batch: 765664

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 765119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.259		mg/L		104	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-764893/1-A
Matrix: Water
Analysis Batch: 765372

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:20	04/26/24 15:06	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:20	04/26/24 15:06	1
Barium	<0.0025		0.0025	0.00073	mg/L		04/25/24 09:20	04/26/24 15:06	1
Beryllium	<0.0010	^5-	0.0010	0.00053	mg/L		04/25/24 09:20	04/26/24 15:06	1
Boron	<0.050		0.050	0.013	mg/L		04/25/24 09:20	04/26/24 15:06	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:20	04/26/24 15:06	1
Calcium	<0.20		0.20	0.044	mg/L		04/25/24 09:20	04/26/24 15:06	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:20	04/26/24 15:06	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:20	04/26/24 15:06	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:20	04/26/24 15:06	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		04/25/24 09:20	04/26/24 15:06	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:20	04/26/24 15:06	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:20	04/26/24 15:06	1

Lab Sample ID: LCS 500-764893/2-A
Matrix: Water
Analysis Batch: 765372

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.504		mg/L		101	80 - 120
Arsenic	0.100	0.0969		mg/L		97	80 - 120
Barium	0.500	0.497		mg/L		99	80 - 120
Beryllium	0.0500	0.0502	^5-	mg/L		100	80 - 120
Boron	1.00	0.956		mg/L		96	80 - 120
Cadmium	0.0500	0.0508		mg/L		102	80 - 120
Calcium	10.0	8.82		mg/L		88	80 - 120
Chromium	0.200	0.199		mg/L		100	80 - 120
Cobalt	0.500	0.503		mg/L		101	80 - 120
Lead	0.100	0.0970		mg/L		97	80 - 120
Molybdenum	1.00	0.958		mg/L		96	80 - 120
Selenium	0.100	0.0978		mg/L		98	80 - 120
Thallium	0.100	0.0974		mg/L		97	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

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

Lab Sample ID: MB 500-764894/1-A
Matrix: Water
Analysis Batch: 765372

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		04/25/24 09:23	04/26/24 13:22	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		04/25/24 09:23	04/26/24 13:22	1
Barium	<0.0025		0.0025	0.00073	mg/L		04/25/24 09:23	04/26/24 13:22	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		04/25/24 09:23	04/26/24 13:22	1
Calcium	<0.20		0.20	0.044	mg/L		04/25/24 09:23	04/26/24 13:22	1
Chromium	<0.0050		0.0050	0.0011	mg/L		04/25/24 09:23	04/26/24 13:22	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		04/25/24 09:23	04/26/24 13:22	1
Lead	<0.00050		0.00050	0.00019	mg/L		04/25/24 09:23	04/26/24 13:22	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		04/25/24 09:23	04/26/24 13:22	1
Selenium	<0.0025		0.0025	0.00098	mg/L		04/25/24 09:23	04/26/24 13:22	1
Thallium	<0.0020		0.0020	0.00057	mg/L		04/25/24 09:23	04/26/24 13:22	1

Lab Sample ID: MB 500-764894/1-A
Matrix: Water
Analysis Batch: 765568

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 764894

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010	0.00053	mg/L		04/25/24 09:23	04/29/24 12:58	1
Boron	<0.050		0.050	0.013	mg/L		04/25/24 09:23	04/29/24 12:58	1

Lab Sample ID: LCS 500-764894/2-A
Matrix: Water
Analysis Batch: 765372

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.509		mg/L		102	80 - 120
Arsenic	0.100	0.103		mg/L		103	80 - 120
Barium	0.500	0.525		mg/L		105	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Calcium	10.0	9.32		mg/L		93	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Cobalt	0.500	0.513		mg/L		103	80 - 120
Lead	0.100	0.0980		mg/L		98	80 - 120
Molybdenum	1.00	0.990		mg/L		99	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Thallium	0.100	0.0992		mg/L		99	80 - 120

Lab Sample ID: LCS 500-764894/2-A
Matrix: Water
Analysis Batch: 765568

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 764894

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0536		mg/L		107	80 - 120
Boron	1.00	1.05		mg/L		105	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-765382/11-A
Matrix: Water
Analysis Batch: 765626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 765382

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 08:21	1

Lab Sample ID: LCS 500-765382/12-A
Matrix: Water
Analysis Batch: 765626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 765382

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00203		mg/L		101	80 - 120

Lab Sample ID: MB 500-765389/12-A
Matrix: Water
Analysis Batch: 765626

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 765389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		04/29/24 10:55	04/30/24 07:12	1

Lab Sample ID: LCS 500-765389/13-A
Matrix: Water
Analysis Batch: 765626

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 765389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00191		mg/L		95	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-766360/3
Matrix: Water
Analysis Batch: 766360

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			05/06/24 11:32	1
Sulfate	<1.0		1.0	0.21	mg/L			05/06/24 11:32	1

Lab Sample ID: MB 500-766360/33
Matrix: Water
Analysis Batch: 766360

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			05/06/24 19:08	1
Sulfate	<1.0		1.0	0.21	mg/L			05/06/24 19:08	1

Lab Sample ID: LCS 500-766360/34
Matrix: Water
Analysis Batch: 766360

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	19.6		mg/L		98	90 - 110
Sulfate	20.0	20.4		mg/L		102	90 - 110

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-766360/4
Matrix: Water
Analysis Batch: 766360

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	19.7		mg/L		99	90 - 110
Sulfate	20.0	20.4		mg/L		102	90 - 110

Lab Sample ID: 500-249028-18 MS
Matrix: Water
Analysis Batch: 766360

Client Sample ID: HEN_16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	61		100	150		mg/L		89	80 - 120
Sulfate	51		100	146		mg/L		95	80 - 120

Lab Sample ID: 500-249028-18 MSD
Matrix: Water
Analysis Batch: 766360

Client Sample ID: HEN_16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61		100	150		mg/L		89	80 - 120	0	20
Sulfate	51		100	145		mg/L		94	80 - 120	1	20

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

Lab Sample ID: MB 500-763450/1
Matrix: Water
Analysis Batch: 763450

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			04/16/24 20:47	1

Lab Sample ID: LCS 500-763450/2
Matrix: Water
Analysis Batch: 763450

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	234		mg/L		94	80 - 120

Lab Sample ID: MB 500-763451/1
Matrix: Water
Analysis Batch: 763451

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			04/16/24 22:21	1

Lab Sample ID: LCS 500-763451/2
Matrix: Water
Analysis Batch: 763451

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	274		mg/L		110	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

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

Lab Sample ID: 500-249028-11 DU — **Client Sample ID: HEN_46**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 763451

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	530			518		mg/L				2	5

Lab Sample ID: MB 500-763630/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 763630

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	4.3	mg/L			04/18/24 02:43	1

Lab Sample ID: LCS 500-763630/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 763630

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			250	268		mg/L		107	80 - 120		

Lab Sample ID: MB 500-763874/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 763874

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<10		10	4.3	mg/L			04/18/24 22:43	1

Lab Sample ID: LCS 500-763874/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 763874

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			250	252		mg/L		101	80 - 120		

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-765957/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 765957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			05/01/24 14:00	1

Lab Sample ID: MB 500-765957/31 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 765957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.10		0.10	0.056	mg/L			05/01/24 16:13	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
HEN-257803
SDG: HEN_257_803

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-765957/32
Matrix: Water
Analysis Batch: 765957

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	9.84		mg/L		98	90 - 119

Lab Sample ID: LCS 500-765957/4
Matrix: Water
Analysis Batch: 765957

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	9.81		mg/L		98	90 - 119

Lab Sample ID: MB 500-766368/3
Matrix: Water
Analysis Batch: 766368

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			05/03/24 12:22	1

Lab Sample ID: LCS 500-766368/4
Matrix: Water
Analysis Batch: 766368

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	9.68		mg/L		97	90 - 119

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_12
Date Collected: 04/15/24 18:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			764775	MC	EET CHI	04/24/24 16:44 - 04/24/24 22:44 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	764960	SJ	EET CHI	04/25/24 13:03
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 15:31
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 08:38
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 15:05
Total/NA	Analysis	SM 2540C		1	763450	CLB	EET CHI	04/16/24 21:36
Total/NA	Analysis	SM 4500 F C		1	766368	SO	EET CHI	05/03/24 13:06
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/15/24 18:15

Client Sample ID: HEN_13
Date Collected: 04/15/24 17:25
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			764775	MC	EET CHI	04/24/24 16:44 - 04/24/24 22:44 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	764960	SJ	EET CHI	04/25/24 13:07
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 15:33
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 08:40
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 15:20
Total/NA	Analysis	SM 2540C		1	763450	CLB	EET CHI	04/16/24 21:38
Total/NA	Analysis	SM 4500 F C		1	766368	SO	EET CHI	05/03/24 13:21
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/15/24 17:25

Client Sample ID: HEN_46
Date Collected: 04/15/24 18:00
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			764775	MC	EET CHI	04/24/24 16:44 - 04/24/24 22:44 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	764960	SJ	EET CHI	04/25/24 13:25
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 15:48
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:06
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 16:36
Total/NA	Analysis	SM 2540C		1	763451	CLB	EET CHI	04/16/24 22:21
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 15:22
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/15/24 18:00

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_47
Date Collected: 04/15/24 17:10
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765021	MC	EET CHI	04/25/24 17:17 - 04/25/24 23:17 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765188	SJ	EET CHI	04/26/24 12:03
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:07
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:08
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 16:51
Total/NA	Analysis	SM 2540C		1	763451	CLB	EET CHI	04/16/24 22:21
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 15:27
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/15/24 17:10

Client Sample ID: HEN_07
Date Collected: 04/16/24 10:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765021	MC	EET CHI	04/25/24 17:17 - 04/25/24 23:17 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765188	SJ	EET CHI	04/26/24 12:16
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:09
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:10
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 17:36
Total/NA	Analysis	SM 2540C		1	763630	CLB	EET CHI	04/18/24 03:34
Total/NA	Analysis	SM 4500 F C		1	766368	SO	EET CHI	05/03/24 13:44
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 10:05

Client Sample ID: HEN_08
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765021	MC	EET CHI	04/25/24 17:17 - 04/25/24 23:17 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765188	SJ	EET CHI	04/26/24 12:20
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:11
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:12
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 17:52
Total/NA	Analysis	SM 2540C		1	763630	CLB	EET CHI	04/18/24 03:37
Total/NA	Analysis	SM 4500 F C		1	766368	SO	EET CHI	05/03/24 13:49
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 11:00

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

Client Sample ID: HEN_08&D
Date Collected: 04/16/24 10:10
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765664	SJ	EET CHI	04/30/24 12:38
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:13
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:14
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 18:07
Total/NA	Analysis	SM 2540C		1	763630	CLB	EET CHI	04/18/24 03:39
Total/NA	Analysis	SM 4500 F C		1	766368	SO	EET CHI	05/03/24 13:54
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 10:10

Client Sample ID: HEN_16
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765585	SJ	EET CHI	04/29/24 17:29
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:17
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:18
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 19:38
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 22:48
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:04
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 11:00

Client Sample ID: HEN_16_FD
Date Collected: 04/16/24 11:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765585	SJ	EET CHI	04/29/24 17:34
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:19
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:21
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 20:54
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 22:50
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:08
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 11:05

Client Sample ID: HEN_17
Date Collected: 04/16/24 11:50
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765585	SJ	EET CHI	04/29/24 17:38
Total Recoverable	Prep	3005A			764893	BDE	EET CHI	04/25/24 09:20 - 04/25/24 15:20 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 16:22
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:23
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 21:09
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 22:53
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:23
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 11:50

Client Sample ID: HEN_52
Date Collected: 04/16/24 12:20
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765585	SJ	EET CHI	04/29/24 17:42
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 14:16
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765568	RN	EET CHI	04/29/24 13:02
Total/NA	Prep	7470A			765382	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 09:29
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 21:24
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 22:55
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:28
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 12:20

Client Sample ID: HEN_54
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765664	SJ	EET CHI	04/30/24 12:42
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 14:19
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765568	RN	EET CHI	04/29/24 13:04
Total/NA	Prep	7470A			765389	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 07:17
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 21:39
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 22:58

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-7
HEN-257803
SDG: HEN_257_803

Client Sample ID: HEN_54
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:32
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 12:35

Client Sample ID: HEN_54_FD
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			765119	BDE	EET CHI	04/26/24 08:48 - 04/26/24 14:48 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	765664	SJ	EET CHI	04/30/24 12:46
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765372	RN	EET CHI	04/26/24 14:21
Total Recoverable	Prep	3005A			764894	BDE	EET CHI	04/25/24 09:23 - 04/25/24 15:23 [1]
Total Recoverable	Analysis	6020B		1	765568	RN	EET CHI	04/29/24 13:07
Total/NA	Prep	7470A			765389	MJG	EET CHI	04/29/24 10:55 - 04/29/24 12:55 [1]
Total/NA	Analysis	7470A		1	765626	MJG	EET CHI	04/30/24 07:19
Total/NA	Analysis	300.0		10	766360	NMB	EET CHI	05/06/24 21:54
Total/NA	Analysis	SM 2540C		1	763874	CLB	EET CHI	04/18/24 23:01
Total/NA	Analysis	SM 4500 F C		1	765957	SO	EET CHI	05/01/24 16:37
Total/NA	Analysis	Field Sampling		1	765661	DN	EET CHI	04/16/24 12:35

Client Sample ID: HEN_55
Date Collected: 04/15/24 10:10
Date Received: 04/30/24 11:09

Lab Sample ID: 500-249028-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	765820	DN	EET CHI	04/15/24 10:10

Client Sample ID: HEN_XSG01
Date Collected: 04/15/24 09:55
Date Received: 04/30/24 11:09

Lab Sample ID: 500-249028-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	765820	DN	EET CHI	04/15/24 09:55

Client Sample ID: HEN_YSG_ILRIVER
Date Collected: 04/15/24 11:45
Date Received: 04/30/24 11:09

Lab Sample ID: 500-249028-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	765820	DN	EET CHI	04/15/24 11:45

[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: HEN-24Q2

Job ID: 500-249028-7
SDG: HEN_257_803

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

500-249028

HEN-257-803

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 3

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St Hennepin, IL 61327
Email To.	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To.	Brian Voelker
Copy To:	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number:	50023030

Section C Invoice Information.

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

500 249028 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_RAD_000	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_02~~																							X			A		~~SHORT HOLD-NO2~~
1	HEN_03R	WT	G	4/15/24	1555		15										X				X			X		X	B			SHORT HOLD-NO2
2	HEN_03R_FD	"	"	"	1615		15										X				X			X		X	B			SHORT HOLD-NO2
3	HEN_05IR				1432		11													X							E			SHORT HOLD-NO2
4	HEN_05&DR				1515		11													X							E			SHORT HOLD-NO2
	~~HEN_07~~																X	X			X	X		X		X	B			~~SHORT HOLD-NO2~~
	~~HEN_08~~																X	X		X	X	X		X		X	C			~~SHORT HOLD-NO2~~
	~~HEN_08&D~~																X	X		X	X	X		X		X	C			~~SHORT HOLD-NO2~~
	~~HEN_10~~																			X				X			D			~~SHORT HOLD-NO2~~
5	HEN_12	WT	G	4/15/24	1815		13											X		X		X				X	F			SHORT HOLD-NO2
6	HEN_13	"	"	"	1725		13											X		X		X				X	F			SHORT HOLD-NO2
	~~HEN_16~~																	X				X				X	G			
	~~HEN_16_FD~~																	X				X				X	G			
	~~HEN_17~~																	X				X				X	G			
7	HEN_18#S	WT	G	4/15/24	1448		15										X				X			X		X	B			SHORT HOLD-NO2
8	HEN_18&D	"	"	"	1344		15										X				X			X		X	B			SHORT HOLD-NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
HEN-24Q2 Rev 0	ABeckett	4/16/24	0930							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett DATE Signed (MM/DD/YY): 4/16/24 @ 0930

Beckett 4/16/24 0930 EETA

Blake Blake 4/16/24 1125 EETA

Allison Scott 4/16/24 1125 EETA

5.2 → 4.8
5.0 → 4.6
4.6 → 4.2
5.8 → 5.4
6.0 → 5.6

05/13/24

560-244028

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 2 of 3

Section A Required Client Information.

Company:	Vistra Corp-Hennepin
Address:	13498 E 800th St
	Hennepin, IL 61327
Email To:	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax
Requested Due Date/TAT	10 day

Section B Required Project Information:

Report To	Brian Voelker
Copy To:	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number:	50023030

Section C Invoice Information.

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_24R~~																		X				X		X	X	H	
	~~HEN_22~~																		X				X		X	X	H	
	~~HEN_22&D~~																		X				X		X	X	H	
	~~HEN_23~~																		X				X		X	X	H	
	~~HEN_25~~																		X								J		~~DTW ONLY~~
	~~HEN_26~~																		X								J		~~DTW ONLY~~
	~~HEN_27~~																		X				X		X	X	H		
	~~HEN_30~~																		X								J		~~DTW ONLY~~
	~~HEN_31~~																		X								J		~~DTW ONLY~~
	~~HEN_32~~																		X				X		X	X	H		
	~~HEN_33~~																		X								J		~~DTW ONLY~~
	~~HEN_34~~																		X				X		X	X	H		
	~~HEN_35~~																		X				X		X	X	H		
	~~HEN_35_FD~~																		X				X		X	X	H		
	~~HEN_36~~																		X								J		~~DTW ONLY~~
9	HEN_40#S	WTG		4/15/24	1345		11													X							E		SHORT HOLD-NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	[signature]	4/16/24	0930				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible] BELNETT

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4/16/24 @ 0930

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

[signature] 4/16/24 0930 EETA

[signature] 4/16/24 1125 EETA

[signature] 4/16/24 1125 EETA

500 - 24902B
HEN257803

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 3 of 3

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Hennepin	Report To	Brian Voelker	Attention	Jason Stuckey
Address	13498 E 800th St	Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327			Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

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

Valid Matrix Codes

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

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
10	HEN_45#S	WT	G	4/15/24	1005		15										X				X			X		X	B		SHORT HOLD-NO2
11	HEN_46	↓	↓	↓	1800		6											X				X				X	G		
12	HEN_47	↓	↓	↓	1710		6											X				X				X	G		
	~~HEN_49~~																		X				X		X	X	H		
	~~HEN_50~~																		X				X		X	X	H		
	~~HEN_51~~																		X				X		X	X	H		
	~~HEN_52~~																	X				X				X	G		
	~~HEN_54~~																	X				X				X	G		
	HEN_54_FD																	X				X				X	G		
	~~HEN_55~~																	X				X					J		DTW ONLY
	~~HEN_XSG01~~																	X				X					J		DTW ONLY
	~~HEN_YSG_ILRIVER~~																X	X	X		X	X	X	X	X		J		DTW ONLY
	~~HEN_FB~~																			X	X			X		X	C		SHORT HOLD-NO2
	~~HEN_TB~~																							X			A		BTEX ONLY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	[signature]	4/16/24	0930				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Bickett

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4/15/24 0930

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

Allison Bickett 4/16/24 0930 EETA
Allison Bickett 4/16/24 1125
[signature] 4/16/24 1125 EETA

500-249028 B

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 2

Section A Required Client Information.		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	13498 E 800th St	Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327			Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax	Project Name:		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

500-249028 COC

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

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_RAD_000	HEN_000			Residual Chlorine (Y/N)	Project No./ Lab I.D.
13	HEN_02	WT	G	4/16/24	1330		10																		X			A			SHORT HOLD-NO2
	~~HEN_03R~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~
	~~HEN_03R_FD~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~
	~~HEN_05IR~~																				X							E			~~SHORT HOLD-NO2~~
	~~HEN_05&DR~~																				X							E			~~SHORT HOLD-NO2~~
14	HEN_07	WT	G	4/16/24	1005		15											X	X			X	X		X		X	B			SHORT HOLD-NO2
15	HEN_08	↓	↓	↓	1100		17											X	X		X	X	X		X		X	C			SHORT HOLD-NO2
16	HEN_08&D				1010		17											X	X		X	X	X		X		X	C			SHORT HOLD-NO2
17	HEN_10	↓	↓	↓	1305		15														X				X			D			SHORT HOLD-NO2
	~~HEN_12~~																		X		X		X				X	F			~~SHORT HOLD-NO2~~
	~~HEN_13~~																		X		X		X				X	F			~~SHORT HOLD-NO2~~
18	HEN_16	WT	G	4/16/24	1100		6												X				X				X	G			
19	HEN_16_FD	↓	↓	↓	1105		6												X				X				X	G			
20	HEN_17	↓	↓	↓	1150		6												X				X				X	G			
	~~HEN_18#S~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~
	~~HEN_18&D~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	Becker	4/16/24	1630				

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:	Allison Becker					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY) 4/16/24				

5.6 → 5.2
3.7 → 3.3
4.4 → 4.0
5.2 → 4.8

Received by 1430

Relinquished by 1630

Received by 4/16/24 1630

CHAIN-OF-CUSTODY / Analytical Request Document

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

500240028

Page 2 of 2

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To	Brian Voelker	Attention	Jason Stuckey
Address	13498 E. 800th St Hennepin, IL 61327	Copy To:	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
				Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax	Project Name		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_45#S~~																X				X			X		X	B		~~SHORT HOLD-NO2~~
	~~HEN_46~~																	X				X				X	G		
	~~HEN_47~~																	X				X				X	G		
	~~HEN_49~~																		X				X	X	X	X	H		
	~~HEN_50~~																		X				X		X	X	H		
	~~HEN_51~~																		X				X		X	X	H		
21	HEN_52	WT	G	4/16/24	1220		6											X				X				X	G		
22	HEN_54	↓	↓	↓	1235		6											X				X				X	G		
23	HEN_54_FD	↓	↓	↓	1235		6											X				X				X	G		
	~~HEN_55~~																	X				X			>		J		~~DTW ONLY~~
	~~HEN_XBG01~~																	X				X					J		~~DTW ONLY~~
	~~HEN_YSG_ILRIVER~~																X	X	X		X	X	X	X	X		J		~~DTW ONLY~~
24	HEN_FB	WT	G	4/16/24	1430		17													X	X			X		X	C		SHORT HOLD-NO2
	~~HEN_TB~~																							X			A		BTEX ONLY
25	HEN_TB1																												Added by EESA
26	HEN_TB2																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	Becker	4/16/24	1630				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Becker

SIGNATURE of SAMPLER: Becker DATE Signed (MM/DD/YY): 4/16/24

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

Lorne Filing 1430

David Filing 1630 Allison Scott 4/16/24 1630

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-249028-7
SDG Number: HEN_257_803

Login Number: 249028
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	4.8,4.6,4.2,5.4,5.6,5.2,3.3,4.0,4.8
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1250
Field Personnel: A. Beckett / L Filewicz Finish Date: 4/16/24 Time: 1330

WELL INFORMATION

Well ID: ~~HEN-~~ 02
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
bkd	1250		42.42								
purge	1255		42.42		13.0	7.00	1546	1.53	2.38	168.4	clear
	1300		42.43		13.1	7.02	1583	0.67	0.95	164.5	" "
	1305		42.42		13.01	7.02	1592	0.55	0.93	161.7	" "
	1310		42.42		13.1	7.02	1596	0.50	0.93	159.8	" "
	1315		42.43		13.0	7.02	1595	0.51	0.92	159.0	" "

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units

Sampled @ 1320

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1400
Field Personnel: A. Beckett / L Filewicz Finish Date: 4/15/24 Time: 1440

WELL INFORMATION

Well ID: ~~HEN~~ 45! R
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C) 3%	pH (SU) +/-0.1	SEC or Cond (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1400		38.58								
purge	1405		38.58		16.9	7.104	1252	0.76	11.50	140.9	clear
	1410		38.58		16.9	7.03	1252	0.33	8.25	137.4	" "
	1415		38.58		16.9	7.03	1254	0.14	7.68	134.3	" "
	1420		38.58		16.9	7.03	1265	0.11	7.03	131.5	" "
	1425		38.58		14.9	7.04	1273	0.10	2.78	128.9	" "
	1430	4	38.58		16.9	7.04	1277	0.10	4.11	128.0	" "

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units

☐ ☐

☐ ☐

sampled @ 1432

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1450
Field Personnel: A. Beckett / L. Filewicz Finish Date: 4/15/24 Time: 1525

WELL INFORMATION

Well ID: ~~HEN-059DR~~
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C) 3%	pH (SU) +/-0.1	SEC or Cond (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1445		38.59								
purge	1450		38.58		17.0	7.47	1226	2.25	2.95	149.3	clear
	1455		38.59		17.0	7.46	1227	0.53	1.85	145.9	"
	1500		38.59		17.1	7.46	1226	0.33	1.81	141.6	"
	1505		38.59		17.1	7.46	1229	0.32	1.60	139.2	"
	1510	3	38.59		17.1	7.47	1227	0.33	1.52	137.2	
	~~1515~~										
	#										

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
na -

Low-Flow Sampling Form

Page

☐ ☐

Sampled @ 1515

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra 0935
Project Number: Task #: Start Date: 4/16/2024 Time:
Field Personnel: A Beckett / L Filewicz Finish Date: 4-16-24 Time: 1005

WELL INFORMATION

Well ID: 7
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	0935		→ 66.82		12.5	6.91	1070	9.30	3.92	159.6	
	0945	→									
	0950				12.7	6.90	1032	6.88	3.45	157.9	
	0955				12.8	6.96	1023	5.55	2.54	154.5	
	1000				12.7	6.97	1032	5.16	2.50	154.0	
	1005	2GAL	66.85		12.8	6.97	1036	5.12	2.24	154.0	

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

Cond - Actual Conductivity
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
FT BTOC - Feet Below Top of Casing na -

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1030
Field Personnel: A Beckett / L Filewicz Finish Date: 4.16.24 Time: 1100

WELL INFORMATION
Well ID: 8
Casing ID: inches

EVENT TYPE
Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C) 3%	pH (SU) +/-0.1	SEC or Cond (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1030		51.23								
	1040				14.46	6.81	2044	7.39	2.75	177.9	
	1045				14.60	6.76	1926	3.69	.95	174.0	
	1050				14.60	6.76	1994	2.37	.50	169.9	
	1055				14.60	6.76	1891	2.35	.54	166.9	
	1100	2GAL	15.21		14.60	6.76	1879	2.30	.55	166.9	

NOTES (continued)
Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS
Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units

4.20 L8-24-30

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 0935
Field Personnel: A. Beckett / L Filewicz Finish Date: 4/16/24 Time: 1030

WELL INFORMATION

Well ID: ~~HEN-08~~ &D
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C) 3%	pH (SU) +/-0.1	SEC or Cond (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	0940		51.66								
purge	0945		51.66		13.7	6.80	3255	3.73	2.21	159.6	clear
	0950		51.65		13.7	6.74	3207	1.27	2.83	160.3	" "
	0955		51.46		13.7	6.73	3237	1.05	2.74	155.6	" "
	1000		51.65		13.7	6.73	3238	1.07	2.57	155.6	" "
	1005	2	51.65		13.8	6.72	3232	1.08	3.49	154.4	" "

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units

17 Bottles

Sampled @ 1010

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1235
Field Personnel: A Beckett / L Filewicz Finish Date: 4 16 24 Time: 1305

WELL INFORMATION

Well ID: 10
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
	1235		48.23								
	1245				12.7	7.41	973	7.70	1.60	145.8	
	1250				18.5	7.27	965	4.25	2.07	144.8	
	1255				18.5	7.24	954	3.59	2.10	140.8	
	1300				18.5	7.24	951	3.55	1.34	136.9	
	1305	2 Gal	48.25								

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing na -
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4-15-24 Time: 1745
Field Personnel: AB/LF Finish Date: 4-15-24 Time: 1815

WELL INFORMATION

Well ID: 12
Transducer Serial #:

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
					3%	+.1	3%	10%	10%	+10	
Pre	1745		48.79								
	1750				16.6	7.160	888	8.62	2.82	105.2	
	1755				17.6	7.30	978	4.161	1.26	114.9	
	1800				17.7	7.26	998	3.19	1.28	114.6	
	1805				17.7	7.26	999	3.06	1.33	114.1	
	1810				17.7	7.25	998	3.05	1.15	114.0	
	1815		48.85		17.6	7.25	999	3.04	1.20	114.1	

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1030
Field Personnel: A Beckett / L Filewicz Finish Date: 4/16/24 Time:

WELL INFORMATION

Well ID: HEN-16
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C) 3%	pH (SU) +/-0.1	SEC or Cond (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1030		51.85								
purge	1035		51.84		14.2	7.44	1068	7.23	0.78	147.7	Clear
	1040		51.84		13.6	7.42	1051	7.06	0.73	149.8	"
	1045		51.83		13.6	7.40	1051	7.07	0.72	149.8	"
	1050		51.84		13.5	7.40	1051	7.08	0.70	149.7	"
	1055	3.5	51.83		13.5	7.41	1051	7.10	0.72	149.2	"

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing na
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

Low-Flow Sampling Form Page

☐ ☐ 6 bottles

Sampled @ 1100

dupe sampled @ 1105

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4-15-24 Time: 1700
Field Personnel: AB/LF Finish Date: 4-15-24 Time: 1725

WELL INFORMATION

Well ID: 13
Transducer Serial #:

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
					3%	+.1	3%	10%	10%	+10	
Pre	1655		48.82								
	1700		48.82		17.7	7.29	966	4.41	1.53	106.6	
	1705				18.0	7.35	964	1.16	.63	110.7	
	1710				18.0	7.36	975	1.43	-.75	108.8	
	1715				17.9	7.33	996	2.31	.78	108.6	
	1720				18.0	7.33	998	2.36	.57	107.7	
	1725	2.5 Gal	48.85		17.9	7.33	998	2.35	.56	107.1	
	1730										

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance
FT BTOC - Feet Below Top of Casing na - SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1120
Field Personnel: A Beckett / L Filewicz Finish Date: 4/16/24 Time: 1200

WELL INFORMATION

Well ID: ~~HEN-17~~
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1120		54.94					7.75			
purge	1125		54.94		14.7	7.34	1260	~~7.75~~	4.18	156.2	clear
	1130		54.93		14.8	7.35	1040	7.72	4.00	154.6	"
	1135		54.94		14.8	7.34	1051	7.52	5.23	154.1	"
	1140		54.94		14.8	7.33	1054	7.41	5.90	154.1	"
	1145		54.94		14.8	7.33	1053	7.42	6.22	154.2	"

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

☐ ☐ 6 bottles

Sampled @ 1150

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/24 Time: 1413
Field Personnel: ABLF Finish Date: 4/15/24 Time: 1448

WELL INFORMATION

Well ID: 18 S
Transducer Serial #:

EVENT TYPE

Well Development
Well Volume Approach Sampling
~~Low-Flow~~ Low Stress Sampling Other (Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
					3%	+.1	3%	10%	10%	+10	
re [redacted]	1413		37.90								
	1418		37.90		16.90	7.25	1120	2.91	7.05	112.2	Clear
	1423				16.9	7.26	1120	2.11	5.30	109.5	
	1428				17.0	7.27	1117	1.90	3.21	106.0	
	1433				16.9	7.27	1115	1.79	2.18	102.5	
	1438				17.0	7.27	1113	1.76	2.05	101.2	
	1443				17.0	7.28	1112	1.73	2.14	98.6	
	1448				17.0	7.28	1112	1.73	1.93	97.6	
	1453	3GAL	37.72								

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/24 Time: 1319
Field Personnel: ABLF Finish Date: 4/15-24 Time: 1344

WELL INFORMATION

Well ID: 18D
Transducer Serial #:

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
					3%	+.1	3%	10%	10%	+10	
Pre	1319		38.08								
	1324		38.08		17.5	7.26	977	2.00	9.46	96.3	
	1329				17.6	7.24	975	1.50	8.64	96.2	
	1334				17.6	7.24	975	1.33	9.38	94.5	
	1339				17.6	7.24	974	1.26	8.82	92.7	
	1344	2Gal	38.27		17.6	7.22	973	.93	8.98	90.8	Clear

NOTES (continued)

Alot of Air Bubbles From Well into YSI.

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4-15-24 Time: 1515
Field Personnel: AB/LF Finish Date: 4/15/24 Time: 1555

WELL INFORMATION

Well ID: 03R
Transducer Serial #:

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
					3%	+.1	3%	10%	10%	+10	
Pre	1515		32.42								
	1520				18.1	7.24	1012	1.00	24.04	124.7	
	1525				17.7	7.20	1008	.50	13.18	118.4	
	1530				17.9	7.20	1009	.43	7.71	112.1	
	1535				17.9	7.20	1009	.40	5.02	105.5	
	1540				17.9	7.20	1009	.38	3.76	100.5	
	1545				18.0	7.20	1008	.37	3.44	96.1	
	1550				17.8	7.20	1009	.36	2.76	92.7	
	1555	3.56AL	32.50		17.9	7.20	1007	.36	2.69	89.7	
	1600										
	1605										

NOTES (continued)

ABBREVIATIONS

Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance
FT BTOC - Feet Below Top of Casing na - SU - Standard Units

Dupe 03R 1615

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1300
Field Personnel: A. Beckett / L.Filewicz Finish Date: 4/15/24 Time: 1350

WELL INFORMATION

Well ID: ~~HEN~~ 40#5
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C) 3%	pH (SU) +/-0.1	SEC or Cond (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) ±10%	Visual Clarity
0 pre	1310		37.88								
10 purge	1315		37.88		17.0	7.73	1305	3.05	3.90	135.4	clear
	1320		37.85		17.1	7.75	1320	0.00	2.76	130.3	" "
15	1325		37.85		17.1	7.77	1303	0.35	5.02	126.0	" "
20	1330		37.85		17.0	7.75	1313	0.80	9.71	124.5	" "
25	1335		37.85		17.0	7.77	1297	1.52	8.81	122.1	" "
30	1340		37.85		17.0	7.78	1294	1.38	2.02	120.9	" "
35	1345	4	37.85		17.0	7.77	1294	1.42	9.89	119.7	" "
40	1350										

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na =
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

Sampled @ 1345

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1530
Field Personnel: A. Beckett / L Filewicz Finish Date: 4/15/24 Time: 1630

WELL INFORMATION

Well ID: ~~HEN_45~~#5
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1530		18.71								
purge	1535		18.72		17.6	7.24	1403	5.12	4.48	111.7	clear
	1540		18.72		20.0	7.14	1428	1.48	21.90	131.7	clear
	1545		18.72		19.8	7.13	1448	6.07	39.52	135.9	murky
	1550		18.71		19.8	7.13	1449	0.02	15.51	134.2	" "
	1550		18.72		19.9	7.13	1450	0.01	7.22	132.9	" "
	1600		18.71		19.9	7.13	1450	0.01	4.77	131.5	" "
	1605		18.71		19.9	7.13	1451	0.00	4.21	130.7	" "

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

Low-Flow Sampling Form Page

☐ ☐ ☐ ☐

Sampled @ 1605

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1730
Field Personnel: A. Beckett / L Filewicz Finish Date: 4/15/24 Time: 1815

WELL INFORMATION

Well ID: ~~HEN-46~~
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre purge	1730		48.96								
	1735		48.96		17.1	7.28	1288	5.04	2.00	158.9	clear
	1740		48.96		17.0	7.28	1322	2.68	1.44	155.4	"
	1745		48.96		16.9	7.28	1321	2.63	1.20	153.2	"
	1750		48.96		16.9	7.29	1321	2.62	0.96	152.0	"
	1755		48.96		16.9	7.29	1320	2.63	0.92	151.2	"
	~~1800~~										

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical
FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units

Low-Flow Sampling Form Page

☐ ☐ ☐ ☐

Sampled @ 1800

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/15/2024 Time: 1635
Field Personnel: A. Beckett / L. Filewicz Finish Date: 4/15/24 Time: ~~1630~~ 1730

WELL INFORMATION

Well ID: ~~Hen-47~~
Casing ID: ~~4~~ inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1635		53.22								
purge	1640		53.22		18.2	7.08	1310	2.40	1.52	154.6	clear
	1645		53.23		18.2	7.08	1310	2.38	1.81	154.5	"
	1650		53.22		18.1	7.09	1358	2.25	0.84	150.5	"
	1655		53.22		18.1	7.09	1358	2.23	0.83	149.5	"
	1700		53.22		18.1	7.09	1356	2.22	0.78	148.6	"
	1705	2.5	53.23		18.1	7.09	1358	2.22	0.74	148.4	"
	~~1710~~										

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

Sampled @ 1710

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1155
Field Personnel: A. Beckett / L. Filewicz Finish Date: 4/16/24 Time: 1220

WELL INFORMATION

Well ID: 52
Casing ID: inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
~~Low-Flow~~ Low Stress Sampling Other
(Specify): Low Flow

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C) 3%	pH (SU) +/-0.1	SEC or Cond (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre-Sample	1155		51.45								
	1200				18.3	7.27	965	4.82	11.02	144.5	
	1205				18.5	7.23	947	2.67	4.18	141.5	
	1210				18.4	7.23	946	2.42	2.77	137.0	
	1215				18.4	7.23	946	2.39	1.77	134.9	
	1220	1.5 Gal	51.34		18.4	7.23	946	2.36	1.70	133.6	

NOTES (continued)

Bladder Pump / Clear / No Color / No odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 4/16/2024 Time: 1205
Field Personnel: A. Beckett / L.Filewicz Finish Date: 4/16/24 Time: 1250

WELL INFORMATION

Well ID: ~~HEN-~~ 54
Casing ID: inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 3%	pH (SU) +/-0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
pre	1205		50.72								
purge	1210		50.73		17.8	7.30	1341	2.04	2.75	158.5	Clear
	1215		50.73		17.8	7.31	1340	1.13	2.65	155.6	" "
	1220		50.73		17.7	7.31	1340	1.07	1.90	153.3	" "
	1225		50.73		17.7	7.31	1340	1.07	1.49	151.4	" "
	1230	3.5	50.73		17.7	7.31	1340	1.07	1.61	152.5	" "

NOTES (continued)

Bladder Pump / Clear /No Color / No odor

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units

Low-Flow Sampling Form Page

☐ ☐

Sampled @ 1235

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.
Transducer data on SAR-4 form may be collected at anytime during the sampling event.
Plant: HEN
Event: HEN-24Q2 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
					Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)		
22D	HEN_22&D	4/15/24	0828	16.67	21564134	yes	449.11	Y	H	DTP: 53.69	AB
08	HEN_08	4/15/24	0925	51.12	21615138	yes	450.27	Y	H	DTP: 57.09	AB
07	HEN_07	4/15/24	1215	66.81	21615139	yes	451.4	Y	H	DTP: 72.22	AB
03R	HEN_03R	4/15/24	1055	32.35	21615140	yes	449.92	Y	H	DTP: [illegible]	AB
54	HEN_54	4/15/24	1005	50.63	21615143	yes	449.83	Y	H	DTP: 68.45	AB
52	HEN_52	4/15/24	0900	51.32	21615145	yes	449.89	Y	H	DTP: [illegible]	AB
18S	HEN_18#S	4/15/24	1050	37.85	21615482	yes	450.88	Y	H	DTP: 42.55	AB
32	HEN_32				21615487						
50	HEN_50	4/15/24	0820	15.37	21615489	yes	448.84	Y	H	DTP: 24.92	AB
46	HEN_46	4/15/24	0945	48.95	21615491	yes	449.46	Y	H	DTP: 55.05	AB
22	HEN_22	4/15/24	0825	15.84	21615497	yes	448.94	Y	H	DTP: 27.19	AB
17	HEN_17	4/15/24	0935	55.09	21615500	yes	452.27	Y	H	DTP: 61.79	AB
47	HEN_47	4/15/24	0930	53.22	21615505	yes 449.7	[illegible]	Y	H	DTP: 57.65	AB
34	HEN_34				21615509						
35	HEN_35	4/15/24	0800	5.84	21615510	yes	449.26	Y	H	DTP: 16.15	AB
13	HEN_13	4/15/24	1012	48.72	21615515	yes	449.35	Y	H	DTP: 61.90	AB
12	HEN_12	4/15/24	1015	48.75	21615520	yes	450.00	Y	H	DTP: 514	AB
16	HEN_16	4/15/24	0930	51.76	21615534	yes	449.81	Y	H	DTP: 60.88	AB
27	HEN_27				21615576						
08D	HEN_08&D	4/15/24	0910	51.58	21615598	21921673	449.88	Y	H	DTP 84.09	AB
23	HEN_23	4/15/24	0835	14.43	21615600	yes	449.24	Y	H	DTP: 35.37	AB
51	HEN_51	4/15/24	0840	15.90	21615608	yes	449.21	Y	H	DTP: 58.33	AB
18D	HEN_18&D	4/15/24	1052	38.02	21615609	yes	449.37	Y	H	DTP: 72.12	AB
55	HEN_55	4/15/24	1010	49.47	21615612	yes	449.50	Y	H	DTP: 92.45	AB
21R	HEN_21R	4/15/24	0845	3.31	21615613	yes	449.09	Y	H	DTP: 45.32	AB
49	HEN_49	4/15/24	0832	19.15	21629307	yes	449.28	Y	H	DTP: 38.62	AB
XSG01	HEN_XSG01	4/15/24	0955	10.42	21768087	yes	483.46	Y	H	[illegible]	AB
SG02	HEN_YSG_ILRIVER	4/15/24	1145	19.85	21768088	yes	13.16	Y	H	—	AB

U: 12/19/23 JRK

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 05/20/24 14:46:20

JOB DESCRIPTION

HEN-24Q2
HEN_000_RAD

JOB NUMBER

500-249028-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

myEOL

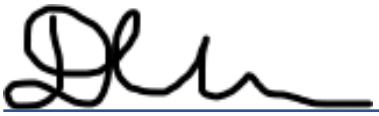
Eurofins Chicago

Job Notes

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Case Narrative

Client: Vistra Energy Corp
Project: HEN-24Q2

Job ID: 500-249028-2

Job ID: 500-249028-2 — Eurofins Chicago

Job Narrative
500-249028-2

Receipt
The samples were received on 04/16/24 11:25. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 9 coolers at receipt time were 3.3º C, 4.0º C, 4.2º C, 4.6º C, 4.8º C, 4.8º C, 5.2º C, 5.4º C and 5.6º C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed for sample: HEN_02 (500-249028-13) COC received with sampling time of 1330. Field Data form stated sampling time was 1320. Per field sampler, correct sampling time is 1320.

RAD
Method PrecSep_0: Samples are in batch 657670

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

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R — Lab Sample ID: 500-249028-1

No Detections.

Client Sample ID: HEN_03R_FD — Lab Sample ID: 500-249028-2

No Detections.

Client Sample ID: HEN_12 — Lab Sample ID: 500-249028-5

No Detections.

Client Sample ID: HEN_13 — Lab Sample ID: 500-249028-6

No Detections.

Client Sample ID: HEN_18#S — Lab Sample ID: 500-249028-7

No Detections.

Client Sample ID: HEN_18&D — Lab Sample ID: 500-249028-8

No Detections.

Client Sample ID: HEN_45#S — Lab Sample ID: 500-249028-10

No Detections.

Client Sample ID: HEN_46 — Lab Sample ID: 500-249028-11

No Detections.

Client Sample ID: HEN_47 — Lab Sample ID: 500-249028-12

No Detections.

Client Sample ID: HEN_07 — Lab Sample ID: 500-249028-14

No Detections.

Client Sample ID: HEN_08 — Lab Sample ID: 500-249028-15

No Detections.

Client Sample ID: HEN_08&D — Lab Sample ID: 500-249028-16

No Detections.

Client Sample ID: HEN_16 — Lab Sample ID: 500-249028-18

No Detections.

Client Sample ID: HEN_16_FD — Lab Sample ID: 500-249028-19

No Detections.

Client Sample ID: HEN_17 — Lab Sample ID: 500-249028-20

No Detections.

Client Sample ID: HEN_52 — Lab Sample ID: 500-249028-21

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54 — Lab Sample ID: 500-249028-22

No Detections.

Client Sample ID: HEN_54_FD — Lab Sample ID: 500-249028-23

No Detections.

Client Sample ID: HEN_FB — Lab Sample ID: 500-249028-24

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_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: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-249028-1	HEN_03R	Water	04/15/24 15:55	04/16/24 11:25
500-249028-2	HEN_03R_FD	Water	04/15/24 16:15	04/16/24 11:25
500-249028-5	HEN_12	Water	04/15/24 18:15	04/16/24 11:25
500-249028-6	HEN_13	Water	04/15/24 17:25	04/16/24 11:25
500-249028-7	HEN_18#S	Water	04/15/24 14:48	04/16/24 11:25
500-249028-8	HEN_18&D	Water	04/15/24 13:44	04/16/24 11:25
500-249028-10	HEN_45#S	Water	04/15/24 16:05	04/16/24 11:25
500-249028-11	HEN_46	Water	04/15/24 18:00	04/16/24 11:25
500-249028-12	HEN_47	Water	04/15/24 17:10	04/16/24 11:25
500-249028-14	HEN_07	Water	04/16/24 10:05	04/16/24 16:30
500-249028-15	HEN_08	Water	04/16/24 11:00	04/16/24 16:30
500-249028-16	HEN_08&D	Water	04/16/24 10:10	04/16/24 16:30
500-249028-18	HEN_16	Water	04/16/24 11:00	04/16/24 16:30
500-249028-19	HEN_16_FD	Water	04/16/24 11:05	04/16/24 16:30
500-249028-20	HEN_17	Water	04/16/24 11:50	04/16/24 16:30
500-249028-21	HEN_52	Water	04/16/24 12:20	04/16/24 16:30
500-249028-22	HEN_54	Water	04/16/24 12:35	04/16/24 16:30
500-249028-23	HEN_54_FD	Water	04/16/24 12:35	04/16/24 16:30
500-249028-24	HEN_FB	Water	04/16/24 14:30	04/16/24 16:30

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R

Date Collected: 04/15/24 15:55
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.217		0.0999	0.102	1.00	0.115	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.818		0.416	0.423	1.00	0.568	pCi/L	04/18/24 08:56	05/10/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*
Y Carrier	*82.2*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.04		0.428	0.435	5.00	0.568	pCi/L		05/20/24 13:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD

Date Collected: 04/15/24 16:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.131		0.0877	0.0885	1.00	0.120	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.2*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.848		0.433	0.440	1.00	0.594	pCi/L	04/18/24 08:56	05/10/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*82.2*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*
Y Carrier	*84.1*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.979		0.442	0.449	5.00	0.594	pCi/L		05/20/24 13:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_12
Date Collected: 04/15/24 18:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-5
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0772	U	0.0698	0.0701	1.00	0.106	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.512	U	0.346	0.350	1.00	0.515	pCi/L	04/18/24 08:56	05/10/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*
Y Carrier	*83.0*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.590**		0.353	0.357	5.00	0.515	pCi/L		05/20/24 13:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_13
Date Collected: 04/15/24 17:25
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-6
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0634	U	0.0665	0.0668	1.00	0.105	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	-0.563	U	0.181	0.188	1.00	0.554	pCi/L	04/18/24 08:56	05/10/24 12:16	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*
Y Carrier	*81.9*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:16*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0634	U	0.193	0.200	5.00	0.554	pCi/L		05/20/24 13:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S

Date Collected: 04/15/24 14:48
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-7

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.153**		0.0917	0.0927	1.00	0.123	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.9*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.541	U	0.442	0.444	1.00	0.696	pCi/L	04/18/24 08:56	05/10/24 12:17	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.9*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:17*	*1*
Y Carrier	*82.6*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:17*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.693	U	0.451	0.454	5.00	0.696	pCi/L		05/20/24 13:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18&D

Date Collected: 04/15/24 13:44
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-8

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.170		0.0945	0.0958	1.00	0.121	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.664		0.410	0.414	1.00	0.604	pCi/L	04/18/24 08:56	05/10/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*
Y Carrier	*80.7*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.834		0.421	0.425	5.00	0.604	pCi/L		05/20/24 13:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_45#S

Date Collected: 04/15/24 16:05
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-10

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.195**		0.0948	0.0964	1.00	0.110	pCi/L	04/18/24 08:50	05/17/24 17:34	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:34*	*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	0.156	U	0.309	0.310	1.00	0.538	pCi/L	04/18/24 08:56	05/10/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*
Y Carrier	*84.9*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.351	U	0.323	0.325	5.00	0.538	pCi/L		05/20/24 13:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46
Date Collected: 04/15/24 18:00
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-11
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.184		0.0946	0.0960	1.00	0.115	pCi/L	04/18/24 08:50	05/17/24 17:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:33*	*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	0.252	U	0.360	0.361	1.00	0.606	pCi/L	04/18/24 08:56	05/10/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.1*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*
Y Carrier	*83.4*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.436	U	0.372	0.374	5.00	0.606	pCi/L		05/20/24 13:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_47
Date Collected: 04/15/24 17:10
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-12
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.104	U	0.0751	0.0757	1.00	0.105	pCi/L	04/18/24 08:50	05/17/24 17:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:56*	*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	0.298	U	0.313	0.315	1.00	0.508	pCi/L	04/18/24 08:56	05/10/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.5*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*
Y Carrier	*83.4*		*30 - 110*	*04/18/24 08:56*	*05/10/24 12:08*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.402	U	0.322	0.324	5.00	0.508	pCi/L		05/20/24 13:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_07

Date Collected: 04/16/24 10:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-14

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.278		0.120	0.122	1.00	0.142	pCi/L	04/19/24 08:06	05/15/24 07:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.1*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:46*	*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	1.03		0.398	0.409	1.00	0.484	pCi/L	04/19/24 08:10	05/06/24 12:54	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.1*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:54*	*1*
Y Carrier	*85.6*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:54*	*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	1.30		0.416	0.427	5.00	0.484	pCi/L		05/15/24 07:31	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08

Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-15

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.311		0.101	0.104	1.00	0.0891	pCi/L	04/19/24 08:06	05/15/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.04		0.394	0.405	1.00	0.494	pCi/L	04/19/24 08:10	05/06/24 12:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*1*
Y Carrier	*83.4*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*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	1.35		0.407	0.418	5.00	0.494	pCi/L		05/15/24 07:31	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08&D

Date Collected: 04/16/24 10:10
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-16

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0637	U	0.0771	0.0773	1.00	0.127	pCi/L	04/19/24 08:06	05/15/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.350	U	0.361	0.362	1.00	0.584	pCi/L	04/19/24 08:10	05/06/24 12:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*1*
Y Carrier	*87.1*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*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	0.413	U	0.369	0.370	5.00	0.584	pCi/L		05/15/24 07:31	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16

Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-18

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0436	U	0.0589	0.0591	1.00	0.0991	pCi/L	04/19/24 08:06	05/15/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.594**		0.345	0.349	1.00	0.491	pCi/L	04/19/24 08:10	05/06/24 12:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*1*
Y Carrier	*86.4*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*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	**0.637**		0.350	0.354	5.00	0.491	pCi/L		05/15/24 07:31	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16_FD

Date Collected: 04/16/24 11:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-19

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.210		0.0941	0.0960	1.00	0.108	pCi/L	04/19/24 08:06	05/15/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.4*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.766		0.380	0.387	1.00	0.515	pCi/L	04/19/24 08:10	05/06/24 12:51	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.4*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*1*
Y Carrier	*82.2*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:51*	*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	0.976		0.391	0.399	5.00	0.515	pCi/L		05/15/24 07:31	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_17

Date Collected: 04/16/24 11:50
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-20

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0181	U	0.0805	0.0805	1.00	0.149	pCi/L	04/19/24 08:06	05/15/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.1*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**1.08**		0.421	0.432	1.00	0.525	pCi/L	04/19/24 08:10	05/06/24 12:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.1*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*1*
Y Carrier	*85.6*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*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	**1.09**		0.429	0.439	5.00	0.525	pCi/L		05/15/24 07:31	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_52

Date Collected: 04/16/24 12:20
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-21

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.139		0.0939	0.0947	1.00	0.134	pCi/L	04/19/24 08:06	05/15/24 07:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:46*	*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	1.19		0.463	0.476	1.00	0.605	pCi/L	04/19/24 08:10	05/06/24 12:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*1*
Y Carrier	*84.5*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*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	1.33		0.472	0.485	5.00	0.605	pCi/L		05/15/24 07:31	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54

Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-22

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.149**		0.0845	0.0855	1.00	0.112	pCi/L	04/19/24 08:06	05/15/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:38*	*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	0.402	U	0.318	0.320	1.00	0.489	pCi/L	04/19/24 08:10	05/06/24 12:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.7*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*1*
Y Carrier	*87.5*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*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	**0.551**		0.329	0.331	5.00	0.489	pCi/L		05/15/24 07:31	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54_FD
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-23
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.137		0.0848	0.0857	1.00	0.117	pCi/L	04/19/24 08:06	05/15/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:38*	*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	0.841		0.444	0.451	1.00	0.648	pCi/L	04/19/24 08:10	05/06/24 12:52	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*1*
Y Carrier	*86.0*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:52*	*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	0.978		0.452	0.459	5.00	0.648	pCi/L		05/15/24 07:31	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_FB
Date Collected: 04/16/24 14:30
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-24
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0408	U	0.0652	0.0653	1.00	0.113	pCi/L	04/19/24 08:06	05/15/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:38*	*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	0.243	U	0.326	0.327	1.00	0.546	pCi/L	04/19/24 08:10	05/06/24 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.3*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:32*	*1*
Y Carrier	*86.0*		*30 - 110*	*04/19/24 08:10*	*05/06/24 12:32*	*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	0.283	U	0.332	0.333	5.00	0.546	pCi/L		05/15/24 07:31	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
HEN-257803
SDG: HEN_000_RAD

Qualifiers

Rad

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

Glossary

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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Rad

Prep Batch: 657596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-1	HEN_03R	Total/NA	Water	PrecSep-21	
500-249028-2	HEN_03R_FD	Total/NA	Water	PrecSep-21	
500-249028-5	HEN_12	Total/NA	Water	PrecSep-21	
500-249028-6	HEN_13	Total/NA	Water	PrecSep-21	
500-249028-7	HEN_18#S	Total/NA	Water	PrecSep-21	
500-249028-8	HEN_18&D	Total/NA	Water	PrecSep-21	
500-249028-10	HEN_45#S	Total/NA	Water	PrecSep-21	
500-249028-11	HEN_46	Total/NA	Water	PrecSep-21	
500-249028-12	HEN_47	Total/NA	Water	PrecSep-21	
MB 160-657596/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-657596/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-249028-2 DU	HEN_03R_FD	Total/NA	Water	PrecSep-21	

Prep Batch: 657597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-1	HEN_03R	Total/NA	Water	PrecSep_0	
500-249028-2	HEN_03R_FD	Total/NA	Water	PrecSep_0	
500-249028-5	HEN_12	Total/NA	Water	PrecSep_0	
500-249028-6	HEN_13	Total/NA	Water	PrecSep_0	
500-249028-7	HEN_18#S	Total/NA	Water	PrecSep_0	
500-249028-8	HEN_18&D	Total/NA	Water	PrecSep_0	
500-249028-10	HEN_45#S	Total/NA	Water	PrecSep_0	
500-249028-11	HEN_46	Total/NA	Water	PrecSep_0	
500-249028-12	HEN_47	Total/NA	Water	PrecSep_0	
MB 160-657597/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-657597/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-249028-2 DU	HEN_03R_FD	Total/NA	Water	PrecSep_0	

Prep Batch: 657669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-14	HEN_07	Total/NA	Water	PrecSep-21	
500-249028-15	HEN_08	Total/NA	Water	PrecSep-21	
500-249028-16	HEN_08&D	Total/NA	Water	PrecSep-21	
500-249028-18	HEN_16	Total/NA	Water	PrecSep-21	
500-249028-19	HEN_16_FD	Total/NA	Water	PrecSep-21	
500-249028-20	HEN_17	Total/NA	Water	PrecSep-21	
500-249028-21	HEN_52	Total/NA	Water	PrecSep-21	
500-249028-22	HEN_54	Total/NA	Water	PrecSep-21	
500-249028-23	HEN_54_FD	Total/NA	Water	PrecSep-21	
500-249028-24	HEN_FB	Total/NA	Water	PrecSep-21	
MB 160-657669/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-657669/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 657670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-14	HEN_07	Total/NA	Water	PrecSep_0	
500-249028-15	HEN_08	Total/NA	Water	PrecSep_0	
500-249028-16	HEN_08&D	Total/NA	Water	PrecSep_0	
500-249028-18	HEN_16	Total/NA	Water	PrecSep_0	
500-249028-19	HEN_16_FD	Total/NA	Water	PrecSep_0	
500-249028-20	HEN_17	Total/NA	Water	PrecSep_0	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Rad (Continued)

Prep Batch: 657670 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-249028-21	HEN_52	Total/NA	Water	PrecSep_0	
500-249028-22	HEN_54	Total/NA	Water	PrecSep_0	
500-249028-23	HEN_54_FD	Total/NA	Water	PrecSep_0	
500-249028-24	HEN_FB	Total/NA	Water	PrecSep_0	
MB 160-657670/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-657670/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-657596/1-A
Matrix: Water
Analysis Batch: 662207

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657596

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.0007863	U	0.0639	0.0639	1.00	0.129	pCi/L	04/18/24 08:50	05/17/24 17:33	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*04/18/24 08:50*	*05/17/24 17:33*	*1*

Lab Sample ID: LCS 160-657596/2-A
Matrix: Water
Analysis Batch: 662207

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657596

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.26		1.17	1.00	0.127	pCi/L	99	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.4*		*30 - 110*

Lab Sample ID: 500-249028-2 DU
Matrix: Water
Analysis Batch: 662207

Client Sample ID: HEN_03R_FD
Prep Type: Total/NA
Prep Batch: 657596

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.131			0.1381		0.0871	1.00	0.118	pCi/L			0.04	1

Carrier	*DU %Yield*	*DU Qualifier*	*Limits*
Ba Carrier	*98.0*		*30 - 110*

Lab Sample ID: MB 160-657669/1-A
Matrix: Water
Analysis Batch: 661646

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657669

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.04735	U	0.0534	0.0536	1.00	0.0854	pCi/L	04/19/24 08:06	05/15/24 07:30	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.7*		*30 - 110*	*04/19/24 08:06*	*05/15/24 07:30*	*1*

Lab Sample ID: LCS 160-657669/2-A
Matrix: Water
Analysis Batch: 661646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657669

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	11.10		1.15	1.00	0.0918	pCi/L	98	75 - 125		

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

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

Lab Sample ID: LCS 160-657669/2-A
Matrix: Water
Analysis Batch: 661646

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657669

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.4		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-657597/1-A
Matrix: Water
Analysis Batch: 661118

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657597

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3827	U	0.395	0.396	1.00	0.639	pCi/L	04/18/24 08:56	05/10/24 12:16	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	87.6		30 - 110	04/18/24 08:56	05/10/24 12:16	1
Y Carrier	82.6		30 - 110	04/18/24 08:56	05/10/24 12:16	1

Lab Sample ID: LCS 160-657597/2-A
Matrix: Water
Analysis Batch: 661118

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657597

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.95	9.256		1.27	1.00	0.487	pCi/L	103	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.4		30 - 110
Y Carrier	84.9		30 - 110

Lab Sample ID: 500-249028-2 DU
Matrix: Water
Analysis Batch: 661118

Client Sample ID: HEN_03R_FD
Prep Type: Total/NA
Prep Batch: 657597

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.848			1.010		0.454	1.00	0.604	pCi/L			0.18	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	98.0		30 - 110
Y Carrier	81.9		30 - 110

Lab Sample ID: MB 160-657670/1-A
Matrix: Water
Analysis Batch: 660062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657670

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.5136		0.330	0.333	1.00	0.485	pCi/L	04/19/24 08:10	05/06/24 12:34	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

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

Lab Sample ID: MB 160-657670/1-A
Matrix: Water
Analysis Batch: 660062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 657670

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	97.7		30 - 110	04/19/24 08:10	05/06/24 12:34	1
Y Carrier	83.4		30 - 110	04/19/24 08:10	05/06/24 12:34	1

Lab Sample ID: LCS 160-657670/2-A
Matrix: Water
Analysis Batch: 660062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 657670

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.97	9.488		1.28	1.00	0.472	pCi/L	106	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	94.4		30 - 110
Y Carrier	86.0		30 - 110

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_03R
Date Collected: 04/15/24 15:55
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661118	SCB	EET SL	05/10/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_03R_FD
Date Collected: 04/15/24 16:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661118	SCB	EET SL	05/10/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_12
Date Collected: 04/15/24 18:15
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661118	SCB	EET SL	05/10/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_13
Date Collected: 04/15/24 17:25
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661118	SCB	EET SL	05/10/24 12:16
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S
Date Collected: 04/15/24 14:48
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661118	SCB	EET SL	05/10/24 12:17
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_18&D
Date Collected: 04/15/24 13:44
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661128	FLC	EET SL	05/10/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_45#S
Date Collected: 04/15/24 16:05
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662207	SWS	EET SL	05/17/24 17:34
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661128	FLC	EET SL	05/10/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_46
Date Collected: 04/15/24 18:00
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662204	SWS	EET SL	05/17/24 17:33
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661128	FLC	EET SL	05/10/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_47
Date Collected: 04/15/24 17:10
Date Received: 04/16/24 11:25

Lab Sample ID: 500-249028-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657596	MLT	EET SL	04/18/24 08:50
Total/NA	Analysis	903.0		1	662208	SWS	EET SL	05/17/24 17:56
Total/NA	Prep	PrecSep_0			657597	MLT	EET SL	04/18/24 08:56
Total/NA	Analysis	904.0		1	661128	FLC	EET SL	05/10/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	662563	EMH	EET SL	05/20/24 13:46

Client Sample ID: HEN_07
Date Collected: 04/16/24 10:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:46
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:54
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_08
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:45
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_08&D
Date Collected: 04/16/24 10:10
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:45
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_16
Date Collected: 04/16/24 11:00
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:45
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_16_FD
Date Collected: 04/16/24 11:05
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:45
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:51
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_17
Date Collected: 04/16/24 11:50
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:45
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_52
Date Collected: 04/16/24 12:20
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661817	SWS	EET SL	05/15/24 07:46
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661816	SWS	EET SL	05/15/24 07:38
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_54_FD
Date Collected: 04/16/24 12:35
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661816	SWS	EET SL	05/15/24 07:38
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660322	FLC	EET SL	05/06/24 12:52
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

Client Sample ID: HEN_FB
Date Collected: 04/16/24 14:30
Date Received: 04/16/24 16:30

Lab Sample ID: 500-249028-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			657669	MLT	EET SL	04/19/24 08:06
Total/NA	Analysis	903.0		1	661816	SWS	EET SL	05/15/24 07:38
Total/NA	Prep	PrecSep_0			657670	MLT	EET SL	04/19/24 08:10
Total/NA	Analysis	904.0		1	660062	FLC	EET SL	05/06/24 12:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	661775	FLC	EET SL	05/15/24 07:31

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: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_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

500-249028

HEN-257-803

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E 800th St Hennepin, IL 61327	Copy To:	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name:	Vistra Corp
				Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	50023030	Profile #:	

500 249028 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_RAD_000	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
~~1~~	~~HEN_02~~																						X			A			~~SHORT HOLD-NO2~~
1	HEN_03R	WT	G	4/15/24	1555		15										X				X		X		X	B			SHORT HOLD-NO2
2	HEN_03R_FD	"	"	"	1615		15										X				X		X		X	B			SHORT HOLD-NO2
3	HEN_05IR				1432		11													X						E			SHORT HOLD-NO2
4	HEN_05&DR				1515		11													X						E			SHORT HOLD-NO2
	~~HEN_07~~																X	X			X	X		X	X	B			~~SHORT HOLD-NO2~~
	~~HEN_08~~																X	X		X	X	X		X		C			~~SHORT HOLD-NO2~~
	~~HEN_08&D~~																X	X		X	X	X		X		C			~~SHORT HOLD-NO2~~
	~~HEN_10~~																			X				X		D			~~SHORT HOLD-NO2~~
5	HEN_12	WT	G	4/15/24	1815		13											X		X		X				F			SHORT HOLD-NO2
6	HEN_13	"	"	"	1725		13											X		X		X				F			SHORT HOLD-NO2
	~~HEN_16~~																	X				X				G			
	~~HEN_16_FD~~																	X				X				G			
	~~HEN_17~~																	X				X				G			
7	HEN_18#S	WT	G	4/15/24	1448		15										X				X		X		X	B			SHORT HOLD-NO2
8	HEN_18&D	"	"	"	1344		15										X				X		X		X	B			SHORT HOLD-NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	ABeckett	4/16/24	0930				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett DATE Signed (MM/DD/YY): 4/16/24 @ 0930

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

Jason Bleha 4/16/24 0930 EETA

Allison Nichols 4/16/24 1125 EETA

Allison Scott 4/16/24 1125 EETA

5.2 → 4.8
5.0 → 4.6
4.6 → 4.2
5.8 → 5.4
6.0 → 5.6

560-244028

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 2 of 3

Section A Required Client Information.

Company:	Vistra Corp-Hennepin
Address:	13498 E 800th St
	Hennepin, IL 61327
Email To:	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax
Requested Due Date/TAT	10 day

Section B Required Project Information:

Report To	Brian Voelker
Copy To:	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com
Purchase Order No.	
Project Name	
Project Number:	50023030

Section C Invoice Information.

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_24R~~																		X				X		X	X	H		
	~~HEN_22~~																		X				X		X	X	H		
	~~HEN_22&D~~																		X				X		X	X	H		
	~~HEN_23~~																		X				X		X	X	H		
	~~HEN_25~~																		X								J		~~DTW ONLY~~
	~~HEN_26~~																		X								J		~~DTW ONLY~~
	~~HEN_27~~																		X				X		X	X	H		
	~~HEN_30~~																		X								J		~~DTW ONLY~~
	~~HEN_31~~																		X								J		~~DTW ONLY~~
	~~HEN_32~~																		X				X		X	X	H		
	~~HEN_33~~																		X								J		~~DTW ONLY~~
	~~HEN_34~~																		X				X		X	X	H		
	~~HEN_35~~																		X				X		X	X	H		
	~~HEN_35_FD~~																		X				X		X	X	H		
	~~HEN_36~~																		X								J		~~DTW ONLY~~
9	HEN_40#S	WTG		4/15/24	1345		11													X							E		SHORT HOLD-NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	[signature]	4/16/24	0930				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [illegible] BELNETT

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 4/16/24 @ 0930

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

[signature] 4/16/24 0930 EETA

[signature] 4/16/24 1125 EETA

[signature] 4/16/24 1125 EETA

500 - 249028

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 3 of 3

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Hennepin	Report To	Brian Voelker	Attention	Jason Stuckey
Address	13498 E 800th St	Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327			Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

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

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

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
10	HEN_45#S	WT	G	4/15/24	1005		15										X				X			X		X	B		SHORT HOLD-NO2
11	HEN_46	↓	↓	↓	1800		6											X				X				X	G		
12	HEN_47	↓	↓	↓	1710		6											X				X				X	G		
	~~HEN_49~~																		X				X		X	X	H		
	~~HEN_50~~																		X				X		X	X	H		
	~~HEN_51~~																		X				X		X	X	H		
	~~HEN_52~~																	X				X				X	G		
	HEN_54																	X				X				X	G		
	HEN_54_FD																	X				X				X	G		
	~~HEN_55~~																	X				X					J		DTW ONLY
	~~HEN_XSG01~~																	X				X					J		DTW ONLY
	~~HEN_YSG_ILRIVER~~																X	X	X		X	X	X	X	X		J		DTW ONLY
	~~HEN_FB~~																			X	X			X		X	C		SHORT HOLD-NO2
	~~HEN_TB~~																							X			A		BTEX ONLY

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	[signature]	4/16/24	0930				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Bickett

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4/15/24 0930

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

Jason Bickett 4/16/24 0930 EETA

Jason Bickett 4/16/24 1125 EETA

[signature] 4/16/24 1125 EETA

500-249028 B

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 2

Section A Required Client Information.		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address	13498 E 800th St	Copy To	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327			Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax	Project Name:		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

500-249028 COC

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

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_RAD_000	HEN_000			Residual Chlorine (Y/N)	Project No./ Lab I.D.
13	HEN_02	WT	G	4/16/24	1330		10																		X			A			SHORT HOLD-NO2
	~~HEN_03R~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~
	~~HEN_03R_FD~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~
	~~HEN_05IR~~																				X							E			~~SHORT HOLD-NO2~~
	~~HEN_05&DR~~																				X							E			~~SHORT HOLD-NO2~~
14	HEN_07	WT	G	4/16/24	1005		15											X	X			X	X		X		X	B			SHORT HOLD-NO2
15	HEN_08	↓	↓	↓	1100		17											X	X		X	X	X		X		X	C			SHORT HOLD-NO2
16	HEN_08&D				1010		17											X	X		X	X	X		X		X	C			SHORT HOLD-NO2
17	HEN_10				1305		15														X				X			D			SHORT HOLD-NO2
	~~HEN_12~~																		X		X		X			X		F			~~SHORT HOLD-NO2~~
	~~HEN_13~~																		X		X		X			X		F			~~SHORT HOLD-NO2~~
18	HEN_16	WT	G	4/16/24	1100		6												X				X				X	G			
19	HEN_16_FD				1105		6												X				X				X	G			
20	HEN_17				1150		6												X				X				X	G			
	~~HEN_18#S~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~
	~~HEN_18&D~~																	X				X			X		X	B			~~SHORT HOLD-NO2~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	Becket	4/16/24	1630				

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:	Allison Becket					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY) 4/16/24				

5.6 → 5.2
3.7 → 3.3
4.4 → 4.0
5.2 → 4.8

Relinquished by: Becket 4/16/24 1630
Received by: [illegible] 4/16/24 1630

CHAIN-OF-CUSTODY / Analytical Request Document

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500240028

Page 2 of 2

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To	Brian Voelker	Attention	Jason Stuckey
Address	13498 E. 800th St Hennepin, IL 61327	Copy To:	Jason Stuckey Jason.Stuckey@vistracorp.com Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
				Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.		Quote Reference:	
Phone	(217) 753-8911 Fax	Project Name		Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

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

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_45#S~~																X				X			X		X	B		~~SHORT HOLD-NO2~~
	~~HEN_46~~																	X				X					X	G		
	~~HEN_47~~																	X				X					X	G		
	~~HEN_48~~																		X				X		X	X	X	H		
	~~HEN_50~~																		X				X		X	X	X	H		
	~~HEN_51~~																		X				X		X	X	X	H		
21	HEN_52	WT	G	4/16/24	1220		6											X				X				X	G		
22	HEN_54	↓	↓	↓	1235		6											X				X				X	G		
23	HEN_54_FD	↓	↓	↓	1235		6											X				X				X	G		
	~~HEN_55~~																	X				X			>		J		~~DTW ONLY~~
	~~HEN_XBG01~~																	X				X					J		~~DTW ONLY~~
	~~HEN_YSG_ILRIVER~~																X	X	X		X	X	X	X	X		J		~~DTW ONLY~~
24	HEN_FB	WT	G	4/16/24	1430		17													X	X			X		X	C		SHORT HOLD-NO2
	~~HEN_TB~~																							X			A		BTEX ONLY
25	HEN_TB1																												Added by EESA
26	HEN_TB2																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	Beckett	4/16/24	1630				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Allison Beckett

SIGNATURE of SAMPLER: Beckett DATE Signed (MM/DD/YY): 4/16/24

Lorne Filing 1430

David Filing 1630 Allison Scott 4/16/24 1630

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

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/15/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_03R (500-249028-1)	4/15/24	15:55 Central		Water			X	X	X	2	
HEN_03R_FD (500-249028-2)	4/15/24	16:15 Central		Water			X	X	X	2	
HEN_12 (500-249028-5)	4/15/24	18:15 Central		Water			X	X	X	2	
HEN_13 (500-249028-6)	4/15/24	17:25 Central		Water			X	X	X	2	
HEN_18#S (500-249028-7)	4/15/24	14:40 Central		Water			X	X	X	2	
HEN_18&D (500-249028-8)	4/15/24	13:44 Central		Water			X	X	X	2	
HEN_45#S (500-249028-10)	4/15/24	16:05 Central		Water			X	X	X	2	

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Stephanie Hernandez	4/16/24 1630	EETA	Richard Thornley	APR 17 2024 0820	ETASL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 4/30/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_46 (500-249028-11)	4/15/24	18:00 Central		Water			X	X	X	2	
HEN_47 (500-249028-12)	4/15/24	17:10 Central		Water			X	X	X	2	

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Stephanie Hemrmdez	4/16/24 1630	EEIA	Richard Thornley	APR 17 2024 0820	EEASTL
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-2
Address: 13715 Rider Trail North,	Due Date Requested: 5/15/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_03R (500-249028-1)	4/15/24	15:55 Central		Water			X	X	X	2	
HEN_03R_FD (500-249028-2)	4/15/24	16:15 Central		Water			X	X	X	2	
HEN_12 (500-249028-5)	4/15/24	18:15 Central		Water			X	X	X	2	
HEN_13 (500-249028-6)	4/15/24	17:25 Central		Water			X	X	X	2	
HEN_18#S (500-249028-7)	4/15/24	14:40 Central		Water			X	X	X	2	
HEN_18&D (500-249028-8)	4/15/24	13:44 Central		Water			X	X	X	2	
HEN_45#S (500-249028-10)	4/15/24	16:05 Central		Water			X	X	X	2	

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

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by: Stephanie Hernandez	Date/Time: 4/16/24 1630	Company: EETA	Received by: Richard Thornley	Date/Time: APR 17 2024 0800	Company: ETA STL
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187037.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 4/30/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_46 (500-249028-11)	4/15/24	18:00 Central		Water			X	X	X	2	
HEN_47 (500-249028-12)	4/15/24	17:10 Central		Water			X	X	X	2	

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Stephanie Hemrmdez	4/16/24 1630	EETA	Richard Thornley	APR 17 2024 0820	ETASTL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

05/20/24

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187070.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/15/2024	Analysis Requested		Preservation Codes: -
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			Other:
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_07 (500-249028-14)	4/16/24	10:05 Central		Water			X	X	X	2	
HEN_08 (500-249028-15)	4/16/24	11:00 Central		Water			X	X	X	2	
HEN_08&D (500-249028-16)	4/16/24	10:10 Central		Water			X	X	X	2	
HEN_16 (500-249028-18)	4/16/24	11:00 Central		Water			X	X	X	2	
HEN_16_FD (500-249028-19)	4/16/24	11:05 Central		Water			X	X	X	2	
HEN_17 (500-249028-20)	4/16/24	11:50 Central		Water			X	X	X	2	
HEN_52 (500-249028-21)	4/16/24	12:20 Central		Water			X	X	X	2	
HEN_54 (500-249028-22)	4/16/24	12:35 Central		Water			X	X	X	2	
HEN_54_FD (500-249028-23)	4/16/24	12:35 Central		Water			X	X	X	2	

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

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: APR 18 2024 0840	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-187070.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-249028-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 5/15/2024			Preservation Codes: -
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_FB (500-249028-24)	4/16/24	14:30 Central		Water			X	X	X	2	

Analysis Requested

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

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by	Date/Time	Company
Shin Scott	4/17/24 1240				
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: APR 18 2024 0840	Company
Relinquished by:	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-249028-2
SDG Number: HEN_000_RAD

Login Number: 249028
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	4.8,4.6,4.2,5.4,5.6,5.2,3.3,4.0,4.8
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-249028-2
SDG Number: HEN_000_RAD

Login Number: 249028
List Number: 3
Creator: Thornley, Richard W

List Source: Eurofins St. Louis
List Creation: 04/17/24 02:37 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: 500-249028-2
SDG Number: HEN_000_RAD

Login Number: 249028
List Number: 5
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 04/18/24 01:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	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
Project/Site: HEN-24Q2

Job ID: 500-249028-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)						
Lab Sample ID	Client Sample ID	Ba (30-110)						
500-249028-1	HEN_03R	85.8						
500-249028-2	HEN_03R_FD	82.2						
500-249028-2 DU	HEN_03R_FD	98.0						
500-249028-5	HEN_12	96.7						
500-249028-6	HEN_13	90.9						
500-249028-7	HEN_18#S	93.9						
500-249028-8	HEN_18&D	88.6						
500-249028-10	HEN_45#S	88.6						
500-249028-11	HEN_46	88.1						
500-249028-12	HEN_47	98.5						
500-249028-14	HEN_07	89.1						
500-249028-15	HEN_08	101						
500-249028-16	HEN_08&D	90.6						
500-249028-18	HEN_16	92.6						
500-249028-19	HEN_16_FD	95.4						
500-249028-20	HEN_17	91.1						
500-249028-21	HEN_52	94.9						
500-249028-22	HEN_54	96.7						
500-249028-23	HEN_54_FD	97.7						
500-249028-24	HEN_FB	89.3						
LCS 160-657596/2-A	Lab Control Sample	95.4						
LCS 160-657669/2-A	Lab Control Sample	94.4						
MB 160-657596/1-A	Method Blank	87.6						
MB 160-657669/1-A	Method Blank	97.7						

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)						
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)					
500-249028-1	HEN_03R	85.8	82.2					
500-249028-2	HEN_03R_FD	82.2	84.1					
500-249028-2 DU	HEN_03R_FD	98.0	81.9					
500-249028-5	HEN_12	96.7	83.0					
500-249028-6	HEN_13	90.9	81.9					
500-249028-7	HEN_18#S	93.9	82.6					
500-249028-8	HEN_18&D	88.6	80.7					
500-249028-10	HEN_45#S	88.6	84.9					
500-249028-11	HEN_46	88.1	83.4					
500-249028-12	HEN_47	98.5	83.4					
500-249028-14	HEN_07	89.1	85.6					
500-249028-15	HEN_08	101	83.4					
500-249028-16	HEN_08&D	90.6	87.1					
500-249028-18	HEN_16	92.6	86.4					
500-249028-19	HEN_16_FD	95.4	82.2					
500-249028-20	HEN_17	91.1	85.6					

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-249028-2
HEN-257803
SDG: HEN_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)
500-249028-21	HEN_52	94.9	84.5
500-249028-22	HEN_54	96.7	87.5
500-249028-23	HEN_54_FD	97.7	86.0
500-249028-24	HEN_FB	89.3	86.0
LCS 160-657597/2-A	Lab Control Sample	95.4	84.9
LCS 160-657670/2-A	Lab Control Sample	94.4	86.0
MB 160-657597/1-A	Method Blank	87.6	82.6
MB 160-657670/1-A	Method Blank	97.7	83.4

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 07/01/24 16:51:15

JOB DESCRIPTION

HEN-24Q2
HEN_000_RAD

JOB NUMBER

500-251407-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

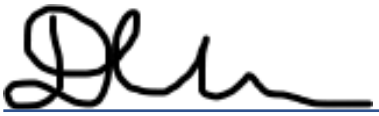
Eurofins Chicago

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



Generated
07/01/24 16:51:15

Authorized for release by
Dirk Nelson, Project Management Assistant II
Dirk.Nelson@et.eurofinsus.com
(708)534-5200

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Case Narrative

Client: Vistra Energy Corp
Project: HEN-24Q2

Job ID: 500-251407-2

Job ID: 500-251407-2 — Eurofins Chicago

Job Narrative
500-251407-2

Receipt
The samples were received on 05/31/24 09:21. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.8º C, 3.8º C, 4.2º C and 5.4º C.

Receipt Exceptions
The following samples (MS/MSD and FD) were submitted for analysis; however, it was not listed on the Chain-of-Custody. HEN_21R (500-251407-1[MS]), HEN_21R (500-251407-1[MSD]), HEN_49 (500-251407-9[MS]), HEN_49 (500-251407-9[MSD]) and HEN_35_FD (500-251407-12)

RAD
Methods 903.0, 9315: Radium-226 prep batch 160-664619: The Ra-226 laboratory control sample (LCS) associated with the following samples recovered at 74%: (LCS 160-664619/2-A). The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (71-117%). The LCS is within criteria and no further action is required.

Method 904.0: Radium-228 prep batch 160-664622: The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: HEN_32 (500-251407-6) . Analytical results are reported with the detection limit achieved.

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

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R — Lab Sample ID: 500-251407-1

No Detections.

Client Sample ID: HEN_22 — Lab Sample ID: 500-251407-2

No Detections.

Client Sample ID: HEN_22&D — Lab Sample ID: 500-251407-3

No Detections.

Client Sample ID: HEN_23 — Lab Sample ID: 500-251407-4

No Detections.

Client Sample ID: HEN_27 — Lab Sample ID: 500-251407-5

No Detections.

Client Sample ID: HEN_32 — Lab Sample ID: 500-251407-6

No Detections.

Client Sample ID: HEN_34 — Lab Sample ID: 500-251407-7

No Detections.

Client Sample ID: HEN_35 — Lab Sample ID: 500-251407-8

No Detections.

Client Sample ID: HEN_49 — Lab Sample ID: 500-251407-9

No Detections.

Client Sample ID: HEN_50 — Lab Sample ID: 500-251407-10

No Detections.

Client Sample ID: HEN_51 — Lab Sample ID: 500-251407-11

No Detections.

Client Sample ID: HEN_35_FD — Lab Sample ID: 500-251407-12

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_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: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-251407-1	HEN_21R	Water	05/30/24 10:05	05/31/24 09:21
500-251407-2	HEN_22	Water	05/30/24 13:50	05/31/24 09:21
500-251407-3	HEN_22&D	Water	05/30/24 12:50	05/31/24 09:21
500-251407-4	HEN_23	Water	05/30/24 11:55	05/31/24 09:21
500-251407-5	HEN_27	Water	05/30/24 10:20	05/31/24 09:21
500-251407-6	HEN_32	Water	05/30/24 09:15	05/31/24 09:21
500-251407-7	HEN_34	Water	05/30/24 09:20	05/31/24 09:21
500-251407-8	HEN_35	Water	05/30/24 11:30	05/31/24 09:21
500-251407-9	HEN_49	Water	05/30/24 14:00	05/31/24 09:21
500-251407-10	HEN_50	Water	05/30/24 12:35	05/31/24 09:21
500-251407-11	HEN_51	Water	05/30/24 11:10	05/31/24 09:21
500-251407-12	HEN_35_FD	Water	05/30/24 11:30	05/31/24 09:21

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R

Date Collected: 05/30/24 10:05
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.683		0.262	0.269	1.00	0.254	pCi/L	06/04/24 08:17	06/27/24 23:49	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*06/04/24 08:17*	*06/27/24 23:49*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.887		0.501	0.508	1.00	0.707	pCi/L	06/04/24 08:23	06/26/24 11:33	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*06/04/24 08:23*	*06/26/24 11:33*	*1*
Y Carrier	*77.8*		*30 - 110*	*06/04/24 08:23*	*06/26/24 11:33*	*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	1.57		0.565	0.575	5.00	0.707	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22
Date Collected: 05/30/24 13:50
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-2
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0398	U	0.0721	0.0722	1.00	0.130	pCi/L	06/04/24 08:25	06/27/24 17:01	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*06/04/24 08:25*	*06/27/24 17:01*	*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	0.562	U	0.393	0.397	1.00	0.593	pCi/L	06/04/24 08:28	06/24/24 12:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.8*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:47*	*1*
Y Carrier	*84.9*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:47*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.602**		0.400	0.404	5.00	0.593	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22&D

Date Collected: 05/30/24 12:50
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-3

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.856		0.225	0.237	1.00	0.202	pCi/L	06/04/24 08:25	06/27/24 17:19	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.0*		*30 - 110*	*06/04/24 08:25*	*06/27/24 17:19*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.21		0.501	0.514	1.00	0.636	pCi/L	06/04/24 08:28	06/24/24 12:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.0*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:47*	*1*
Y Carrier	*67.7*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:47*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.07		0.549	0.566	5.00	0.636	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_23
Date Collected: 05/30/24 11:55
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00546	U	0.0825	0.0825	1.00	0.166	pCi/L	06/04/24 08:25	06/27/24 17:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*06/04/24 08:25*	*06/27/24 17:09*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.230	U	0.254	0.255	1.00	0.560	pCi/L	06/04/24 08:28	06/24/24 12:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:47*	*1*
Y Carrier	*83.4*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:47*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.00546	U	0.267	0.268	5.00	0.560	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_27
Date Collected: 05/30/24 10:20
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-5
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.104	U	0.114	0.114	1.00	0.183	pCi/L	06/04/24 08:25	06/27/24 17:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*30 - 110*	*06/04/24 08:25*	*06/27/24 17:09*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.301	U	0.340	0.341	1.00	0.555	pCi/L	06/04/24 08:28	06/24/24 12:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.5*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:47*	*1*
Y Carrier	*80.0*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:47*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.405	U	0.359	0.360	5.00	0.555	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_32
Date Collected: 05/30/24 09:15
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-6
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.117	U	0.155	0.156	1.00	0.260	pCi/L	06/04/24 08:25	06/27/24 22:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*70.3*		*30 - 110*	*06/04/24 08:25*	*06/27/24 22:25*	*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	0.141	U G	0.574	0.574	1.00	1.03	pCi/L	06/04/24 08:28	06/24/24 12:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*70.3*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:48*	*1*
Y Carrier	*81.5*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:48*	*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	0.258	U	0.595	0.595	5.00	1.03	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_34
Date Collected: 05/30/24 09:20
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-7
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.334		0.140	0.143	1.00	0.155	pCi/L	06/04/24 08:25	06/27/24 22:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.3*		*30 - 110*	*06/04/24 08:25*	*06/27/24 22:25*	*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	0.679		0.400	0.405	1.00	0.579	pCi/L	06/04/24 08:28	06/24/24 12:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.3*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:48*	*1*
Y Carrier	*80.7*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:48*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.01		0.424	0.430	5.00	0.579	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35

Date Collected: 05/30/24 11:30
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-8

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.112	U	0.0970	0.0975	1.00	0.145	pCi/L	06/04/24 08:25	06/27/24 22:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*30 - 110*	*06/04/24 08:25*	*06/27/24 22:38*	*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	0.179	U	0.322	0.322	1.00	0.555	pCi/L	06/04/24 08:28	06/24/24 12:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*96.0*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:48*	*1*
Y Carrier	*79.6*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:48*	*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	0.291	U	0.336	0.336	5.00	0.555	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_49
Date Collected: 05/30/24 14:00
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-9
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.184		0.126	0.127	1.00	0.177	pCi/L	06/04/24 08:25	06/27/24 22:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*06/04/24 08:25*	*06/27/24 22:38*	*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	0.603		0.400	0.404	1.00	0.593	pCi/L	06/04/24 08:28	06/24/24 12:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.0*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:48*	*1*
Y Carrier	*83.4*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:48*	*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	0.787		0.419	0.423	5.00	0.593	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_50
Date Collected: 05/30/24 12:35
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-10
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.319		0.148	0.150	1.00	0.175	pCi/L	06/04/24 08:25	06/27/24 22:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.0*		*30 - 110*	*06/04/24 08:25*	*06/27/24 22:38*	*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	0.902		0.394	0.403	1.00	0.513	pCi/L	06/04/24 08:28	06/24/24 12:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.0*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:48*	*1*
Y Carrier	*84.1*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:48*	*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	1.22		0.421	0.430	5.00	0.513	pCi/L		07/01/24 14:38	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_51
Date Collected: 05/30/24 11:10
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-11
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.652**		0.180	0.189	1.00	0.145	pCi/L	06/04/24 08:25	06/27/24 22:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*06/04/24 08:25*	*06/27/24 22:38*	*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	0.255	U	0.380	0.381	1.00	0.642	pCi/L	06/04/24 08:28	06/24/24 12:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.0*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:39*	*1*
Y Carrier	*82.2*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:39*	*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	**0.906**		0.420	0.425	5.00	0.642	pCi/L		07/01/24 14:38	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35_FD

Date Collected: 05/30/24 11:30
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-12

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0665	U	0.100	0.101	1.00	0.172	pCi/L	06/04/24 08:25	06/27/24 22:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*30 - 110*	*06/04/24 08:25*	*06/27/24 22:38*	*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	**0.808**		0.392	0.399	1.00	0.532	pCi/L	06/04/24 08:28	06/24/24 12:39	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.0*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:39*	*1*
Y Carrier	*81.5*		*30 - 110*	*06/04/24 08:28*	*06/24/24 12:39*	*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	**0.875**		0.405	0.412	5.00	0.532	pCi/L		07/01/24 14:38	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
HEN-257803
SDG: HEN_000_RAD

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

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

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Rad

Prep Batch: 664619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	PrecSep-21	
MB 160-664619/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-664619/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-251407-1 MS	HEN_21R	Total/NA	Water	PrecSep-21	
500-251407-1 MSD	HEN_21R	Total/NA	Water	PrecSep-21	

Prep Batch: 664620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	PrecSep_0	
MB 160-664620/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-664620/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-251407-1 MS	HEN_21R	Total/NA	Water	PrecSep_0	
500-251407-1 MSD	HEN_21R	Total/NA	Water	PrecSep_0	

Prep Batch: 664621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-2	HEN_22	Total/NA	Water	PrecSep-21	
500-251407-3	HEN_22&D	Total/NA	Water	PrecSep-21	
500-251407-4	HEN_23	Total/NA	Water	PrecSep-21	
500-251407-5	HEN_27	Total/NA	Water	PrecSep-21	
500-251407-6	HEN_32	Total/NA	Water	PrecSep-21	
500-251407-7	HEN_34	Total/NA	Water	PrecSep-21	
500-251407-8	HEN_35	Total/NA	Water	PrecSep-21	
500-251407-9	HEN_49	Total/NA	Water	PrecSep-21	
500-251407-10	HEN_50	Total/NA	Water	PrecSep-21	
500-251407-11	HEN_51	Total/NA	Water	PrecSep-21	
500-251407-12	HEN_35_FD	Total/NA	Water	PrecSep-21	
MB 160-664621/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-664621/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-251407-9 MS	HEN_49	Total/NA	Water	PrecSep-21	
500-251407-9 MSD	HEN_49	Total/NA	Water	PrecSep-21	

Prep Batch: 664622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-2	HEN_22	Total/NA	Water	PrecSep_0	
500-251407-3	HEN_22&D	Total/NA	Water	PrecSep_0	
500-251407-4	HEN_23	Total/NA	Water	PrecSep_0	
500-251407-5	HEN_27	Total/NA	Water	PrecSep_0	
500-251407-6	HEN_32	Total/NA	Water	PrecSep_0	
500-251407-7	HEN_34	Total/NA	Water	PrecSep_0	
500-251407-8	HEN_35	Total/NA	Water	PrecSep_0	
500-251407-9	HEN_49	Total/NA	Water	PrecSep_0	
500-251407-10	HEN_50	Total/NA	Water	PrecSep_0	
500-251407-11	HEN_51	Total/NA	Water	PrecSep_0	
500-251407-12	HEN_35_FD	Total/NA	Water	PrecSep_0	
MB 160-664622/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-664622/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-251407-9 MS	HEN_49	Total/NA	Water	PrecSep_0	
500-251407-9 MSD	HEN_49	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-664619/1-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664619

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01055	U	0.0779	0.0779	1.00	0.162	pCi/L	06/04/24 08:17	06/27/24 23:30	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*100*		*30 - 110*	*06/04/24 08:17*	*06/27/24 23:30*	*1*

Lab Sample ID: LCS 160-664619/2-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664619

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	8.427		1.03	1.00	0.173	pCi/L	74	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*95.5*		*30 - 110*

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 668351

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 664619

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.683		15.1	12.43		1.48	1.00	0.228	pCi/L	78	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*94.8*		*30 - 110*

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 668351

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 664619

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.683		15.1	12.98		1.56	1.00	0.321	pCi/L	81	60 - 140	0.18	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*86.3*		*30 - 110*

Lab Sample ID: MB 160-664621/1-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664621

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03495	U	0.0598	0.0599	1.00	0.107	pCi/L	06/04/24 08:25	06/27/24 17:00	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

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

Lab Sample ID: MB 160-664621/1-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664621

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110	06/04/24 08:25	06/27/24 17:00	1

Lab Sample ID: LCS 160-664621/2-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664621

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			11.3	10.07		1.12	1.00	0.136	pCi/L	89	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.5		30 - 110

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 668351

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 664621

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.184		11.4	9.475		1.06	1.00	0.149	pCi/L	82	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	97.3		30 - 110

Lab Sample ID: 500-251407-9 MSD
Matrix: Water
Analysis Batch: 668351

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 664621

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.184		11.3	10.29		1.14	1.00	0.129	pCi/L	89	60 - 140	0.37	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	96.8		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-664620/1-A
Matrix: Water
Analysis Batch: 668086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664620

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4604	U	0.353	0.356	1.00	0.547	pCi/L	06/04/24 08:23	06/26/24 12:17	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110	06/04/24 08:23	06/26/24 12:17	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

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

Lab Sample ID: MB 160-664620/1-A
Matrix: Water
Analysis Batch: 668086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664620

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	84.5		30 - 110	06/04/24 08:23	06/26/24 12:17	1

Lab Sample ID: LCS 160-664620/2-A
Matrix: Water
Analysis Batch: 668086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664620

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.82	9.518		1.63	1.00	1.04	pCi/L	108	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	95.5		30 - 110
Y Carrier	83.7		30 - 110

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 668085

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 664620

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.887		11.8	13.62		1.78	1.00	0.620	pCi/L	108	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	94.8		30 - 110
Y Carrier	83.0		30 - 110

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 668085

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 664620

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.887		11.8	14.48		1.91	1.00	0.726	pCi/L	116	60 - 140	0.23	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	86.3		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: MB 160-664622/1-A
Matrix: Water
Analysis Batch: 667706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664622

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.7624		0.412	0.417	1.00	0.587	pCi/L	06/04/24 08:28	06/24/24 12:46	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

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

Lab Sample ID: MB 160-664622/1-A
Matrix: Water
Analysis Batch: 667706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664622

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110	06/04/24 08:28	06/24/24 12:46	1
Y Carrier	81.9		30 - 110	06/04/24 08:28	06/24/24 12:46	1

Lab Sample ID: LCS 160-664622/2-A
Matrix: Water
Analysis Batch: 667706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664622

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.82	10.41		1.41	1.00	0.580	pCi/L	118	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.5		30 - 110
Y Carrier	81.5		30 - 110

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 667706

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 664622

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.603		8.85	9.568		1.32	1.00	0.531	pCi/L	101	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	97.3		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: 500-251407-9 MSD
Matrix: Water
Analysis Batch: 667706

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 664622

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.603		8.83	10.48		1.41	1.00	0.618	pCi/L	112	60 - 140	0.33	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	96.8		30 - 110
Y Carrier	84.1		30 - 110

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_21R
Date Collected: 05/30/24 10:05
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664619	MLT	EET SL	06/04/24 08:17
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 23:49
Total/NA	Prep	PrecSep_0			664620	MLT	EET SL	06/04/24 08:23
Total/NA	Analysis	904.0		1	668085	FLC	EET SL	06/26/24 11:33
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_22
Date Collected: 05/30/24 13:50
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668232	SWS	EET SL	06/27/24 17:01
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_22&D
Date Collected: 05/30/24 12:50
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 17:19
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_23
Date Collected: 05/30/24 11:55
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668353	SCB	EET SL	06/27/24 17:09
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_27
Date Collected: 05/30/24 10:20
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668353	SCB	EET SL	06/27/24 17:09
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_32
Date Collected: 05/30/24 09:15
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668353	SCB	EET SL	06/27/24 22:25
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_34
Date Collected: 05/30/24 09:20
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668353	SCB	EET SL	06/27/24 22:25
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_35
Date Collected: 05/30/24 11:30
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 22:38
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_49
Date Collected: 05/30/24 14:00
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 22:38
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_50
Date Collected: 05/30/24 12:35
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 22:38
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:38

Client Sample ID: HEN_51
Date Collected: 05/30/24 11:10
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 22:38
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667708	SCB	EET SL	06/24/24 12:39
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:38

Client Sample ID: HEN_35_FD
Date Collected: 05/30/24 11:30
Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 22:38
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667708	SCB	EET SL	06/24/24 12:39
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:38

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: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_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

500-251407 COC

500-251407

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

Section A Required Client Information:
Company: Vistra Corp-Hennepin
Address: 13498 E 800th St, Hennepin, IL 61327
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:
Report To: Brian Voelker
Copy To: Jason Stuckey J on St key@vistr .orp c m; Sam Davies m il a day @vist a rp m
Purchase Order No.:
Project Name:
Project Number: 50023030

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

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

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000		Residual Chlorine (Y/N)	Project No./ Lab I D.
1	HEN_21R	W	G	5/30/24	1005														X				X		X	X	H			
2	HEN_22	W	G	5/30/24	1350														X				X		X	X	H			
3	HEN_22&D	W	G	5/30/24	1250														X				X		X	X	H			
4	HEN_23	W	G	5/30/24	1155														X				X		X	X	H			
	HEN_25																		X								J			DTW ONLY
	HEN_26																		X								J			DTW ONLY
5	HEN_27	W	G	5/30/24	1020														X				X		X	X	H			
	HEN_30																		X								J			DTW ONLY
	HEN_31																		X								J			DTW ONLY
6	HEN_32	W	G	5/30/24	0915														X				X		X	X	H			
	HEN_33																		X								J			DTW ONLY
7	HEN_34	W	G	5/3024	0920														X				X		X	X	H			
8	HEN_35	W	G	5/30/24	1130														X				X		X	X	H			
12	~~HEN_35_FD~~																		~~X~~				~~X~~		~~X~~	~~X~~	~~H~~			
	HEN_36																		X								J			DTW ONLY
	~~HEN_40WS~~																				X						~~E~~			~~SHORT HOLD NO2~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0		5/31/24	921		5/31/24	0921	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER.
SIGNATURE of SAMPLER. DATE Signed (MM/DD/YY).

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

4.2 → 3.8, 4.6 → 4.2, 3.3 → 2.8
5.8 → 5.4

500-25740

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address:	13498 E 800th St
	Hennepin, IL 61327
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Jason Stuckey Ja n l k-y@v tra orp c n Sam Davies amantha davi @v tra p n
Purchase Order No.	
Project Name	
Project Number	50023030

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y / N	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-EAST	HEN-WPCP-WEST	HEN_000_RAD	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	~~HEN_45#3~~																X				X		X		X	B		~~SHORT HOLD-NO2~~
	~~HEN_46~~																	X				X				X	G		
	~~HEN_47~~																	X				X				X	G		
9	HEN_49	W	G	5/30/24	1400														X				X		X	X	H		
10	HEN_50	W	G	5/30/24	1235														X				X		X	X	H		
11	HEN_51	W	G	5/30/24	1110														X				X		X	X	H		
	~~HEN_52~~																	X				X				X	G		
	~~HEN_54~~																	X				X				X	G		
	~~HEN_54_FD~~																	X				X				X	G		
	HEN_55																	X				X					J		DTW ONLY
	HEN_XSG01																	X				X					J		DTW ONLY
	HEN_YSG_ILRIVER																X	X	X		X	X	X	X	X		J		DTW ONLY
	~~HEN_FB~~																			X	X			X		X	G		~~SHORT HOLD-NO2~~
	~~HEN_TB~~																							X			A		~~BTEX ONLY~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q2 Rev 0	Some Filer	5/31/24	92	Pace	05/31/24	0921	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER | DATE Signed (MM/DD/YY):

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

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-188896.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-251407-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 7/1/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
-

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_21R (500-251407-1)	5/30/24	10:05 Central		Water			X	X	X	2	
HEN_21R (500-251407-1MS)	5/30/24	10:05 Central	MS	Water			X	X	X	2	
HEN_21R (500-251407-1MSD)	5/30/24	10:05 Central	MSD	Water			X	X	X	2	
HEN_22 (500-251407-2)	5/30/24	13:50 Central		Water			X	X	X	2	
HEN_22&D (500-251407-3)	5/30/24	12:50 Central		Water			X	X	X	2	
HEN_23 (500-251407-4)	5/30/24	11:55 Central		Water			X	X	X	2	
HEN_27 (500-251407-5)	5/30/24	10:20 Central		Water			X	X	X	2	
HEN_32 (500-251407-6)	5/30/24	09:15 Central		Water			X	X	X	2	
HEN_34 (500-251407-7)	5/30/24	09:20 Central		Water			X	X	X	2	

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by: [signature]	Date/Time: 5/31/24 1500	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by: M Pinette	Date/Time: JUN 03 2024 0855	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-188896.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-251407-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 7/1/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q2	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_35 (500-251407-8)	5/30/24	11:30 Central		Water			X	X	X	2	
HEN_49 (500-251407-9)	5/30/24	14:00 Central		Water			X	X	X	2	
HEN_49 (500-251407-9MS)	5/30/24	14:00 Central	MS	Water			X	X	X	2	
HEN_49 (500-251407-9MSD)	5/30/24	14:00 Central	MSD	Water			X	X	X	2	
HEN_50 (500-251407-10)	5/30/24	12:35 Central		Water			X	X	X	2	
HEN_51 (500-251407-11)	5/30/24	11:10 Central		Water			X	X	X	2	
HEN_35_FD (500-251407-12)	5/30/24	11:30 Central		Water			X	X	X	2	

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

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by: [signature]	Date/Time: 5/31/24 1500	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: JUN 03 2024 0855	Company
				Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-251407-2
SDG Number: HEN_000_RAD

Login Number: 251407
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	3.8,4.2,2.8,5.4
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-251407-2
SDG Number: HEN_000_RAD

Login Number: 251407
List Number: 2
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 06/03/24 12:57 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	

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)
Lab Sample ID	Client Sample ID	Ba (30-110)
500-251407-1	HEN_21R	87.0
500-251407-1 MS	HEN_21R	94.8
500-251407-1 MSD	HEN_21R	86.3
500-251407-2	HEN_22	88.8
500-251407-3	HEN_22&D	92.0
500-251407-4	HEN_23	87.8
500-251407-5	HEN_27	88.5
500-251407-6	HEN_32	70.3
500-251407-7	HEN_34	94.3
500-251407-8	HEN_35	96.0
500-251407-9	HEN_49	87.0
500-251407-9 MS	HEN_49	97.3
500-251407-9 MSD	HEN_49	96.8
500-251407-10	HEN_50	94.0
500-251407-11	HEN_51	89.0
500-251407-12	HEN_35_FD	93.0
LCS 160-664619/2-A	Lab Control Sample	95.5
LCS 160-664621/2-A	Lab Control Sample	93.5
MB 160-664619/1-A	Method Blank	100
MB 160-664621/1-A	Method Blank	95.5

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-251407-1	HEN_21R	87.0	77.8
500-251407-1 MS	HEN_21R	94.8	83.0
500-251407-1 MSD	HEN_21R	86.3	82.2
500-251407-2	HEN_22	88.8	84.9
500-251407-3	HEN_22&D	92.0	67.7
500-251407-4	HEN_23	87.8	83.4
500-251407-5	HEN_27	88.5	80.0
500-251407-6	HEN_32	70.3	81.5
500-251407-7	HEN_34	94.3	80.7
500-251407-8	HEN_35	96.0	79.6
500-251407-9	HEN_49	87.0	83.4
500-251407-9 MS	HEN_49	97.3	82.2
500-251407-9 MSD	HEN_49	96.8	84.1
500-251407-10	HEN_50	94.0	84.1
500-251407-11	HEN_51	89.0	82.2
500-251407-12	HEN_35_FD	93.0	81.5
LCS 160-664620/2-A	Lab Control Sample	95.5	83.7
LCS 160-664622/2-A	Lab Control Sample	93.5	81.5
MB 160-664620/1-A	Method Blank	100	84.5
MB 160-664622/1-A	Method Blank	95.5	81.9

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 08/27/24 12:06:50

JOB DESCRIPTION

HEN-24Q3
HEN_257_803

JOB NUMBER

500-253560-5

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

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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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08/27/24 12:06:50

Authorized for release by
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Job ID: 500-253560-5 — Eurofins Chicago

Job Narrative
500-253560-5

Receipt
The samples were received on 07/16/24 13:05. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 18 coolers at receipt time were -0.2º C, 0.8º C, 0.9º C, 0.9º C, 1.6º C, 1.7º C, 3.1º C, 4.0º C, 4.2º C, 5.7º C, 5.7º C, 5.7º C, 5.9º C, 9.1º C, 11.3º C, 11.8º C, 11.8º C and 12.7º C.

Receipt Exceptions
The following samples from the July sampling event were received at the laboratory outside the required temperature criteria: HEN_17 (500-253560-24), HEN_21R (500-253560-25), HEN_21R_MS (500-253560-25[MS]), HEN_21R_MSD (500-253560-25[MSD]), HEN_22 (500-253560-26), HEN_22&D (500-253560-27), HEN_27 (500-253560-28), HEN_32 (500-253560-29), HEN_34 (500-253560-30), HEN_35 (500-253560-31), HEN_35_FD (500-253560-32), HEN_46 (500-253560-33), HEN_47 (500-253560-34), HEN_49 (500-253560-35), HEN_49_MS (500-253560-35[MS]), HEN_49_MSD (500-253560-35[MSD]), HEN_50 (500-253560-36), HEN_52 (500-253560-37), HEN_54 (500-253560-38) and HEN_54_FD (500-253560-39). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to cancel analysis, pending resamping.

Affected samples were recollected on 08/06/24 and added to the existing login to report together.

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. HEN_07 (500-253560-1), HEN_08&D (500-253560-10), HEN_17 (500-253560-24), HEN_46 (500-253560-33), HEN_47 (500-253560-34), HEN_52 (500-253560-37), HEN_54 (500-253560-38) and HEN_54_FD (500-253560-39)

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

General Chemistry
Method SM 2320B: The method blank for analytical batch 500-779286 contained Alkalinity above the reporting limit (RL). Associated sample(s) were not re-analyzed because results were greater than 10X the value found in the method blank.

Method SM 2320B: The method blank for analytical batch 500-781414 contained Alkalinity and Bicarbonate Alkalinity as CaCO3 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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.

Method SM 2320B: The method blank for analytical batch 500-782341 contained Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The method blank for analytical batch 500-779304 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The method blank for analytical batch 500-780474 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

Detection Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_07 — Lab Sample ID: 500-253560-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.013	B	0.010	0.0040	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.17		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.093	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	170		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0023		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	63		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	3.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	77		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	170	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	63		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	400		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.12		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	67.77				ft	1		Field Sampling	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA
Field Temperature	16.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	192.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.82				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1662				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.66				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_12 — Lab Sample ID: 500-253560-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0083		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.056		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.17	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	77		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	32		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.015		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	3.8		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	38		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	69	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	60		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	570		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.22		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.4				ft	1		Field Sampling	Total/NA
Field pH	7.32				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_12 (Continued) — Lab Sample ID: 500-253560-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	18.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	108.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.79				mg/L	1		Field Sampling	Total/NA
Specific Conductance	678				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.08				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_13 — Lab Sample ID: 500-253560-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.011		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00030	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.044		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.17	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	80		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	33		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0099		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.0		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	38		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	69	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	61		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240		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	0.20		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.36				ft	1		Field Sampling	Total/NA
Field pH	7.35				SU	1		Field Sampling	Total/NA
Field Temperature	17.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	139.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.37				mg/L	1		Field Sampling	Total/NA
Specific Conductance	684				umhos/cm	1		Field Sampling	Total/NA
Turbidity	4.00				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08 — Lab Sample ID: 500-253560-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.011	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.10		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.099	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00030	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	180		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0012		0.0010	0.00040	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_08 (Continued) — Lab Sample ID: 500-253560-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.00023	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	50		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	7.7		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	58		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	150	B	10	1.2	mg/L	10		300.0	Total/NA
Sulfate	110		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	480	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	870		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.11		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.62				ft	1		Field Sampling	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA
Field Temperature	18.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	189.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.21				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1597				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.78				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08&D — Lab Sample ID: 500-253560-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.016	B	0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.10		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.10	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00050		0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	190		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0031		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00036	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	57		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	4.0		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	160		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	300	B	10	1.2	mg/L	10		300.0	Total/NA
Sulfate	170		10	2.1	mg/L	10		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	490	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1300		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.11		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.09				ft	1		Field Sampling	Total/NA
Field pH	6.69				SU	1		Field Sampling	Total/NA
Field Temperature	15.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	195.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.28				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1824				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_08&D (Continued) — Lab Sample ID: 500-253560-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Turbidity	4.41				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16 — Lab Sample ID: 500-253560-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0076		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.063		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.18	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	73		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	27		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0098		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.5		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	43		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	70	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	59		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	220	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	450		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.27		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.22				ft	1		Field Sampling	Total/NA
Field pH	7.27				SU	1		Field Sampling	Total/NA
Field Temperature	22.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	192.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.48				mg/L	1		Field Sampling	Total/NA
Specific Conductance	823				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16_FD — Lab Sample ID: 500-253560-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0075		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.065		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.18	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	74		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	27		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0099		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.6		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	40		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	70	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	58		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	220	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_16_FD (Continued) — Lab Sample ID: 500-253560-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	430		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.27		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.22				ft	1		Field Sampling	Total/NA
Field pH	7.27				SU	1		Field Sampling	Total/NA
Field Temperature	22.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	192.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.48				mg/L	1		Field Sampling	Total/NA
Specific Conductance	823				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_17 — Lab Sample ID: 500-253560-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0062		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.068		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.11	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	65		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	26		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0062		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	47		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	68	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	55		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	200	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	400		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.27		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	56.12				ft	1		Field Sampling	Total/NA
Field pH	7.24				SU	1		Field Sampling	Total/NA
Field Temperature	23.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	88.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	6.79				mg/L	1		Field Sampling	Total/NA
Specific Conductance	789				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.43				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_46 — Lab Sample ID: 500-253560-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0080		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.063		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.19	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	77		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	30		0.20	0.049	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_46 (Continued) — Lab Sample ID: 500-253560-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.017		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.1		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	46		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	67	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	58		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	410		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.24		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	51.61				ft	1		Field Sampling	Total/NA
Field pH	7.24				SU	1		Field Sampling	Total/NA
Field Temperature	19.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	116.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.94				mg/L	1		Field Sampling	Total/NA
Specific Conductance	857				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.51				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_47 — Lab Sample ID: 500-253560-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.010		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.072		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.36	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	85		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	30		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.031		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.7		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0012	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	51		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	65	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	73		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	250	B	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	0.31		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	55.90				ft	1		Field Sampling	Total/NA
Field pH	7.17				SU	1		Field Sampling	Total/NA
Field Temperature	18.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	143.5				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.77				mg/L	1		Field Sampling	Total/NA
Specific Conductance	907				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.44				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_52 — Lab Sample ID: 500-253560-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.010		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.081		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.28	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	89		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	30		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.014		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	5.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	52		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	70	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	60		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	290	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	450		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.27		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.01				ft	1		Field Sampling	Total/NA
Field pH	7.04				SU	1		Field Sampling	Total/NA
Field Temperature	20.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	126.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.98				mg/L	1		Field Sampling	Total/NA
Specific Conductance	932				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.20				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_54 — Lab Sample ID: 500-253560-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.011		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00023	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.046		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.29	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	78		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	31		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.025		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0011	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	48		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	69	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	64		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	480		10	4.3	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_54 (Continued) — Lab Sample ID: 500-253560-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.25		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.59				ft	1		Field Sampling	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Temperature	19.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	124.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	874				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.81				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_54_FD — Lab Sample ID: 500-253560-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.011		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00023	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.047		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.30	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	78		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	32		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.026		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	48		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	69	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	65		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	430		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.25		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	53.59				ft	1		Field Sampling	Total/NA
Field pH	7.29				SU	1		Field Sampling	Total/NA
Field Temperature	19.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	124.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	3.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	874				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.81				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_55 — Lab Sample ID: 500-253560-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	50.91				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_XSG01 — Lab Sample ID: 500-253560-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	10.14				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_YSG_ILRIVER — Lab Sample ID: 500-253560-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	5.25				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

HEN-257803

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: HEN-24Q3

Job ID: 500-253560-5
SDG: HEN_257_803

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-253560-1	HEN_07	Water	07/15/24 15:20	07/16/24 13:05
500-253560-2	HEN_12	Water	07/15/24 15:45	07/16/24 13:05
500-253560-3	HEN_13	Water	07/15/24 16:35	07/16/24 13:05
500-253560-9	HEN_08	Water	07/16/24 14:00	07/17/24 09:40
500-253560-10	HEN_08&D	Water	07/16/24 15:46	07/17/24 09:40
500-253560-12	HEN_16	Water	07/16/24 15:30	07/17/24 09:40
500-253560-13	HEN_16_FD	Water	07/16/24 15:40	07/17/24 09:40
500-253560-24	HEN_17	Water	08/06/24 09:10	08/07/24 09:05
500-253560-33	HEN_46	Water	08/06/24 09:55	08/07/24 09:05
500-253560-34	HEN_47	Water	08/06/24 11:20	08/07/24 09:05
500-253560-37	HEN_52	Water	08/06/24 12:05	08/07/24 09:05
500-253560-38	HEN_54	Water	08/06/24 10:40	08/07/24 09:05
500-253560-39	HEN_54_FD	Water	08/06/24 10:45	08/07/24 09:05
500-253560-47	HEN_55	Water	07/15/24 11:45	07/16/24 13:05
500-253560-48	HEN_XSG01	Water	07/15/24 11:20	07/16/24 13:05
500-253560-49	HEN_YSG_ILRIVER	Water	07/15/24 12:30	07/16/24 13:05

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_07
Date Collected: 07/15/24 15:20
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.013**	**B**	0.010	0.0040	mg/L		07/30/24 08:33	07/31/24 13:26	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		07/22/24 15:20	07/24/24 14:33	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 14:33	1
Barium	**0.17**		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 14:33	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 13:32	1
Boron	**0.093**	**B**	0.050	0.013	mg/L		07/22/24 15:20	07/23/24 13:32	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 14:33	1
Calcium	**170**		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 14:33	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 14:33	1
Cobalt	**0.0023**		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 13:32	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 14:33	1
Magnesium	**63**		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 14:33	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 14:33	1
Potassium	**3.8**		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 14:33	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 14:33	1
Sodium	**77**		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 13:32	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 14:33	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		07/29/24 11:55	07/30/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**170**	**B**	5.0	0.58	mg/L			07/31/24 21:24	5
Sulfate (EPA 300.0)	**63**		5.0	1.0	mg/L			07/31/24 21:24	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**400**		5.0	3.7	mg/L			07/19/24 19:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/19/24 19:51	1
Total Dissolved Solids (SM 2540C)	**1100**		10	4.3	mg/L			07/18/24 00:54	1
Fluoride (SM 4500 F C)	**0.12**		0.10	0.056	mg/L			08/08/24 14:33	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**67.77**				ft			07/15/24 15:20	1
Field pH	**6.65**				SU			07/15/24 15:20	1
Field Temperature	**16.4**				Degrees C			07/15/24 15:20	1
Oxidation Reduction Potential	**192.1**				millivolts			07/15/24 15:20	1
Oxygen, Dissolved	**6.82**				mg/L			07/15/24 15:20	1
Specific Conductance	**1662**				umhos/cm			07/15/24 15:20	1
Turbidity	**2.66**				NTU			07/15/24 15:20	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_12

Date Collected: 07/15/24 15:45
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0083**		0.0050	0.0020	mg/L		07/26/24 15:25	07/31/24 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 14:49	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 14:49	1
Barium	**0.056**		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 14:49	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 13:47	1
Boron	**0.17**	**B**	0.050	0.013	mg/L		07/22/24 15:20	07/23/24 13:47	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 14:49	1
Calcium	**77**		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 14:49	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 14:49	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 13:47	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 14:49	1
Magnesium	**32**		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 14:49	1
Molybdenum	**0.015**		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 14:49	1
Potassium	**3.8**		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 14:49	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 14:49	1
Sodium	**38**		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 13:47	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 14:49	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		07/29/24 11:55	07/30/24 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**69**	**B**	5.0	0.58	mg/L			07/31/24 21:55	5
Sulfate (EPA 300.0)	**60**		5.0	1.0	mg/L			07/31/24 21:55	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			07/19/24 20:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/19/24 20:01	1
Total Dissolved Solids (SM 2540C)	**570**		10	4.3	mg/L			07/18/24 00:57	1
Fluoride (SM 4500 F C)	**0.22**		0.10	0.056	mg/L			07/23/24 13:39	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.4**				ft			07/15/24 15:45	1
Field pH	**7.32**				SU			07/15/24 15:45	1
Field Temperature	**18.0**				Degrees C			07/15/24 15:45	1
Oxidation Reduction Potential	**108.5**				millivolts			07/15/24 15:45	1
Oxygen, Dissolved	**2.79**				mg/L			07/15/24 15:45	1
Specific Conductance	**678**				umhos/cm			07/15/24 15:45	1
Turbidity	**4.08**				NTU			07/15/24 15:45	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_13
Date Collected: 07/15/24 16:35
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.011**		0.0050	0.0020	mg/L		07/26/24 15:25	07/31/24 13:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 14:51	1
Arsenic	**0.00030**	**J**	0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 14:51	1
Barium	**0.044**		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 14:51	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 13:50	1
Boron	**0.17**	**B**	0.050	0.013	mg/L		07/22/24 15:20	07/23/24 13:50	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 14:51	1
Calcium	**80**		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 14:51	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 14:51	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 13:50	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 14:51	1
Magnesium	**33**		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 14:51	1
Molybdenum	**0.0099**		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 14:51	1
Potassium	**4.0**		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 14:51	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 14:51	1
Sodium	**38**		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 13:50	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 14:51	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		07/29/24 11:55	07/30/24 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**69**	**B**	5.0	0.58	mg/L			07/31/24 22:58	5
Sulfate (EPA 300.0)	**61**		5.0	1.0	mg/L			07/31/24 22:58	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			07/19/24 20:14	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/19/24 20:14	1
Total Dissolved Solids (SM 2540C)	**560**		10	4.3	mg/L			07/18/24 00:59	1
Fluoride (SM 4500 F C)	**0.20**		0.10	0.056	mg/L			07/23/24 13:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.36**				ft			07/15/24 16:35	1
Field pH	**7.35**				SU			07/15/24 16:35	1
Field Temperature	**17.6**				Degrees C			07/15/24 16:35	1
Oxidation Reduction Potential	**139.1**				millivolts			07/15/24 16:35	1
Oxygen, Dissolved	**2.37**				mg/L			07/15/24 16:35	1
Specific Conductance	**684**				umhos/cm			07/15/24 16:35	1
Turbidity	**4.00**				NTU			07/15/24 16:35	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_08
Date Collected: 07/16/24 14:00
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.011**	**B**	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 13:39	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		07/22/24 15:20	07/24/24 15:02	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 15:02	1
Barium	**0.10**		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 15:02	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 14:06	1
Boron	**0.099**	**B**	0.050	0.013	mg/L		07/22/24 15:20	07/25/24 11:01	1
Cadmium	**0.00030**	**J**	0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 15:02	1
Calcium	**180**		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 15:02	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 15:02	1
Cobalt	**0.0012**		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 14:06	1
Lead	**0.00023**	**J**	0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 15:02	1
Magnesium	**50**		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 15:02	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 15:02	1
Potassium	**7.7**		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 15:02	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 15:02	1
Sodium	**58**		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 14:06	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 15:02	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		07/30/24 11:35	07/31/24 08:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**150**	**B**	10	1.2	mg/L			08/01/24 03:55	10
Sulfate (EPA 300.0)	**110**		10	2.1	mg/L			08/01/24 03:55	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**480**	**B**	5.0	3.7	mg/L			07/30/24 18:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 18:16	1
Total Dissolved Solids (SM 2540C)	**870**		10	4.3	mg/L			07/22/24 21:06	1
Fluoride (SM 4500 F C)	**0.11**		0.10	0.056	mg/L			07/23/24 14:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.62**				ft			07/16/24 14:00	1
Field pH	**6.65**				SU			07/16/24 14:00	1
Field Temperature	**18.1**				Degrees C			07/16/24 14:00	1
Oxidation Reduction Potential	**189.4**				millivolts			07/16/24 14:00	1
Oxygen, Dissolved	**2.21**				mg/L			07/16/24 14:00	1
Specific Conductance	**1597**				umhos/cm			07/16/24 14:00	1
Turbidity	**1.78**				NTU			07/16/24 14:00	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_08&D

Date Collected: 07/16/24 15:46
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.016**	**B**	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 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		07/22/24 15:20	07/24/24 15:05	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 15:05	1
Barium	**0.10**		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 15:05	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 14:08	1
Boron	**0.10**	**B**	0.050	0.013	mg/L		07/22/24 15:20	07/25/24 11:03	1
Cadmium	**0.00050**		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 15:05	1
Calcium	**190**		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 15:05	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 15:05	1
Cobalt	**0.0031**		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 14:08	1
Lead	**0.00036**	**J**	0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 15:05	1
Magnesium	**57**		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 15:05	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 15:05	1
Potassium	**4.0**		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 15:05	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 15:05	1
Sodium	**160**		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 14:08	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 15:05	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		07/30/24 11:35	07/31/24 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**300**	**B**	10	1.2	mg/L			08/01/24 04:26	10
Sulfate (EPA 300.0)	**170**		10	2.1	mg/L			08/01/24 04:26	10
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**490**	**B**	5.0	3.7	mg/L			07/30/24 18:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 18:26	1
Total Dissolved Solids (SM 2540C)	**1300**		10	4.3	mg/L			07/22/24 21:08	1
Fluoride (SM 4500 F C)	**0.11**		0.10	0.056	mg/L			07/23/24 14:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.09**				ft			07/16/24 15:46	1
Field pH	**6.69**				SU			07/16/24 15:46	1
Field Temperature	**15.4**				Degrees C			07/16/24 15:46	1
Oxidation Reduction Potential	**195.6**				millivolts			07/16/24 15:46	1
Oxygen, Dissolved	**0.28**				mg/L			07/16/24 15:46	1
Specific Conductance	**1824**				umhos/cm			07/16/24 15:46	1
Turbidity	**4.41**				NTU			07/16/24 15:46	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_16

Date Collected: 07/16/24 15:30
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0076**		0.0050	0.0020	mg/L		07/26/24 15:25	07/31/24 14:26	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		07/22/24 15:20	07/24/24 15:11	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 15:11	1
Barium	**0.063**		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 15:11	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 14:10	1
Boron	**0.18**	**B**	0.050	0.013	mg/L		07/22/24 15:20	07/25/24 11:05	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 15:11	1
Calcium	**73**		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 15:11	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 15:11	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 14:10	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 15:11	1
Magnesium	**27**		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 15:11	1
Molybdenum	**0.0098**		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 15:11	1
Potassium	**4.5**		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 15:11	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 15:11	1
Sodium	**43**		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 14:10	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 15:11	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		07/30/24 11:35	07/31/24 08:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**70**	**B**	5.0	0.58	mg/L			08/01/24 05:44	5
Sulfate (EPA 300.0)	**59**		5.0	1.0	mg/L			08/01/24 05:44	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**	**B**	5.0	3.7	mg/L			07/30/24 18:46	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 18:46	1
Total Dissolved Solids (SM 2540C)	**450**		10	4.3	mg/L			07/22/24 21:14	1
Fluoride (SM 4500 F C)	**0.27**		0.10	0.056	mg/L			07/23/24 14:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.22**				ft			07/16/24 15:30	1
Field pH	**7.27**				SU			07/16/24 15:30	1
Field Temperature	**22.1**				Degrees C			07/16/24 15:30	1
Oxidation Reduction Potential	**192.9**				millivolts			07/16/24 15:30	1
Oxygen, Dissolved	**0.48**				mg/L			07/16/24 15:30	1
Specific Conductance	**823**				umhos/cm			07/16/24 15:30	1
Turbidity	**1.12**				NTU			07/16/24 15:30	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_16_FD
Date Collected: 07/16/24 15:40
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0075**		0.0050	0.0020	mg/L		07/26/24 15:25	07/31/24 14:30	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		07/22/24 15:20	07/24/24 15:14	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/24/24 15:14	1
Barium	**0.065**		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 15:14	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 14:12	1
Boron	**0.18**	**B**	0.050	0.013	mg/L		07/22/24 15:20	07/25/24 11:07	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/24/24 15:14	1
Calcium	**74**		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 15:14	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/24/24 15:14	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 14:12	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/24/24 15:14	1
Magnesium	**27**		0.20	0.049	mg/L		07/22/24 15:20	07/24/24 15:14	1
Molybdenum	**0.0099**		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 15:14	1
Potassium	**4.6**		0.50	0.11	mg/L		07/22/24 15:20	07/24/24 15:14	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 15:14	1
Sodium	**40**		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 14:12	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/24/24 15:14	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		07/30/24 11:35	07/31/24 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**70**	**B**	5.0	0.58	mg/L			08/01/24 06:00	5
Sulfate (EPA 300.0)	**58**		5.0	1.0	mg/L			08/01/24 06:00	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**	**B**	5.0	3.7	mg/L			07/30/24 19:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			07/30/24 19:13	1
Total Dissolved Solids (SM 2540C)	**430**		10	4.3	mg/L			07/22/24 21:16	1
Fluoride (SM 4500 F C)	**0.27**		0.10	0.056	mg/L			07/23/24 14:59	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.22**				ft			07/16/24 15:40	1
Field pH	**7.27**				SU			07/16/24 15:40	1
Field Temperature	**22.1**				Degrees C			07/16/24 15:40	1
Oxidation Reduction Potential	**192.9**				millivolts			07/16/24 15:40	1
Oxygen, Dissolved	**0.48**				mg/L			07/16/24 15:40	1
Specific Conductance	**823**				umhos/cm			07/16/24 15:40	1
Turbidity	**1.12**				NTU			07/16/24 15:40	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_17
Date Collected: 08/06/24 09:10
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-24
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0062**		0.0050	0.0020	mg/L		08/08/24 09:15	08/12/24 15:36	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		08/08/24 09:16	08/09/24 18:13	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/08/24 09:16	08/09/24 18:13	1
Barium	**0.068**		0.0025	0.00073	mg/L		08/08/24 09:16	08/09/24 18:13	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/08/24 09:16	08/09/24 18:13	1
Boron	**0.11**	**B**	0.050	0.013	mg/L		08/08/24 09:16	08/12/24 14:21	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/08/24 09:16	08/09/24 18:13	1
Calcium	**65**		0.20	0.044	mg/L		08/08/24 09:16	08/09/24 18:13	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/08/24 09:16	08/09/24 18:13	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/08/24 09:16	08/09/24 18:13	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/08/24 09:16	08/09/24 18:13	1
Magnesium	**26**		0.20	0.049	mg/L		08/08/24 09:16	08/09/24 18:13	1
Molybdenum	**0.0062**		0.0050	0.0025	mg/L		08/08/24 09:16	08/09/24 18:13	1
Potassium	**4.3**		0.50	0.11	mg/L		08/08/24 09:16	08/09/24 18:13	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/08/24 09:16	08/09/24 18:13	1
Sodium	**47**		0.20	0.077	mg/L		08/08/24 09:16	08/09/24 18:13	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/08/24 09:16	08/09/24 18:13	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		08/08/24 12:00	08/09/24 06:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**68**	**B**	5.0	0.58	mg/L			08/08/24 14:15	5
Sulfate (EPA 300.0)	**55**		5.0	1.0	mg/L			08/08/24 14:15	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**200**	**B**	5.0	3.7	mg/L			08/12/24 17:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/12/24 17:52	1
Total Dissolved Solids (SM 2540C)	**400**		10	4.3	mg/L			08/07/24 23:03	1
Fluoride (SM 4500 F C)	**0.27**		0.10	0.056	mg/L			08/15/24 14:15	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**56.12**				ft			08/06/24 09:10	1
Field pH	**7.24**				SU			08/06/24 09:10	1
Field Temperature	**23.0**				Degrees C			08/06/24 09:10	1
Oxidation Reduction Potential	**88.7**				millivolts			08/06/24 09:10	1
Oxygen, Dissolved	**6.79**				mg/L			08/06/24 09:10	1
Specific Conductance	**789**				umhos/cm			08/06/24 09:10	1
Turbidity	**1.43**				NTU			08/06/24 09:10	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_46
Date Collected: 08/06/24 09:55
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-33
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0080**		0.0050	0.0020	mg/L		08/08/24 09:15	08/12/24 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/08/24 09:16	08/09/24 18:57	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/08/24 09:16	08/09/24 18:57	1
Barium	**0.063**		0.0025	0.00073	mg/L		08/08/24 09:16	08/09/24 18:57	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/08/24 09:16	08/09/24 18:57	1
Boron	**0.19**	**B**	0.050	0.013	mg/L		08/08/24 09:16	08/12/24 14:59	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/08/24 09:16	08/09/24 18:57	1
Calcium	**77**		0.20	0.044	mg/L		08/08/24 09:16	08/09/24 18:57	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/08/24 09:16	08/09/24 18:57	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/08/24 09:16	08/09/24 18:57	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/08/24 09:16	08/09/24 18:57	1
Magnesium	**30**		0.20	0.049	mg/L		08/08/24 09:16	08/09/24 18:57	1
Molybdenum	**0.017**		0.0050	0.0025	mg/L		08/08/24 09:16	08/09/24 18:57	1
Potassium	**4.1**		0.50	0.11	mg/L		08/08/24 09:16	08/09/24 18:57	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/08/24 09:16	08/09/24 18:57	1
Sodium	**46**		0.20	0.077	mg/L		08/08/24 09:16	08/09/24 18:57	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/08/24 09:16	08/09/24 18:57	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		08/08/24 12:00	08/09/24 07:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**67**	**B**	5.0	0.58	mg/L			08/08/24 18:10	5
Sulfate (EPA 300.0)	**58**		5.0	1.0	mg/L			08/08/24 18:10	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**	**B**	5.0	3.7	mg/L			08/13/24 15:06	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/13/24 15:06	1
Total Dissolved Solids (SM 2540C)	**410**		10	4.3	mg/L			08/08/24 00:59	1
Fluoride (SM 4500 F C)	**0.24**		0.10	0.056	mg/L			08/15/24 15:38	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**51.61**				ft			08/06/24 09:55	1
Field pH	**7.24**				SU			08/06/24 09:55	1
Field Temperature	**19.5**				Degrees C			08/06/24 09:55	1
Oxidation Reduction Potential	**116.6**				millivolts			08/06/24 09:55	1
Oxygen, Dissolved	**1.94**				mg/L			08/06/24 09:55	1
Specific Conductance	**857**				umhos/cm			08/06/24 09:55	1
Turbidity	**1.51**				NTU			08/06/24 09:55	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_47
Date Collected: 08/06/24 11:20
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-34
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.010**		0.0050	0.0020	mg/L		08/08/24 09:15	08/12/24 16:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/08/24 09:16	08/09/24 19:00	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/08/24 09:16	08/09/24 19:00	1
Barium	**0.072**		0.0025	0.00073	mg/L		08/08/24 09:16	08/09/24 19:00	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/08/24 09:16	08/09/24 19:00	1
Boron	**0.36**	**B**	0.050	0.013	mg/L		08/08/24 09:16	08/12/24 15:01	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/08/24 09:16	08/09/24 19:00	1
Calcium	**85**		0.20	0.044	mg/L		08/08/24 09:16	08/09/24 19:00	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/08/24 09:16	08/09/24 19:00	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/08/24 09:16	08/09/24 19:00	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/08/24 09:16	08/09/24 19:00	1
Magnesium	**30**		0.20	0.049	mg/L		08/08/24 09:16	08/09/24 19:00	1
Molybdenum	**0.031**		0.0050	0.0025	mg/L		08/08/24 09:16	08/09/24 19:00	1
Potassium	**4.7**		0.50	0.11	mg/L		08/08/24 09:16	08/09/24 19:00	1
Selenium	**0.0012**	**J**	0.0025	0.00098	mg/L		08/08/24 09:16	08/09/24 19:00	1
Sodium	**51**		0.20	0.077	mg/L		08/08/24 09:16	08/09/24 19:00	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/08/24 09:16	08/09/24 19:00	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		08/08/24 12:00	08/09/24 07:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**65**	**B**	5.0	0.58	mg/L			08/08/24 18:25	5
Sulfate (EPA 300.0)	**73**		5.0	1.0	mg/L			08/08/24 18:25	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**250**	**B**	5.0	3.7	mg/L			08/13/24 15:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/13/24 15:15	1
Total Dissolved Solids (SM 2540C)	**460**		10	4.3	mg/L			08/08/24 01:01	1
Fluoride (SM 4500 F C)	**0.31**		0.10	0.056	mg/L			08/15/24 15:42	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**55.90**				ft			08/06/24 11:20	1
Field pH	**7.17**				SU			08/06/24 11:20	1
Field Temperature	**18.4**				Degrees C			08/06/24 11:20	1
Oxidation Reduction Potential	**143.5**				millivolts			08/06/24 11:20	1
Oxygen, Dissolved	**2.77**				mg/L			08/06/24 11:20	1
Specific Conductance	**907**				umhos/cm			08/06/24 11:20	1
Turbidity	**0.44**				NTU			08/06/24 11:20	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_52
Date Collected: 08/06/24 12:05
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-37
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.010**		0.0050	0.0020	mg/L		08/08/24 09:15	08/12/24 17:16	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		08/08/24 09:16	08/09/24 19:21	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/08/24 09:16	08/09/24 19:21	1
Barium	**0.081**		0.0025	0.00073	mg/L		08/08/24 09:16	08/09/24 19:21	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/08/24 09:16	08/09/24 19:21	1
Boron	**0.28**	**B**	0.050	0.013	mg/L		08/08/24 09:16	08/09/24 19:21	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/08/24 09:16	08/09/24 19:21	1
Calcium	**89**		0.20	0.044	mg/L		08/08/24 09:16	08/09/24 19:21	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/08/24 09:16	08/09/24 19:21	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/08/24 09:16	08/09/24 19:21	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/08/24 09:16	08/09/24 19:21	1
Magnesium	**30**		0.20	0.049	mg/L		08/08/24 09:16	08/09/24 19:21	1
Molybdenum	**0.014**		0.0050	0.0025	mg/L		08/08/24 09:16	08/09/24 19:21	1
Potassium	**5.2**		0.50	0.11	mg/L		08/08/24 09:16	08/09/24 19:21	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/08/24 09:16	08/09/24 19:21	1
Sodium	**52**		0.20	0.077	mg/L		08/08/24 09:16	08/09/24 19:21	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/08/24 09:16	08/09/24 19:21	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		08/08/24 12:00	08/09/24 07:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**70**	**B**	5.0	0.58	mg/L			08/08/24 20:15	5
Sulfate (EPA 300.0)	**60**		5.0	1.0	mg/L			08/08/24 20:15	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**290**	**B**	5.0	3.7	mg/L			08/19/24 16:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/19/24 16:53	1
Total Dissolved Solids (SM 2540C)	**450**		10	4.3	mg/L			08/08/24 01:17	1
Fluoride (SM 4500 F C)	**0.27**		0.10	0.056	mg/L			08/15/24 15:52	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.01**				ft			08/06/24 12:05	1
Field pH	**7.04**				SU			08/06/24 12:05	1
Field Temperature	**20.0**				Degrees C			08/06/24 12:05	1
Oxidation Reduction Potential	**126.9**				millivolts			08/06/24 12:05	1
Oxygen, Dissolved	**0.98**				mg/L			08/06/24 12:05	1
Specific Conductance	**932**				umhos/cm			08/06/24 12:05	1
Turbidity	**1.20**				NTU			08/06/24 12:05	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_54
Date Collected: 08/06/24 10:40
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-38
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.011**		0.0050	0.0020	mg/L		08/08/24 09:15	08/12/24 17:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/08/24 09:16	08/09/24 19:23	1
Arsenic	**0.00023**	**J**	0.0010	0.00023	mg/L		08/08/24 09:16	08/09/24 19:23	1
Barium	**0.046**		0.0025	0.00073	mg/L		08/08/24 09:16	08/09/24 19:23	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/08/24 09:16	08/09/24 19:23	1
Boron	**0.29**	**B**	0.050	0.013	mg/L		08/08/24 09:16	08/09/24 19:23	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/08/24 09:16	08/09/24 19:23	1
Calcium	**78**		0.20	0.044	mg/L		08/08/24 09:16	08/09/24 19:23	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/08/24 09:16	08/09/24 19:23	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/08/24 09:16	08/09/24 19:23	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/08/24 09:16	08/09/24 19:23	1
Magnesium	**31**		0.20	0.049	mg/L		08/08/24 09:16	08/09/24 19:23	1
Molybdenum	**0.025**		0.0050	0.0025	mg/L		08/08/24 09:16	08/09/24 19:23	1
Potassium	**4.3**		0.50	0.11	mg/L		08/08/24 09:16	08/09/24 19:23	1
Selenium	**0.0011**	**J**	0.0025	0.00098	mg/L		08/08/24 09:16	08/09/24 19:23	1
Sodium	**48**		0.20	0.077	mg/L		08/08/24 09:16	08/09/24 19:23	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/08/24 09:16	08/09/24 19:23	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		08/08/24 12:00	08/09/24 07:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**69**	**B**	5.0	0.58	mg/L			08/08/24 20:30	5
Sulfate (EPA 300.0)	**64**		5.0	1.0	mg/L			08/08/24 20:30	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**	**B**	5.0	3.7	mg/L			08/19/24 17:03	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/19/24 17:03	1
Total Dissolved Solids (SM 2540C)	**480**		10	4.3	mg/L			08/08/24 01:20	1
Fluoride (SM 4500 F C)	**0.25**		0.10	0.056	mg/L			08/15/24 15:56	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.59**				ft			08/06/24 10:40	1
Field pH	**7.29**				SU			08/06/24 10:40	1
Field Temperature	**19.0**				Degrees C			08/06/24 10:40	1
Oxidation Reduction Potential	**124.9**				millivolts			08/06/24 10:40	1
Oxygen, Dissolved	**3.07**				mg/L			08/06/24 10:40	1
Specific Conductance	**874**				umhos/cm			08/06/24 10:40	1
Turbidity	**0.81**				NTU			08/06/24 10:40	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_54_FD

Date Collected: 08/06/24 10:45
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-39

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.011**		0.0050	0.0020	mg/L		08/08/24 09:15	08/12/24 17:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/08/24 09:16	08/09/24 19:26	1
Arsenic	**0.00023**	**J**	0.0010	0.00023	mg/L		08/08/24 09:16	08/09/24 19:26	1
Barium	**0.047**		0.0025	0.00073	mg/L		08/08/24 09:16	08/09/24 19:26	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/08/24 09:16	08/09/24 19:26	1
Boron	**0.30**	**B**	0.050	0.013	mg/L		08/08/24 09:16	08/09/24 19:26	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/08/24 09:16	08/09/24 19:26	1
Calcium	**78**		0.20	0.044	mg/L		08/08/24 09:16	08/09/24 19:26	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/08/24 09:16	08/09/24 19:26	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/08/24 09:16	08/09/24 19:26	1
Lead	<0.00050		0.00050	0.00019	mg/L		08/08/24 09:16	08/09/24 19:26	1
Magnesium	**32**		0.20	0.049	mg/L		08/08/24 09:16	08/09/24 19:26	1
Molybdenum	**0.026**		0.0050	0.0025	mg/L		08/08/24 09:16	08/09/24 19:26	1
Potassium	**4.3**		0.50	0.11	mg/L		08/08/24 09:16	08/09/24 19:26	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/08/24 09:16	08/09/24 19:26	1
Sodium	**48**		0.20	0.077	mg/L		08/08/24 09:16	08/09/24 19:26	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/08/24 09:16	08/09/24 19:26	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		08/08/24 12:00	08/09/24 07:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**69**	**B**	5.0	0.58	mg/L			08/08/24 20:46	5
Sulfate (EPA 300.0)	**65**		5.0	1.0	mg/L			08/08/24 20:46	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**	**B**	5.0	3.7	mg/L			08/19/24 17:13	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			08/19/24 17:13	1
Total Dissolved Solids (SM 2540C)	**430**		10	4.3	mg/L			08/08/24 01:22	1
Fluoride (SM 4500 F C)	**0.25**		0.10	0.056	mg/L			08/15/24 16:01	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**53.59**				ft			08/06/24 10:45	1
Field pH	**7.29**				SU			08/06/24 10:45	1
Field Temperature	**19.0**				Degrees C			08/06/24 10:45	1
Oxidation Reduction Potential	**124.9**				millivolts			08/06/24 10:45	1
Oxygen, Dissolved	**3.07**				mg/L			08/06/24 10:45	1
Specific Conductance	**874**				umhos/cm			08/06/24 10:45	1
Turbidity	**0.81**				NTU			08/06/24 10:45	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_55

Date Collected: 07/15/24 11:45
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-47

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	50.91				ft			07/15/24 11:45	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_XSG01

Date Collected: 07/15/24 11:20
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-48

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	10.14				ft			07/15/24 11:20	1

Client Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_YSG_ILRIVER

Date Collected: 07/15/24 12:30
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-49

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	5.25				ft			07/15/24 12:30	1

Definitions/Glossary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
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: HEN-24Q3

Job ID: 500-253560-5
SDG: HEN_257_803

Metals

Prep Batch: 777840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total Recoverable	Water	3005A	
500-253560-2	HEN_12	Total Recoverable	Water	3005A	
500-253560-3	HEN_13	Total Recoverable	Water	3005A	
500-253560-9	HEN_08	Total Recoverable	Water	3005A	
500-253560-10	HEN_08&D	Total Recoverable	Water	3005A	
500-253560-12	HEN_16	Total Recoverable	Water	3005A	
500-253560-13	HEN_16_FD	Total Recoverable	Water	3005A	
MB 500-777840/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-777840/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-253560-1 MS	HEN_07	Total Recoverable	Water	3005A	
500-253560-1 MSD	HEN_07	Total Recoverable	Water	3005A	
500-253560-1 DU	HEN_07	Total Recoverable	Water	3005A	

Analysis Batch: 778011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-2	HEN_12	Total Recoverable	Water	6020B	777840
500-253560-3	HEN_13	Total Recoverable	Water	6020B	777840
500-253560-9	HEN_08	Total Recoverable	Water	6020B	777840
500-253560-10	HEN_08&D	Total Recoverable	Water	6020B	777840
500-253560-12	HEN_16	Total Recoverable	Water	6020B	777840
500-253560-13	HEN_16_FD	Total Recoverable	Water	6020B	777840
MB 500-777840/1-A	Method Blank	Total Recoverable	Water	6020B	777840
LCS 500-777840/2-A	Lab Control Sample	Total Recoverable	Water	6020B	777840
500-253560-1 MS	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-1 MSD	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-1 DU	HEN_07	Total Recoverable	Water	6020B	777840

Analysis Batch: 778290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-2	HEN_12	Total Recoverable	Water	6020B	777840
500-253560-3	HEN_13	Total Recoverable	Water	6020B	777840
500-253560-9	HEN_08	Total Recoverable	Water	6020B	777840
500-253560-10	HEN_08&D	Total Recoverable	Water	6020B	777840
500-253560-12	HEN_16	Total Recoverable	Water	6020B	777840
500-253560-13	HEN_16_FD	Total Recoverable	Water	6020B	777840
MB 500-777840/1-A	Method Blank	Total Recoverable	Water	6020B	777840
LCS 500-777840/2-A	Lab Control Sample	Total Recoverable	Water	6020B	777840
500-253560-1 MS	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-1 MSD	HEN_07	Total Recoverable	Water	6020B	777840
500-253560-1 DU	HEN_07	Total Recoverable	Water	6020B	777840

Analysis Batch: 778401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-9	HEN_08	Total Recoverable	Water	6020B	777840
500-253560-10	HEN_08&D	Total Recoverable	Water	6020B	777840
500-253560-12	HEN_16	Total Recoverable	Water	6020B	777840
500-253560-13	HEN_16_FD	Total Recoverable	Water	6020B	777840

QC Association Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Metals

Prep Batch: 778656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-2	HEN_12	Total Recoverable	Water	200.7	
500-253560-3	HEN_13	Total Recoverable	Water	200.7	
500-253560-12	HEN_16	Total Recoverable	Water	200.7	
500-253560-13	HEN_16_FD	Total Recoverable	Water	200.7	
MB 500-778656/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-778656/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-253560-2 MS	HEN_12	Total Recoverable	Water	200.7	
500-253560-2 DU	HEN_12	Total Recoverable	Water	200.7	

Prep Batch: 778850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	7470A	
500-253560-2	HEN_12	Total/NA	Water	7470A	
500-253560-3	HEN_13	Total/NA	Water	7470A	
MB 500-778850/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-778850/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 778991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total Recoverable	Water	200.7	
500-253560-9	HEN_08	Total Recoverable	Water	200.7	
500-253560-10	HEN_08&D	Total Recoverable	Water	200.7	
MB 500-778991/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-778991/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 779038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-9	HEN_08	Total/NA	Water	7470A	
500-253560-10	HEN_08&D	Total/NA	Water	7470A	
500-253560-12	HEN_16	Total/NA	Water	7470A	
500-253560-13	HEN_16_FD	Total/NA	Water	7470A	
MB 500-779038/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-779038/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-253560-13 MS	HEN_16_FD	Total/NA	Water	7470A	
500-253560-13 MSD	HEN_16_FD	Total/NA	Water	7470A	
500-253560-13 DU	HEN_16_FD	Total/NA	Water	7470A	

Analysis Batch: 779040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	7470A	778850
500-253560-2	HEN_12	Total/NA	Water	7470A	778850
500-253560-3	HEN_13	Total/NA	Water	7470A	778850
MB 500-778850/12-A	Method Blank	Total/NA	Water	7470A	778850
LCS 500-778850/13-A	Lab Control Sample	Total/NA	Water	7470A	778850

Analysis Batch: 779270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-9	HEN_08	Total/NA	Water	7470A	779038
500-253560-10	HEN_08&D	Total/NA	Water	7470A	779038
500-253560-12	HEN_16	Total/NA	Water	7470A	779038
500-253560-13	HEN_16_FD	Total/NA	Water	7470A	779038

QC Association Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Metals (Continued)

Analysis Batch: 779270 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-779038/12-A	Method Blank	Total/NA	Water	7470A	779038
LCS 500-779038/13-A	Lab Control Sample	Total/NA	Water	7470A	779038
500-253560-13 MS	HEN_16_FD	Total/NA	Water	7470A	779038
500-253560-13 MSD	HEN_16_FD	Total/NA	Water	7470A	779038
500-253560-13 DU	HEN_16_FD	Total/NA	Water	7470A	779038

Analysis Batch: 779318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total Recoverable	Water	200.7 Rev 4.4	778991
500-253560-9	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	778991
500-253560-10	HEN_08&D	Total Recoverable	Water	200.7 Rev 4.4	778991
MB 500-778991/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	778991
LCS 500-778991/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	778991

Analysis Batch: 779447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-2	HEN_12	Total Recoverable	Water	200.7 Rev 4.4	778656
500-253560-3	HEN_13	Total Recoverable	Water	200.7 Rev 4.4	778656
500-253560-12	HEN_16	Total Recoverable	Water	200.7 Rev 4.4	778656
500-253560-13	HEN_16_FD	Total Recoverable	Water	200.7 Rev 4.4	778656
MB 500-778656/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	778656
LCS 500-778656/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	778656
500-253560-2 MS	HEN_12	Total Recoverable	Water	200.7 Rev 4.4	778656
500-253560-2 DU	HEN_12	Total Recoverable	Water	200.7 Rev 4.4	778656

Prep Batch: 780356

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total Recoverable	Water	200.7	
500-253560-33	HEN_46	Total Recoverable	Water	200.7	
500-253560-34	HEN_47	Total Recoverable	Water	200.7	
500-253560-37	HEN_52	Total Recoverable	Water	200.7	
500-253560-38	HEN_54	Total Recoverable	Water	200.7	
500-253560-39	HEN_54_FD	Total Recoverable	Water	200.7	
MB 500-780356/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-780356/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 780445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total Recoverable	Water	3005A	
500-253560-33	HEN_46	Total Recoverable	Water	3005A	
500-253560-34	HEN_47	Total Recoverable	Water	3005A	
500-253560-37	HEN_52	Total Recoverable	Water	3005A	
500-253560-38	HEN_54	Total Recoverable	Water	3005A	
500-253560-39	HEN_54_FD	Total Recoverable	Water	3005A	
MB 500-780445/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-780445/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 780506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total/NA	Water	7470A	
500-253560-33	HEN_46	Total/NA	Water	7470A	

QC Association Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

Metals (Continued)

Prep Batch: 780506 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-34	HEN_47	Total/NA	Water	7470A	
500-253560-37	HEN_52	Total/NA	Water	7470A	
500-253560-38	HEN_54	Total/NA	Water	7470A	
500-253560-39	HEN_54_FD	Total/NA	Water	7470A	
MB 500-780506/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-780506/13-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 500-780506/40-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Analysis Batch: 780728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total/NA	Water	7470A	780506
500-253560-33	HEN_46	Total/NA	Water	7470A	780506
500-253560-34	HEN_47	Total/NA	Water	7470A	780506
500-253560-37	HEN_52	Total/NA	Water	7470A	780506
500-253560-38	HEN_54	Total/NA	Water	7470A	780506
500-253560-39	HEN_54_FD	Total/NA	Water	7470A	780506
MB 500-780506/12-A	Method Blank	Total/NA	Water	7470A	780506
LCS 500-780506/13-A	Lab Control Sample	Total/NA	Water	7470A	780506
LCSD 500-780506/40-A	Lab Control Sample Dup	Total/NA	Water	7470A	780506

Analysis Batch: 780867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total Recoverable	Water	6020B	780445
500-253560-33	HEN_46	Total Recoverable	Water	6020B	780445
500-253560-34	HEN_47	Total Recoverable	Water	6020B	780445
500-253560-37	HEN_52	Total Recoverable	Water	6020B	780445
500-253560-38	HEN_54	Total Recoverable	Water	6020B	780445
500-253560-39	HEN_54_FD	Total Recoverable	Water	6020B	780445
MB 500-780445/1-A	Method Blank	Total Recoverable	Water	6020B	780445
LCS 500-780445/2-A	Lab Control Sample	Total Recoverable	Water	6020B	780445

Analysis Batch: 781097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total Recoverable	Water	6020B	780445
500-253560-33	HEN_46	Total Recoverable	Water	6020B	780445
500-253560-34	HEN_47	Total Recoverable	Water	6020B	780445
MB 500-780445/1-A	Method Blank	Total Recoverable	Water	6020B	780445
LCS 500-780445/2-A	Lab Control Sample	Total Recoverable	Water	6020B	780445

Analysis Batch: 781099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total Recoverable	Water	200.7 Rev 4.4	780356
500-253560-33	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	780356
500-253560-34	HEN_47	Total Recoverable	Water	200.7 Rev 4.4	780356
500-253560-37	HEN_52	Total Recoverable	Water	200.7 Rev 4.4	780356
500-253560-38	HEN_54	Total Recoverable	Water	200.7 Rev 4.4	780356
500-253560-39	HEN_54_FD	Total Recoverable	Water	200.7 Rev 4.4	780356
MB 500-780356/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	780356
LCS 500-780356/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	780356

QC Association Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

General Chemistry

Analysis Batch: 777221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	SM 2540C	
500-253560-2	HEN_12	Total/NA	Water	SM 2540C	
500-253560-3	HEN_13	Total/NA	Water	SM 2540C	
MB 500-777221/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-777221/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 777696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	SM 2320B	
500-253560-2	HEN_12	Total/NA	Water	SM 2320B	
500-253560-3	HEN_13	Total/NA	Water	SM 2320B	
MB 500-777696/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-777696/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 777853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-9	HEN_08	Total/NA	Water	SM 2540C	
500-253560-10	HEN_08&D	Total/NA	Water	SM 2540C	
500-253560-12	HEN_16	Total/NA	Water	SM 2540C	
500-253560-13	HEN_16_FD	Total/NA	Water	SM 2540C	
MB 500-777853/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-777853/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 778153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-2	HEN_12	Total/NA	Water	SM 4500 F C	
500-253560-3	HEN_13	Total/NA	Water	SM 4500 F C	
500-253560-9	HEN_08	Total/NA	Water	SM 4500 F C	
500-253560-10	HEN_08&D	Total/NA	Water	SM 4500 F C	
500-253560-12	HEN_16	Total/NA	Water	SM 4500 F C	
500-253560-13	HEN_16_FD	Total/NA	Water	SM 4500 F C	
MB 500-778153/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-778153/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-778153/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-778153/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 779286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-9	HEN_08	Total/NA	Water	SM 2320B	
500-253560-10	HEN_08&D	Total/NA	Water	SM 2320B	
500-253560-12	HEN_16	Total/NA	Water	SM 2320B	
500-253560-13	HEN_16_FD	Total/NA	Water	SM 2320B	
MB 500-779286/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-779286/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-779286/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-779286/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 779304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	300.0	
500-253560-2	HEN_12	Total/NA	Water	300.0	

QC Association Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

General Chemistry (Continued)

Analysis Batch: 779304 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-3	HEN_13	Total/NA	Water	300.0	
500-253560-9	HEN_08	Total/NA	Water	300.0	
500-253560-10	HEN_08&D	Total/NA	Water	300.0	
500-253560-12	HEN_16	Total/NA	Water	300.0	
500-253560-13	HEN_16_FD	Total/NA	Water	300.0	
MB 500-779304/3	Method Blank	Total/NA	Water	300.0	
MB 500-779304/33	Method Blank	Total/NA	Water	300.0	
LCS 500-779304/34	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-779304/4	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	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: 780361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-33	HEN_46	Total/NA	Water	SM 2540C	
500-253560-34	HEN_47	Total/NA	Water	SM 2540C	
500-253560-37	HEN_52	Total/NA	Water	SM 2540C	
500-253560-38	HEN_54	Total/NA	Water	SM 2540C	
500-253560-39	HEN_54_FD	Total/NA	Water	SM 2540C	
MB 500-780361/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-780361/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 780474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total/NA	Water	300.0	
500-253560-33	HEN_46	Total/NA	Water	300.0	
500-253560-34	HEN_47	Total/NA	Water	300.0	
500-253560-37	HEN_52	Total/NA	Water	300.0	
500-253560-38	HEN_54	Total/NA	Water	300.0	
500-253560-39	HEN_54_FD	Total/NA	Water	300.0	
MB 500-780474/13	Method Blank	Total/NA	Water	300.0	
LCS 500-780474/14	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 780660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	SM 4500 F C	
MB 500-780660/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-780660/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-253560-1 MS	HEN_07	Total/NA	Water	SM 4500 F C	
500-253560-1 MSD	HEN_07	Total/NA	Water	SM 4500 F C	

Analysis Batch: 781135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	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	

QC Association Summary

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

Job ID: 500-253560-5
SDG: HEN_257_803

General Chemistry

Analysis Batch: 781414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-33	HEN_46	Total/NA	Water	SM 2320B	
500-253560-34	HEN_47	Total/NA	Water	SM 2320B	
MB 500-781414/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-781414/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 781815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total/NA	Water	SM 4500 F C	
500-253560-33	HEN_46	Total/NA	Water	SM 4500 F C	
500-253560-34	HEN_47	Total/NA	Water	SM 4500 F C	
500-253560-37	HEN_52	Total/NA	Water	SM 4500 F C	
500-253560-38	HEN_54	Total/NA	Water	SM 4500 F C	
500-253560-39	HEN_54_FD	Total/NA	Water	SM 4500 F C	
MB 500-781815/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-781815/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-781815/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-781815/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 782341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-37	HEN_52	Total/NA	Water	SM 2320B	
500-253560-38	HEN_54	Total/NA	Water	SM 2320B	
500-253560-39	HEN_54_FD	Total/NA	Water	SM 2320B	
MB 500-782341/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-782341/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Field Service / Mobile Lab

Analysis Batch: 781194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	Field Sampling	
500-253560-2	HEN_12	Total/NA	Water	Field Sampling	
500-253560-3	HEN_13	Total/NA	Water	Field Sampling	
500-253560-9	HEN_08	Total/NA	Water	Field Sampling	
500-253560-10	HEN_08&D	Total/NA	Water	Field Sampling	
500-253560-12	HEN_16	Total/NA	Water	Field Sampling	
500-253560-13	HEN_16_FD	Total/NA	Water	Field Sampling	
500-253560-24	HEN_17	Total/NA	Water	Field Sampling	
500-253560-33	HEN_46	Total/NA	Water	Field Sampling	
500-253560-34	HEN_47	Total/NA	Water	Field Sampling	
500-253560-37	HEN_52	Total/NA	Water	Field Sampling	
500-253560-38	HEN_54	Total/NA	Water	Field Sampling	
500-253560-39	HEN_54_FD	Total/NA	Water	Field Sampling	
500-253560-47	HEN_55	Total/NA	Water	Field Sampling	
500-253560-48	HEN_XSG01	Total/NA	Water	Field Sampling	
500-253560-49	HEN_YSG_ILRIVER	Total/NA	Water	Field Sampling	

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-778656/1-A
Matrix: Water
Analysis Batch: 779447

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 778656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		07/26/24 15:25	07/31/24 12:58	1

Lab Sample ID: LCS 500-778656/2-A
Matrix: Water
Analysis Batch: 779447

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 778656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.231		mg/L		93	85 - 115

Lab Sample ID: 500-253560-2 MS
Matrix: Water
Analysis Batch: 779447

Client Sample ID: HEN_12
Prep Type: Total Recoverable
Prep Batch: 778656

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0083		0.250	0.252		mg/L		97	70 - 130

Lab Sample ID: 500-253560-2 DU
Matrix: Water
Analysis Batch: 779447

Client Sample ID: HEN_12
Prep Type: Total Recoverable
Prep Batch: 778656

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.0083		0.00864		mg/L		5	20

Lab Sample ID: MB 500-778991/1-A
Matrix: Water
Analysis Batch: 779318

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 778991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00272	J	0.0050	0.0020	mg/L		07/30/24 08:33	07/31/24 13:09	1

Lab Sample ID: LCS 500-778991/2-A
Matrix: Water
Analysis Batch: 779318

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 778991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.247		mg/L		99	85 - 115

Lab Sample ID: MB 500-780356/1-A
Matrix: Water
Analysis Batch: 781099

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 780356

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		08/08/24 09:15	08/12/24 15:28	1

Lab Sample ID: LCS 500-780356/2-A
Matrix: Water
Analysis Batch: 781099

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 780356

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.265		mg/L		106	85 - 115

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-777840/1-A
Matrix: Water
Analysis Batch: 778011

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0010		0.0010	0.00023	mg/L		07/22/24 15:20	07/23/24 13:27	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		07/22/24 15:20	07/23/24 13:27	1
Boron	0.0490	J	0.050	0.013	mg/L		07/22/24 15:20	07/23/24 13:27	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		07/22/24 15:20	07/23/24 13:27	1
Chromium	<0.0050		0.0050	0.0011	mg/L		07/22/24 15:20	07/23/24 13:27	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		07/22/24 15:20	07/23/24 13:27	1
Lead	<0.00050		0.00050	0.00019	mg/L		07/22/24 15:20	07/23/24 13:27	1
Magnesium	<0.20		0.20	0.049	mg/L		07/22/24 15:20	07/23/24 13:27	1
Potassium	<0.50		0.50	0.11	mg/L		07/22/24 15:20	07/23/24 13:27	1
Sodium	<0.20		0.20	0.077	mg/L		07/22/24 15:20	07/23/24 13:27	1
Thallium	<0.0020		0.0020	0.00057	mg/L		07/22/24 15:20	07/23/24 13:27	1

Lab Sample ID: MB 500-777840/1-A
Matrix: Water
Analysis Batch: 778290

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		07/22/24 15:20	07/24/24 14:28	1
Barium	<0.0025		0.0025	0.00073	mg/L		07/22/24 15:20	07/24/24 14:28	1
Calcium	<0.20		0.20	0.044	mg/L		07/22/24 15:20	07/24/24 14:28	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		07/22/24 15:20	07/24/24 14:28	1
Selenium	<0.0025		0.0025	0.00098	mg/L		07/22/24 15:20	07/24/24 14:28	1

Lab Sample ID: LCS 500-777840/2-A
Matrix: Water
Analysis Batch: 778011

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0875		mg/L		87	80 - 120
Beryllium	0.0500	0.0467		mg/L		93	80 - 120
Boron	1.00	0.933		mg/L		93	80 - 120
Cadmium	0.0500	0.0449		mg/L		90	80 - 120
Chromium	0.200	0.181		mg/L		91	80 - 120
Cobalt	0.500	0.459		mg/L		92	80 - 120
Lead	0.100	0.0868		mg/L		87	80 - 120
Magnesium	10.0	9.11		mg/L		91	80 - 120
Potassium	10.0	8.77		mg/L		88	80 - 120
Sodium	10.0	9.03		mg/L		90	80 - 120
Thallium	0.100	0.0872		mg/L		87	80 - 120

Lab Sample ID: LCS 500-777840/2-A
Matrix: Water
Analysis Batch: 778290

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 777840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.496		mg/L		99	80 - 120
Barium	0.500	0.500		mg/L		100	80 - 120
Calcium	10.0	9.47		mg/L		95	80 - 120
Molybdenum	1.00	0.942		mg/L		94	80 - 120

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

Lab Sample ID: LCS 500-777840/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 778290 — **Prep Batch: 777840**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.100	0.0968		mg/L		97	80 - 120

Lab Sample ID: 500-253560-1 MS — **Client Sample ID: HEN_07**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 778011 — **Prep Batch: 777840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0010		0.0500	0.0447		mg/L		89	75 - 125
Boron	0.093	B	1.00	0.929		mg/L		84	75 - 125
Cobalt	0.0023		0.500	0.427		mg/L		85	75 - 125
Sodium	77		10.0	76.8	4	mg/L		-5	75 - 125

Lab Sample ID: 500-253560-1 MS — **Client Sample ID: HEN_07**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 778290 — **Prep Batch: 777840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.491		mg/L		98	75 - 125
Arsenic	<0.0010		0.100	0.0949		mg/L		95	75 - 125
Barium	0.17		0.500	0.648		mg/L		95	75 - 125
Cadmium	<0.00050		0.0500	0.0475		mg/L		95	75 - 125
Calcium	170		10.0	165	4	mg/L		-57	75 - 125
Chromium	<0.0050		0.200	0.200		mg/L		100	75 - 125
Lead	<0.00050		0.100	0.0976		mg/L		98	75 - 125
Magnesium	63		10.0	66.9	4	mg/L		36	75 - 125
Molybdenum	<0.0050		1.00	0.936		mg/L		94	75 - 125
Potassium	3.8		10.0	13.0		mg/L		92	75 - 125
Selenium	<0.0025		0.100	0.0942		mg/L		94	75 - 125
Thallium	<0.0020		0.100	0.0998		mg/L		100	75 - 125

Lab Sample ID: 500-253560-1 MSD — **Client Sample ID: HEN_07**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 778011 — **Prep Batch: 777840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.0010		0.0500	0.0465		mg/L		93	75 - 125	4	20
Boron	0.093	B	1.00	1.00		mg/L		91	75 - 125	7	20
Cobalt	0.0023		0.500	0.451		mg/L		90	75 - 125	5	20
Sodium	77		10.0	81.1	4	mg/L		38	75 - 125	5	20

Lab Sample ID: 500-253560-1 MSD — **Client Sample ID: HEN_07**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 778290 — **Prep Batch: 777840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030		0.500	0.519		mg/L		104	75 - 125	6	20
Arsenic	<0.0010		0.100	0.101		mg/L		101	75 - 125	6	20
Barium	0.17		0.500	0.681		mg/L		101	75 - 125	5	20
Cadmium	<0.00050		0.0500	0.0507		mg/L		101	75 - 125	6	20
Calcium	170		10.0	173	4	mg/L		22	75 - 125	5	20

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

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

Lab Sample ID: 500-253560-1 MSD — **Client Sample ID: HEN_07**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 778290 — **Prep Batch: 777840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	<0.0050		0.200	0.211		mg/L		105	75 - 125	5	20
Lead	<0.00050		0.100	0.103		mg/L		103	75 - 125	5	20
Magnesium	63		10.0	70.8	4	mg/L		75	75 - 125	6	20
Molybdenum	<0.0050		1.00	0.997		mg/L		100	75 - 125	6	20
Potassium	3.8		10.0	13.8		mg/L		100	75 - 125	6	20
Selenium	<0.0025		0.100	0.100		mg/L		100	75 - 125	6	20
Thallium	<0.0020		0.100	0.106		mg/L		106	75 - 125	6	20

Lab Sample ID: 500-253560-1 DU — **Client Sample ID: HEN_07**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 778011 — **Prep Batch: 777840**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Beryllium	<0.0010		<0.0010		mg/L		NC	20
Boron	0.093	B	0.0717	F5	mg/L		26	20
Cobalt	0.0023		0.00221		mg/L		3	20
Sodium	77		76.1		mg/L		2	20

Lab Sample ID: 500-253560-1 DU — **Client Sample ID: HEN_07**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 778290 — **Prep Batch: 777840**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	<0.0010		<0.0010		mg/L		NC	20
Barium	0.17		0.173		mg/L		0.7	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	170		170		mg/L		0.3	20
Chromium	<0.0050		<0.0050		mg/L		NC	20
Lead	<0.00050		<0.00050		mg/L		NC	20
Magnesium	63		62.8		mg/L		0.7	20
Molybdenum	<0.0050		<0.0050		mg/L		NC	20
Potassium	3.8		3.78		mg/L		1	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: MB 500-780445/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 780867 — **Prep Batch: 780445**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		08/08/24 09:16	08/09/24 18:08	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		08/08/24 09:16	08/09/24 18:08	1
Barium	<0.0025		0.0025	0.00073	mg/L		08/08/24 09:16	08/09/24 18:08	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		08/08/24 09:16	08/09/24 18:08	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		08/08/24 09:16	08/09/24 18:08	1
Calcium	<0.20		0.20	0.044	mg/L		08/08/24 09:16	08/09/24 18:08	1
Chromium	<0.0050		0.0050	0.0011	mg/L		08/08/24 09:16	08/09/24 18:08	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		08/08/24 09:16	08/09/24 18:08	1

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

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

Lab Sample ID: MB 500-780445/1-A
Matrix: Water
Analysis Batch: 780867

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 780445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.00050		0.00050	0.00019	mg/L		08/08/24 09:16	08/09/24 18:08	1
Magnesium	<0.20		0.20	0.049	mg/L		08/08/24 09:16	08/09/24 18:08	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		08/08/24 09:16	08/09/24 18:08	1
Potassium	<0.50		0.50	0.11	mg/L		08/08/24 09:16	08/09/24 18:08	1
Selenium	<0.0025		0.0025	0.00098	mg/L		08/08/24 09:16	08/09/24 18:08	1
Sodium	<0.20		0.20	0.077	mg/L		08/08/24 09:16	08/09/24 18:08	1
Thallium	<0.0020		0.0020	0.00057	mg/L		08/08/24 09:16	08/09/24 18:08	1

Lab Sample ID: MB 500-780445/1-A
Matrix: Water
Analysis Batch: 781097

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 780445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	0.0226	J	0.050	0.013	mg/L		08/08/24 09:16	08/12/24 14:16	1

Lab Sample ID: LCS 500-780445/2-A
Matrix: Water
Analysis Batch: 780867

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 780445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.494		mg/L		99	80 - 120
Arsenic	0.100	0.0971		mg/L		97	80 - 120
Barium	0.500	0.508		mg/L		102	80 - 120
Beryllium	0.0500	0.0536		mg/L		107	80 - 120
Cadmium	0.0500	0.0501		mg/L		100	80 - 120
Calcium	10.0	8.96		mg/L		90	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Cobalt	0.500	0.540		mg/L		108	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Magnesium	10.0	10.5		mg/L		105	80 - 120
Molybdenum	1.00	0.965		mg/L		96	80 - 120
Potassium	10.0	10.2		mg/L		102	80 - 120
Selenium	0.100	0.0950		mg/L		95	80 - 120
Sodium	10.0	10.4		mg/L		104	80 - 120
Thallium	0.100	0.104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-780445/2-A
Matrix: Water
Analysis Batch: 781097

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 780445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	1.00	1.07		mg/L		107	80 - 120

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-778850/12-A
Matrix: Water
Analysis Batch: 779040

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 778850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/29/24 11:55	07/30/24 08:00	1

Lab Sample ID: LCS 500-778850/13-A
Matrix: Water
Analysis Batch: 779040

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 778850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00195		mg/L		97	80 - 120

Lab Sample ID: MB 500-779038/12-A
Matrix: Water
Analysis Batch: 779270

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 779038

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		07/30/24 11:35	07/31/24 07:53	1

Lab Sample ID: LCS 500-779038/13-A
Matrix: Water
Analysis Batch: 779270

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 779038

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00205		mg/L		103	80 - 120

Lab Sample ID: 500-253560-13 MS
Matrix: Water
Analysis Batch: 779270

Client Sample ID: HEN_16_FD
Prep Type: Total/NA
Prep Batch: 779038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.00020		0.000999	0.000997		mg/L		100	75 - 125

Lab Sample ID: 500-253560-13 MSD
Matrix: Water
Analysis Batch: 779270

Client Sample ID: HEN_16_FD
Prep Type: Total/NA
Prep Batch: 779038

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.00020		0.000999	0.000961		mg/L		96	75 - 125	4	20

Lab Sample ID: 500-253560-13 DU
Matrix: Water
Analysis Batch: 779270

Client Sample ID: HEN_16_FD
Prep Type: Total/NA
Prep Batch: 779038

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

Lab Sample ID: MB 500-780506/12-A
Matrix: Water
Analysis Batch: 780728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 780506

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		08/08/24 12:00	08/09/24 06:33	1

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 500-780506/13-A
Matrix: Water
Analysis Batch: 780728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 780506

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: LCSD 500-780506/40-A
Matrix: Water
Analysis Batch: 780728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 780506

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00200	0.00200		mg/L		100	80 - 120	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-779304/3
Matrix: Water
Analysis Batch: 779304

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.168	J	1.0	0.12	mg/L			07/31/24 16:42	1
Sulfate	<1.0		1.0	0.21	mg/L			07/31/24 16:42	1

Lab Sample ID: MB 500-779304/33
Matrix: Water
Analysis Batch: 779304

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.163	J	1.0	0.12	mg/L			08/01/24 00:32	1
Sulfate	<1.0		1.0	0.21	mg/L			08/01/24 00:32	1

Lab Sample ID: LCS 500-779304/34
Matrix: Water
Analysis Batch: 779304

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.5		mg/L		103	90 - 110
Sulfate	20.0	21.4		mg/L		107	90 - 110

Lab Sample ID: LCS 500-779304/4
Matrix: Water
Analysis Batch: 779304

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.4		mg/L		102	90 - 110
Sulfate	20.0	21.4		mg/L		107	90 - 110

Lab Sample ID: MB 500-780474/13
Matrix: Water
Analysis Batch: 780474

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.172	J	1.0	0.12	mg/L			08/08/24 13:44	1
Sulfate	<1.0		1.0	0.21	mg/L			08/08/24 13:44	1

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-780474/14
Matrix: Water
Analysis Batch: 780474

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.5		mg/L		103	90 - 110
Sulfate	20.0	21.6		mg/L		108	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-777696/28
Matrix: Water
Analysis Batch: 777696

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			07/19/24 20:43	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			07/19/24 20:43	1

Lab Sample ID: LCS 500-777696/4
Matrix: Water
Analysis Batch: 777696

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	105		mg/L		105	80 - 120

Lab Sample ID: MB 500-779286/28
Matrix: Water
Analysis Batch: 779286

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	6.15		5.0	3.7	mg/L			07/30/24 16:38	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			07/30/24 16:38	1

Lab Sample ID: MB 500-779286/3
Matrix: Water
Analysis Batch: 779286

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	5.15		5.0	3.7	mg/L			07/30/24 10:17	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			07/30/24 10:17	1

Lab Sample ID: LCS 500-779286/29
Matrix: Water
Analysis Batch: 779286

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	104		mg/L		104	80 - 120

Lab Sample ID: LCS 500-779286/4
Matrix: Water
Analysis Batch: 779286

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	109		mg/L		109	80 - 120

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

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 CaCO3	5.15		5.0	3.7	mg/L			08/12/24 16:56	1
Carbonate Alkalinity as CaCO3	<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

Lab Sample ID: MB 500-781414/3
Matrix: Water
Analysis Batch: 781414

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	4.45	J	5.0	3.7	mg/L			08/13/24 14:04	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			08/13/24 14:04	1

Lab Sample ID: LCS 500-781414/4
Matrix: Water
Analysis Batch: 781414

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	106		mg/L		106	80 - 120

Lab Sample ID: MB 500-782341/3
Matrix: Water
Analysis Batch: 782341

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	4.26	J	5.0	3.7	mg/L			08/19/24 16:11	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			08/19/24 16:11	1

Lab Sample ID: LCS 500-782341/4
Matrix: Water
Analysis Batch: 782341

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 500-777221/1
Matrix: Water
Analysis Batch: 777221

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			07/18/24 00:21	1

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

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

Lab Sample ID: LCS 500-777221/2
Matrix: Water
Analysis Batch: 777221

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	242		mg/L		97	80 - 120

Lab Sample ID: MB 500-777853/1
Matrix: Water
Analysis Batch: 777853

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			07/22/24 20:43	1

Lab Sample ID: LCS 500-777853/2
Matrix: Water
Analysis Batch: 777853

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	234		mg/L		94	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

Lab Sample ID: MB 500-780361/1
Matrix: Water
Analysis Batch: 780361

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			08/08/24 00:49	1

Lab Sample ID: LCS 500-780361/2
Matrix: Water
Analysis Batch: 780361

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	242		mg/L		97	80 - 120

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-778153/3
Matrix: Water
Analysis Batch: 778153

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			07/23/24 12:09	1

Lab Sample ID: MB 500-778153/31
Matrix: Water
Analysis Batch: 778153

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			07/23/24 14:20	1

Lab Sample ID: LCS 500-778153/32
Matrix: Water
Analysis Batch: 778153

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

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

Lab Sample ID: LCS 500-778153/4
Matrix: Water
Analysis Batch: 778153

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	9.52		mg/L		95	90 - 119		

Lab Sample ID: MB 500-780660/3
Matrix: Water
Analysis Batch: 780660

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			08/08/24 14:13	1

Lab Sample ID: LCS 500-780660/4
Matrix: Water
Analysis Batch: 780660

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	9.39		mg/L		94	90 - 119		

Lab Sample ID: 500-253560-1 MS
Matrix: Water
Analysis Batch: 780660

Client Sample ID: HEN_07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Fluoride	0.12		5.00	5.10		mg/L		100	75 - 125		

Lab Sample ID: 500-253560-1 MSD
Matrix: Water
Analysis Batch: 780660

Client Sample ID: HEN_07
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.12		5.00	5.11		mg/L		100	75 - 125	0	20

QC Sample Results

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

Job ID: 500-253560-5
SDG: HEN_257_803

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-781815/3
Matrix: Water
Analysis Batch: 781815

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			08/15/24 12:36	1

Lab Sample ID: MB 500-781815/31
Matrix: Water
Analysis Batch: 781815

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			08/15/24 14:48	1

Lab Sample ID: LCS 500-781815/32
Matrix: Water
Analysis Batch: 781815

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	9.38		mg/L		94	90 - 119

Lab Sample ID: LCS 500-781815/4
Matrix: Water
Analysis Batch: 781815

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	9.52		mg/L		95	90 - 119

Lab Chronicle

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_07
Date Collected: 07/15/24 15:20
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:26
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 13:32
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 14:33
Total/NA	Prep	7470A			778850	MJG	EET CHI	07/29/24 11:55 - 07/29/24 13:55 [1]
Total/NA	Analysis	7470A		1	779040	MJG	EET CHI	07/30/24 08:38
Total/NA	Analysis	300.0		5	779304	NMB	EET CHI	07/31/24 21:24
Total/NA	Analysis	SM 2320B		1	777696	SO	EET CHI	07/19/24 19:51
Total/NA	Analysis	SM 2540C		1	777221	CLB	EET CHI	07/18/24 00:54
Total/NA	Analysis	SM 4500 F C		1	780660	SO	EET CHI	08/08/24 14:33
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/15/24 15:20

Client Sample ID: HEN_12
Date Collected: 07/15/24 15:45
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778656	S1Z	EET CHI	07/26/24 15:25 - 07/26/24 21:25 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	779447	SJ	EET CHI	07/31/24 13:06
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 13:47
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 14:49
Total/NA	Prep	7470A			778850	MJG	EET CHI	07/29/24 11:55 - 07/29/24 13:55 [1]
Total/NA	Analysis	7470A		1	779040	MJG	EET CHI	07/30/24 08:40
Total/NA	Analysis	300.0		5	779304	NMB	EET CHI	07/31/24 21:55
Total/NA	Analysis	SM 2320B		1	777696	SO	EET CHI	07/19/24 20:01
Total/NA	Analysis	SM 2540C		1	777221	CLB	EET CHI	07/18/24 00:57
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 13:39
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/15/24 15:45

Client Sample ID: HEN_13
Date Collected: 07/15/24 16:35
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778656	S1Z	EET CHI	07/26/24 15:25 - 07/26/24 21:25 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	779447	SJ	EET CHI	07/31/24 13:37
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 13:50
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 14:51

Lab Chronicle

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_13
Date Collected: 07/15/24 16:35
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			778850	MJG	EET CHI	07/29/24 11:55 - 07/29/24 13:55 [1]
Total/NA	Analysis	7470A		1	779040	MJG	EET CHI	07/30/24 08:42
Total/NA	Analysis	300.0		5	779304	NMB	EET CHI	07/31/24 22:58
Total/NA	Analysis	SM 2320B		1	777696	SO	EET CHI	07/19/24 20:14
Total/NA	Analysis	SM 2540C		1	777221	CLB	EET CHI	07/18/24 00:59
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 13:44
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/15/24 16:35

Client Sample ID: HEN_08
Date Collected: 07/16/24 14:00
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:39
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 14:06
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 15:02
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778401	RN	EET CHI	07/25/24 11:01
Total/NA	Prep	7470A			779038	MJG	EET CHI	07/30/24 11:35 - 07/30/24 13:35 [1]
Total/NA	Analysis	7470A		1	779270	MJG	EET CHI	07/31/24 08:03
Total/NA	Analysis	300.0		10	779304	NMB	EET CHI	08/01/24 03:55
Total/NA	Analysis	SM 2320B		1	779286	LEG	EET CHI	07/30/24 18:16
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 21:06
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 14:30
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 14:00

Client Sample ID: HEN_08&D
Date Collected: 07/16/24 15:46
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778991	BDE	EET CHI	07/30/24 08:33 - 07/30/24 14:33 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	779318	SJ	EET CHI	07/31/24 13:43
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 14:08
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 15:05
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778401	RN	EET CHI	07/25/24 11:03
Total/NA	Prep	7470A			779038	MJG	EET CHI	07/30/24 11:35 - 07/30/24 13:35 [1]
Total/NA	Analysis	7470A		1	779270	MJG	EET CHI	07/31/24 08:05

Lab Chronicle

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_08&D
Date Collected: 07/16/24 15:46
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		10	779304	NMB	EET CHI	08/01/24 04:26
Total/NA	Analysis	SM 2320B		1	779286	LEG	EET CHI	07/30/24 18:26
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 21:08
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 14:34
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 15:46

Client Sample ID: HEN_16
Date Collected: 07/16/24 15:30
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778656	S1Z	EET CHI	07/26/24 15:25 - 07/26/24 21:25 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	779447	SJ	EET CHI	07/31/24 14:26
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 14:10
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 15:11
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778401	RN	EET CHI	07/25/24 11:05
Total/NA	Prep	7470A			779038	MJG	EET CHI	07/30/24 11:35 - 07/30/24 13:35 [1]
Total/NA	Analysis	7470A		1	779270	MJG	EET CHI	07/31/24 08:07
Total/NA	Analysis	300.0		5	779304	NMB	EET CHI	08/01/24 05:44
Total/NA	Analysis	SM 2320B		1	779286	LEG	EET CHI	07/30/24 18:46
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 21:14
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 14:44
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 15:30

Client Sample ID: HEN_16_FD
Date Collected: 07/16/24 15:40
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			778656	S1Z	EET CHI	07/26/24 15:25 - 07/26/24 21:25 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	779447	SJ	EET CHI	07/31/24 14:30
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778011	RN	EET CHI	07/23/24 14:12
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778290	RN	EET CHI	07/24/24 15:14
Total Recoverable	Prep	3005A			777840	S1Z	EET CHI	07/22/24 15:20 - 07/22/24 21:20 [1]
Total Recoverable	Analysis	6020B		1	778401	RN	EET CHI	07/25/24 11:07
Total/NA	Prep	7470A			779038	MJG	EET CHI	07/30/24 11:35 - 07/30/24 13:35 [1]
Total/NA	Analysis	7470A		1	779270	MJG	EET CHI	07/31/24 08:09
Total/NA	Analysis	300.0		5	779304	NMB	EET CHI	08/01/24 06:00
Total/NA	Analysis	SM 2320B		1	779286	LEG	EET CHI	07/30/24 19:13

Lab Chronicle

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_16_FD
Date Collected: 07/16/24 15:40
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	777853	CLB	EET CHI	07/22/24 21:16
Total/NA	Analysis	SM 4500 F C		1	778153	SO	EET CHI	07/23/24 14:59
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/16/24 15:40

Client Sample ID: HEN_17
Date Collected: 08/06/24 09:10
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			780356	S1Z	EET CHI	08/08/24 09:15 - 08/08/24 15:15 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781099	SJ	EET CHI	08/12/24 15:36
Total Recoverable	Prep	3005A			780445	BDE	EET CHI	08/08/24 09:16 - 08/08/24 15:16 ¹
Total Recoverable	Analysis	6020B		1	780867	RN	EET CHI	08/09/24 18:13
Total Recoverable	Prep	3005A			780445	BDE	EET CHI	08/08/24 09:16 - 08/08/24 15:16 ¹
Total Recoverable	Analysis	6020B		1	781097	RN	EET CHI	08/12/24 14:21
Total/NA	Prep	7470A			780506	MJG	EET CHI	08/08/24 12:00 - 08/08/24 14:00 ¹
Total/NA	Analysis	7470A		1	780728	MJG	EET CHI	08/09/24 06:37
Total/NA	Analysis	300.0		5	780474	LEG	EET CHI	08/08/24 14:15
Total/NA	Analysis	SM 2320B		1	781135	SO	EET CHI	08/12/24 17:52
Total/NA	Analysis	SM 2540C		1	780360	CLB	EET CHI	08/07/24 23:03
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 14:15
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	08/06/24 09:10

Client Sample ID: HEN_46
Date Collected: 08/06/24 09:55
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			780356	S1Z	EET CHI	08/08/24 09:15 - 08/08/24 15:15 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	781099	SJ	EET CHI	08/12/24 16:37
Total Recoverable	Prep	3005A			780445	BDE	EET CHI	08/08/24 09:16 - 08/08/24 15:16 ¹
Total Recoverable	Analysis	6020B		1	780867	RN	EET CHI	08/09/24 18:57
Total Recoverable	Prep	3005A			780445	BDE	EET CHI	08/08/24 09:16 - 08/08/24 15:16 ¹
Total Recoverable	Analysis	6020B		1	781097	RN	EET CHI	08/12/24 14:59
Total/NA	Prep	7470A			780506	MJG	EET CHI	08/08/24 12:00 - 08/08/24 14:00 ¹
Total/NA	Analysis	7470A		1	780728	MJG	EET CHI	08/09/24 07:07
Total/NA	Analysis	300.0		5	780474	LEG	EET CHI	08/08/24 18:10
Total/NA	Analysis	SM 2320B		1	781414	SO	EET CHI	08/13/24 15:06
Total/NA	Analysis	SM 2540C		1	780361	CLB	EET CHI	08/08/24 00:59
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 15:38
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	08/06/24 09:55

Lab Chronicle

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_47
Date Collected: 08/06/24 11:20
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			780356	S1Z	EET CHI	08/08/24 09:15 - 08/08/24 15:15 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	781099	SJ	EET CHI	08/12/24 16:41
Total Recoverable	Prep	3005A			780445	BDE	EET CHI	08/08/24 09:16 - 08/08/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	780867	RN	EET CHI	08/09/24 19:00
Total Recoverable	Prep	3005A			780445	BDE	EET CHI	08/08/24 09:16 - 08/08/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	781097	RN	EET CHI	08/12/24 15:01
Total/NA	Prep	7470A			780506	MJG	EET CHI	08/08/24 12:00 - 08/08/24 14:00 [1]
Total/NA	Analysis	7470A		1	780728	MJG	EET CHI	08/09/24 07:09
Total/NA	Analysis	300.0		5	780474	LEG	EET CHI	08/08/24 18:25
Total/NA	Analysis	SM 2320B		1	781414	SO	EET CHI	08/13/24 15:15
Total/NA	Analysis	SM 2540C		1	780361	CLB	EET CHI	08/08/24 01:01
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 15:42
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	08/06/24 11:20

Client Sample ID: HEN_52
Date Collected: 08/06/24 12:05
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			780356	S1Z	EET CHI	08/08/24 09:15 - 08/08/24 15:15 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	781099	SJ	EET CHI	08/12/24 17:16
Total Recoverable	Prep	3005A			780445	BDE	EET CHI	08/08/24 09:16 - 08/08/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	780867	RN	EET CHI	08/09/24 19:21
Total/NA	Prep	7470A			780506	MJG	EET CHI	08/08/24 12:00 - 08/08/24 14:00 [1]
Total/NA	Analysis	7470A		1	780728	MJG	EET CHI	08/09/24 07:26
Total/NA	Analysis	300.0		5	780474	LEG	EET CHI	08/08/24 20:15
Total/NA	Analysis	SM 2320B		1	782341	ER	EET CHI	08/19/24 16:53
Total/NA	Analysis	SM 2540C		1	780361	CLB	EET CHI	08/08/24 01:17
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 15:52
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	08/06/24 12:05

Client Sample ID: HEN_54
Date Collected: 08/06/24 10:40
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			780356	S1Z	EET CHI	08/08/24 09:15 - 08/08/24 15:15 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	781099	SJ	EET CHI	08/12/24 17:20
Total Recoverable	Prep	3005A			780445	BDE	EET CHI	08/08/24 09:16 - 08/08/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	780867	RN	EET CHI	08/09/24 19:23
Total/NA	Prep	7470A			780506	MJG	EET CHI	08/08/24 12:00 - 08/08/24 14:00 [1]
Total/NA	Analysis	7470A		1	780728	MJG	EET CHI	08/09/24 07:28
Total/NA	Analysis	300.0		5	780474	LEG	EET CHI	08/08/24 20:30
Total/NA	Analysis	SM 2320B		1	782341	ER	EET CHI	08/19/24 17:03

Lab Chronicle

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

Job ID: 500-253560-5
SDG: HEN_257_803

Client Sample ID: HEN_54
Date Collected: 08/06/24 10:40
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	780361	CLB	EET CHI	08/08/24 01:20
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 15:56
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	08/06/24 10:40

Client Sample ID: HEN_54_FD
Date Collected: 08/06/24 10:45
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			780356	S1Z	EET CHI	08/08/24 09:15 - 08/08/24 15:15 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	781099	SJ	EET CHI	08/12/24 17:24
Total Recoverable	Prep	3005A			780445	BDE	EET CHI	08/08/24 09:16 - 08/08/24 15:16 [1]
Total Recoverable	Analysis	6020B		1	780867	RN	EET CHI	08/09/24 19:26
Total/NA	Prep	7470A			780506	MJG	EET CHI	08/08/24 12:00 - 08/08/24 14:00 [1]
Total/NA	Analysis	7470A		1	780728	MJG	EET CHI	08/09/24 07:30
Total/NA	Analysis	300.0		5	780474	LEG	EET CHI	08/08/24 20:46
Total/NA	Analysis	SM 2320B		1	782341	ER	EET CHI	08/19/24 17:13
Total/NA	Analysis	SM 2540C		1	780361	CLB	EET CHI	08/08/24 01:22
Total/NA	Analysis	SM 4500 F C		1	781815	SO	EET CHI	08/15/24 16:01
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	08/06/24 10:45

Client Sample ID: HEN_55
Date Collected: 07/15/24 11:45
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-47
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/15/24 11:45

Client Sample ID: HEN_XSG01
Date Collected: 07/15/24 11:20
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-48
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/15/24 11:20

Client Sample ID: HEN_YSG_ILRIVER
Date Collected: 07/15/24 12:30
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-49
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	781194	DN	EET CHI	07/15/24 12:30

[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: HEN-24Q3

Job ID: 500-253560-5
SDG: HEN_257_803

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 CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3

CHAIN-OF-CUSTODY / Analytical Request Document

500-253560

HEN-257-803

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

Page 1 of 3

Section A Required Client Information		Section B Required Project Information.		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone:	(217) 753-8911 Fax	Project Name:	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

500-253560 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	~~HEN_02~~																							X			A		~~SHORT~~ HOLD - NO2
2	~~HEN_03R~~																	X				X		X		X	B		~~SHORT~~ HOLD - NO2
3	~~HEN_03R_FD~~																	X				X		X		X	B		~~SHORT~~ HOLD - NO2
4	~~HEN_05&DR~~																X				X						E		~~SHORT~~ HOLD - NO2
5	~~HEN_05IR~~																X				X						E		~~SHORT~~ HOLD - NO2
1	HEN_07			7-15-24	1520												X	X	X			X	X		X		X	B		SHORT HOLD - NO2
7	~~HEN_08~~																X	X	X		X	X	X		X		X	C		~~SHORT~~ HOLD - NO2
8	~~HEN_08&D~~																X	X	X		X	X	X		X		X	C		~~SHORT~~ HOLD - NO2
9	~~HEN_18~~																				X				X			D		~~SHORT~~ HOLD - NO2
2	HEN_12			7-15-24	1545														X		X		X				X	F		SHORT HOLD - NO2
3	HEN_13			7-15-24	1635														X		X		X				X	F		SHORT HOLD - NO2
12	~~HEN_16~~																X		X				X				X	G		
13	~~HEN_16_FD~~																X		X				X				X	G		
14	~~HEN_17~~																X		X				X				X	G		
15	~~HEN_18&D~~																	X				X			X	X	B		~~SHORT~~ HOLD - NO2
16	~~HEN_18#3~~																	X				X			X	X	B		~~SHORT~~ HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz AJE	7-15-24	1700	[signature] EETA	7/16/24	1105	
	[signature] EETA	7/16/24	1105	[signature]	7/16/24	1305	

4L-24C0

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 7-15-24

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

500-253500

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information		Section B Required Project Information.		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention	Brian Voelker
Address	13498 E 800th St	Copy To	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	~~HEN_21R~~																			X				X		X	X	H		MS/MSD
2	~~HEN_22~~																			X				X		X	X	H		
3	~~HEN_22&D~~																			X				X		X	X	H		
4	~~HEN_23~~																			X				X		X	X	H		
5	~~HEN_25~~																			X								J		~~DTW Only~~
6	~~HEN_26~~																			X								J		~~DTW Only~~
7	~~HEN_27~~																			X				X		X	X	H		
8	~~HEN_30~~																			X								J		~~DTW Only~~
9	~~HEN_31~~																			X								J		~~DTW Only~~
10	~~HEN_32~~																			X				X		X	X	H		
11	~~HEN_33~~																			X								J		~~DTW Only~~
12	~~HEN_34~~																			X				X		X	X	H		
13	~~HEN_35~~																			X				X		X	X	H		
14	~~HEN_35_FD~~																			X				X		X	X	H		
15	~~HEN_36~~																			X								J		~~DTW Only~~
16	~~HEN_40#S~~																X				X							E		~~SHORT HOLD - NO2~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz EEI+	7-15-24	1700	[signature] EEI+	7/16/24	11:05	
	[signature] EEI+	7/16/24	11:05	[signature]	7/16/24	1305	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER	Lorne Filewicz		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER	Lorne Filewicz	DATE Signed (MM/DD/YY) 7/15/24				

CHAIN-OF-CUSTODY / Analytical Request Document

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500-253560

HEN-25Q3003

Page 3 of 3

Section A Required Client Information.		Section B Required Project Information.		Section C Invoice Information.	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone:	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

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

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D
1	~~HEN_45#S~~																		X			X				X		B		SHORT HOLD - NO2
2	~~HEN_46~~																		X				X				X	G		
3	~~HEN_47~~																		X				X				X	G		
4	~~HEN_48R~~																X											I		
5	~~HEN_49~~																			X				X		X	X	H		MS/MSD
6	~~HEN_50~~																			X				X		X	X	H		
7	~~HEN_51~~																			X				X		X	X	H		
8	~~HEN_52~~																		X				X				X	G		
9	~~HEN_54~~																		X				X				X	G		
10	~~HEN_54_FD~~																		X				X				X	G		
11	~~HEN_55~~																		X				X					J		DTW Only
12	HEN_YSG_ILRIVER																X	X	X	X	X	X	X	X	X	X		J		DTW Only
13	~~HEN_XSG01~~																		X				X					J		DTW Only
14	~~FB~~																				X	X			X		X	C		SHORT HOLD - NO2
15	~~TB1~~																								X			A		BTEX Only
16	~~TB2~~																								X			A		BTEX Only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
HEN-24Q3 Rev 1	Lorne Filewicz	7-15-24	1700	EETA	7/16/24	11:05				
	EETA	7/19/24	13:05		7/16/24	1305				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne T. Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 7-15-24

500-253560

CHAIN-OF-CUSTODY / Analytical Request Document

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500-253560 COC

Page 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	HEN_02			7-16-24	0825																			X			A		SHORT HOLD - NO2
2	HEN_03R			7-16-24	0953													X				X			X		X	B		SHORT HOLD - NO2
3	HEN_03R_FD			7-16-24	0953													X				X			X		X	B		SHORT HOLD - NO2
4	HEN_05&DR			7-16-24	1215												X				X						E		SHORT HOLD - NO2
5	HEN_05IR			7-16-24	1120												X				X						E		SHORT HOLD - NO2
~~6~~	~~HEN_07~~																~~X~~	~~X~~	~~X~~			~~X~~	~~X~~		~~X~~		~~X~~	~~B~~		~~SHORT HOLD - NO2~~
7	HEN_08			7-16-24	1400												X	X	X		X	X	X		X		X	C		SHORT HOLD - NO2
8	HEN_08&D			7-16-24	1546												X	X	X		X	X	X		X		X	C		SHORT HOLD - NO2
9	HEN_10			7-16-24	0945												X				X				X			D		SHORT HOLD - NO2
~~10~~	~~HEN_12~~																		~~X~~		~~X~~		~~X~~				~~X~~	~~F~~		~~SHORT HOLD - NO2~~
~~11~~	~~HEN_13~~																		~~X~~		~~X~~		~~X~~				~~X~~	~~F~~		~~SHORT HOLD - NO2~~
12	HEN_16			7-16-24	1530												X		X				X				X	G		
13	HEN_16_FD			7-16-24	1540												X		X				X				X	G		
~~14~~	~~HEN_17~~																~~X~~		~~X~~				~~X~~				~~X~~	~~G~~		
15	HEN_18&D			7-16-24	1317													X				X			X		X	B		SHORT HOLD - NO2
16	HEN_18#S			7-16-24	1206													X				X			X		X	B		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	7/16/24	1546	[illegible]	7/17/24	0940	

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	Lorne Filewicz					
SIGNATURE of SAMPLER	Lorne Filewicz	DATE Signed (MM/DD/YY) 7/16/24				

-0.1 → 0.2 1.0 → 0.9 3.2 → 3.1, 1.0 → 0.9 0.9 → 0.8, 1.7 → 1.6

500 - 253500 HEN-253500

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information.		Section B Required Project Information.		Section C Invoice Information.	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention.	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	~~HEN_21R~~																			X				X		X	X	H		~~MS/MSD~~
2	~~HEN_22~~																			X				X		X	X	H		
3	~~HEN_22&D~~																			X				X		X	X	H		
4	~~HEN_23~~																			X				X		X	X	H		
5	~~HEN_25~~																			X								J		~~DTW Only~~
6	~~HEN_26~~																			X								J		~~DTW Only~~
7	~~HEN_27~~																			X				X		X	X	H		
8	~~HEN_30~~																			X								J		~~DTW Only~~
9	~~HEN_31~~																			X								J		DTW Only
10	~~HEN_32~~																			X				X		X	X	H		
11	~~HEN_33~~																			X								J		~~DTW Only~~
12	~~HEN_34~~																			X				X		X	X	H		
13	~~HEN_35~~																			X				X		X	X	H		
14	~~HEN_35_FD~~																			X				X		X	X	H		
15	~~HEN_36~~																			X								J		~~DTW Only~~
16	HEN_40#S			7/16/24	1443												X				X							E		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	7/16/24	1540		7/17/24	0940	

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	Lorne Filewicz					
SIGNATURE of SAMPLER	Lorne Filewicz	DATE Signed (MM/DD/YY) 7 16 24				

500-253540

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 3 of 3

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax:
Requested Due Date/TAT	10 day

Section B Required Project Information.

Report To:	Brian Voelker
Copy To:	Sam Davies samantha davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_45#S			7-16-24	0842													X				X			X		X	B		SHORT HOLD - NO2
2	HEN_46																		X				X				X	G		
3	HEN_47																		X				X				X	G		
4	HEN_48R																X											I		
5	HEN_49																			X				X		X	X	H		MS/MSD
6	HEN_50																			X				X		X	X	H		
7	HEN_51																			X				X		X	X	H		
8	HEN_52																		X				X				X	G		
9	HEN_54																		X				X				X	G		
10	HEN_54_FD																		X				X				X	G		
11	HEN_55																		X				X					J		DTW Only
12	HEN_YSG_ILRIVER																X	X	X	X	X	X	X	X	X	X		J		DTW Only
13	HEN_XSG01																		X				X					J		DTW Only
14	FB																				X	X			X		X	C		SHORT HOLD - NO2
15	TB1			07-16-24	00:00																				X			A		BTEX Only
16	TB2			dbn 082224																					X			A		BTEX Only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Fiberwicz	7/16/24	1540		7/17/24	0940	

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	Lorne Fiberwicz					
SIGNATURE of SAMPLER	Lorne Fiberwicz	DATE Signed (MM/DD/YY) 7 16 24				

500-253560

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 3

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name:	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference.	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

500-253560 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
																Requested Analysis Filtered (Y/N)														
1	HEN_02																								X			A		SHORT HOLD - NO2
2	HEN_03R																	X				X			X		X	B		SHORT HOLD - NO2
3	HEN_03R_FD																	X				X			X		X	B		SHORT HOLD - NO2
4	HEN_05&DR																X				X							E		SHORT HOLD - NO2
5	HEN_05IR																X				X							E		SHORT HOLD - NO2
6	HEN_07																X	X	X			X	X		X		X	B		SHORT HOLD - NO2
7	HEN_08																X	X	X		X	X	X		X		X	C		SHORT HOLD - NO2
8	HEN_08&D																X	X	X		X	X	X		X		X	C		SHORT HOLD - NO2
9	HEN_10																X								X			D		SHORT HOLD - NO2
10	HEN_12																X		X		X		X				X	F		SHORT HOLD - NO2
11	HEN_13																X		X		X		X				X	F		SHORT HOLD - NO2
12	HEN_16																X		X				X				X	G		
13	HEN_16_FD																X		X				X				X	G		
14	HEN_17																X		X				X				X	G		
15	HEN_18&D																	X			X				X		X	B		SHORT HOLD - NO2
16	HEN_18#S																	X			X				X		X	B		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	7-18-24	1300	Alex Koch	7/18/24	1300	

6.1 → 5.7

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz

DATE Signed (MM/DD/YY): 7.18.24

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

500-253900

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 2 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To.	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference.	
Phone:	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	~~HEN_21R~~																			X				X		X	X	H		MS/MSD
2	~~HEN_22~~																			X				X		X	X	H		
3	~~HEN_22&D~~																			X				X		X	X	H		
19 4	HEN_23			7-18-24	0945															X				X		X	X	H		
5	~~HEN_25~~																			X								J		DTW Only
6	~~HEN_26~~																			X								J		DTW Only
7	~~HEN_27~~																			X				X		X	X	H		
8	~~HEN_30~~																			X								J		DTW Only
9	~~HEN_31~~																			X								J		DTW Only
10	~~HEN_32~~																			X				X		X	X	H		
11	~~HEN_33~~																			X								J		DTW Only
12	~~HEN_34~~																			X				X		X	X	H		
13	~~HEN_35~~																			X				X		X	X	H		
14	~~HEN_35_FD~~																			X				X		X	X	H		
15	~~HEN_36~~																			X								J		DTW Only
16	~~HEN_40#S~~																X				X							E		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Fitzwater	7-19-24	1300	[illegible]	7/18/24	1300	

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	Sam Fitzwater					
SIGNATURE of SAMPLER	Lorne Fitzwater	DATE Signed (MM/DD/YY) 7/18/24				

$500-25360 HEN-257-8036

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 3 of 3

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To:	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax.
Requested Due Date/TAT	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_45#S																	X				X			X		X	B		SHORT HOLD - NO2
2	HEN_46																		X				X				X	G		
3	HEN_47																		X				X				X	G		
20 4	HEN_48R			7-18-24	0905												X											I		
5	HEN_49																			X				X		X	X	H		MS/MSD
6	HEN_50																			X				X		X	X	H		
21 7	HEN_51			7-18-24	1025															X				X		X	X	H		
8	HEN_52																		X				X				X	G		
9	HEN_54																		X				X				X	G		
10	HEN_54_FD																		X				X				X	G		
11	HEN_55																		X				X					J		DTW Only
12	HEN_YSG_ILRIVER																X	X	X	X	X	X	X	X	X	X		J		DTW Only
13	HEN_XSG01																		X				X					J		DTW Only
22 14	FB			7-18-24	0800																X	X			X		X	C		SHORT HOLD - NO2
15	TB1			07-18-24	00:00																				X			A		BTEX Only
23 16	TB2			dbn 082224																					X			A		BTEX Only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Fitzwater	7-18-24	1300	[illegible]	7/18/24	1300	

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER	Lorne Fitzwater			
SIGNATURE of SAMPLER	Lorne Fitzwater	DATE Signed (MM/DD/YY)	7-18-24	

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

500-253560

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 3

Section A Required Client Information.

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To.	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax.
Requested Due Date/TAT	10 day

Section B Required Project Information

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information.

Attention.	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference	
Project Manager:	
Profile #:	

500-253560 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	HEN_02																								X			A		SHORT HOLD - NO2
2	HEN_03R																		X				X			X		X	B		SHORT HOLD - NO2
3	~~HEN_03R_FD~~																		X				X			X		X	B		SHORT HOLD - NO2
4	~~HEN_05&DR~~																	X				X							E		SHORT HOLD - NO2
5	~~HEN_05IR~~																	X				X							E		SHORT HOLD - NO2
6	~~HEN_07~~																	X	X	X			X	X		X		X	B		SHORT HOLD - NO2
7	~~HEN_08~~																	X	X	X		X	X	X		X		X	C		SHORT HOLD - NO2
8	~~HEN_08&D~~																	X	X	X		X	X	X		X		X	C		SHORT HOLD - NO2
9	~~HEN_10~~																					X				X			D		SHORT HOLD - NO2
10	~~HEN_12~~																			X		X		X				X	F		SHORT HOLD - NO2
11	~~HEN_13~~																			X		X		X				X	F		SHORT HOLD - NO2
12	~~HEN_16~~																	X		X				X				X	G		
13	~~HEN_16_FD~~																	X		X				X				X	G		
14	HEN_17			8-6-24	0910													X		X				X				X	G		
15	~~HEN_18&D~~																		X				X			X		X	B		SHORT HOLD - NO2
16	~~HEN_18#S~~																		X				X			X		X	B		SHORT HOLD - NO2

24

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	8-7-24	0905	[signature]	8/7/24	0905	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 8-6-24

58→57, 1.8→1.7, 58→57.2
62→59, 4.3→4.2

~~58→57~~

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

CHAIN-OF-CUSTODY / Analytical Request Document

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500-265560 HEN-357808

Page 2 of 3

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax:
Requested Due Date/TAT	10 day

Section B Required Project Information.

Report To:	Brian Voelker
Copy To.	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information.

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D
25 1	HEN_21R			8-6-24	1315																X				X		X	X	H		MS/MSD
26 2	HEN_22			8-6-24	1550																X				X		X	X	H		
27 3	HEN_22&D			8-6-24	1515																X				X		X	X	H		
4	HEN_23																				X				X		X	X	H		
5	~~HEN_25~~																				X								J		DTW Only
6	~~HEN_26~~																				X								J		DTW Only
28 7	HEN_27			8-6-24	1045																X				X		X	X	H		
8	~~HEN_30~~																				X								J		DTW Only
9	~~HEN_31~~																				X								J		DTW Only
29 10	HEN_32			8-6-24	1000																X				X		X	X	H		
11	~~HEN_33~~																				X								J		DTW Only
30 12	HEN_34			8-6-24	0910																X				X		X	X	H		
31 13	HEN_35			8-6-24	1135																X				X		X	X	H		
32 14	HEN_35_FD			8-6-24	1135																X				X		X	X	H		
15	~~HEN_36~~																				X								J		DTW Only
16	~~HEN_40#S~~																	X				X							E		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	8-7-24	0905		8/7/24	0905	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 8-7-24

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

500-223560

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 3 of 3

Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olte	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	Requested Analysis Filtered (Y/N)																													
1	~~HEN_45#S~~																		X				X			X		X	B		SHORT HOLD - NO2
33 2	HEN_46			8-6-24	0955															X				X				X	G		
34 3	HEN_47			8-6-24	1120															X				X				X	G		
4	~~HEN_48R~~																X												I		
35 5	HEN_49			8-6-24	1420																X				X		X	X	H		MS/MSD
36 6	HEN_50			8-6-24	1535																X				X		X	X	H		
7	~~HEN_51~~																				X				X		X	X	H		
37 8	HEN_52			8-6-24	1205															X				X				X	G		
38 9	HEN_54			8-6-24	1040															X				X				X	G		
39 10	HEN_54_FD			8-6-24	1045															X				X				X	G		
11	~~HEN_55~~																			X				X					J		DTW Only
12	~~HEN_YSG_ILRIVER~~																X	X	X	X	X	X	X	X	X	X	X		J		DTW Only
13	~~HEN_XSG01~~																			X				X					J		DTW Only
40 14	~~HEN_FB~~			08-06-24 dbn 082224	00:00																X				X		X	X	H		
15	~~HEN_TB1~~																									X			A		BTEX Only
16	~~HEN_TB2~~																									X			A		BTEX Only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	8-7-24	0905	[signature]	8/7/24	0905	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 8-7-24

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

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-253560-5
SDG Number: HEN_257_803

Login Number: 253560
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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	4.0,-0.2,0.9,3.1,0.9,0.8,1.6,5.7,11.8,12.7,11.8,9.1,11.3,5.7,1.7,5.7,5.9,4.2
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").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 0805
Field Personnel: Lorne F. Finish Date: Same Time:

WELL INFORMATION

Well ID: 02
Casing ID: 2" (inches)

EVENT TYPE

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

YSI SERIAL NO
24E100326

WATER QUALITY INDICATOR PARAMETERS (continued) Heron # 120822020541FR

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/-3%~~ +-3%	pH (SU) +/- 0.01	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	0805		44.88								Clear
purge	5	0810				14.4	7.05	984	7.05	3.17	167.8	
	10	0815		44.97		14.1	7.05	954	7.05	2.40	169.9	
	15	0820				14.1	7.04	939	7.04	1.60	171.0	
*	20	0825		44.97		14.2	7.02	938	6.99	1.51	171.5	
	25											
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

ID 02 7-16-24 0825

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 0920
Field Personnel: G. Assaily Finish Date: 07/16/24 Time: 1050

WELL INFORMATION

Well ID: Hen-03R
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO
24A101225

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/- 10%~~ +/- 0.1	pH (SU) ~~+/- 0.01~~ +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) ~~+/- 10%~~ +/- 10	Visual Clarity/Odor
pre	0	0925	~~0.04~~	34.91	—	—	—	—	—	—	—	—
purge	5	0927	0	34.90	—	18.3	~~18.4~~ 7.19	0.820	4.80	7.88	-14.4	Clear
↓	10	0932	0.5	34.90	—	18.2	7.19	0.781	0.30	12.03	51.5	↓
↓	15	0937	1	34.90	—	18.2	7.20	0.787	0.20	9.16	62.0	↓
↓	20	0942	2	34.90	—	18.3	7.21	0.792	0.24	~~8.70~~	~~71.8~~	↓
↓	25	0947	3	34.90	—	18.3	7.21	0.797	0.27	~~8.72~~	77.6	↓
↓	30	0952	4	34.90	—	18.2	7.21	0.792	0.20	4.88	81.0	↓
Final	35	0953										
	40											
	45											
	50											
	55											
	60											

GA

NOTES (continued)

Sample ID, date, & time:

Sample ID: Hen-03R

Sampled @ 0953 on 07/16/24

Duplicate @ 0953 on 07/16/24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 1045
Field Personnel: Lorne Finish Date: SAme Time: 1120

WELL INFORMATION

Well ID: 05R
Casing ID: 2" (inches)

EVENT TYPE
Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling
Other (specify): Low Flow

YSI SERIAL NO
24E100326
Heron 12DF220205 4FT

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1045		41.11								clear
purge	5	1050				20.4	7.64	918	1.19	9.70	160.7	
	10	1055		41.11		20.5	7.63	918	0.74	7.70	160.7	
	15	1100				20.3	7.63	915	0.67	7.01	159.3	
*	20	1105		41.11		20.3	7.63	916	0.61	5.86	159.2	
	25	1110				20.3	7.63	915	0.60	4.79	158.6	
	30	1115		41.15		20.3	7.63	916	0.61	3.90	158.5	
	35	1120		41.15		20.4	7.63	917	0.60	3.35	158.5	
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

ID 05R 7-16-24 Time 1120

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 1140

Field Personnel: Lorne Finish Date: Same Time: 1215

WELL INFORMATION

Well ID: 5 ~~BDR~~

Casing ID: 2" (inches)

EVENT TYPE

Well Development

Well Volume Approach Sampling

(Low-Flow / Low Stress Sampling)

Other (Specify): Low Flow

YSI SERIAL NO

24E100 326

Heron 12DF2202054 FR

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1145		41.11								Clear
purge	5	1150				20.1	7.43	914	3.34	3.36	159.4	
	10	1155		41.11		20.0	7.41	914	.85	6.60	159.3	
	15	1200				19.9	7.41	913	.79	6.22	158.5	
*	20	1205		41.11		19.9	7.41	913	.78	6.65	157.8	
	25	1210				19.9	7.41	913	.77	7.49	156.8	
	30	1215		41.11		19.9	7.41	913	.76	7.82	156.1	
	35	1220										
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

7-16-24 Time 1215 ID 5 ~~BDR~~

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7 / 15 /2024 Time: 1430
Field Personnel: Lorne F Finish Date: Same Time: 1520

WELL INFORMATION

Well ID: 07
Casing ID: 2 "c (inches)

EVENT TYPE
Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling
Other (Specify): ~~Low Flow~~

YSI SERIAL NO
24E100326

WATER QUALITY INDICATOR PARAMETERS (continued)

Heron # 12DF220205 4FR

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/- 10%~~ 3%	pH (SU) +/- 0.01	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1430		67.72								
purge	5	1450				16.4	6.67	1.419	7.35	1.66	182.2	Clear
	10	1455		67.77		16.8	6.67	1.520	7.26	1.99	182.7	
	15	1500				16.9	6.66	1.622	7.04	1.67	189.6	
	20	1505		67.77		16.5	6.65	1.655	6.85	2.00	191.9	
	25	1510				16.4	6.65	1.659	6.84	2.47	191.9	
	30	1515		67.77		16.4	6.65	1.662	6.82	2.66	192.1	
	35	1520										
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

Sample @ 1520

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 1330

Field Personnel: Lorne Finish Date: Same Time: 1400

WELL INFORMATION

Well ID: 08

Casing ID: 2" (inches)

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling

Other (Specify): Low Flow

YSI SERIAL NO 24E100 3246

WATER QUALITY INDICATOR PARAMETERS (continued) Meter on 12DF22 02054 FR

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1330		53.62								Clear
purge	5	1335				15.0	6.65	1608	3.77	1.48	188.8	
	10	1340		53.61		17.1	6.67	1605	2.71	1.35	188.9	
	15	1345				17.8	6.66	1617	2.31	1.30	189.6	
*	20	1350		53.61		18.2	6.65	1602	2.22	1.37	189.6	
	25	1355				18.1	6.65	1597	2.22	1.70	189.6	
	30	1400		53.61		18.1	6.65	1597	2.21	1.78	189.4	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

ID 08 7-16-24 Time 1400

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 1510
Field Personnel: G. Arcalino Finish Date: 07/16/2024 Time: 1558

WELL INFORMATION

Well ID: Hen-08D
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO
24A101225

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/- 10%~~ +/- 0.1	pH (SU) ~~+/- 0.04~~ +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) ~~+/- 10%~~ +/- 0.2	Turbidity (NTU) +/- 10%	ORP (mV) ~~+/- 10%~~ +/- 10	Visual Clarity/Odor
pre	0	1515	—	54.09	—	—	—	—	—	—	—	GA
purge	5	1520	0.5>	54.05	—	15.8	6.96	1.862	3.10	4.62	190.0	Cloudy
↓	10	1525	0.5		—	15.4	6.68	1.834	0.52	4.83	197.7	Clear
↓	15	1530	↓	54.09	—	15.5	6.68	1.838	0.48	4.67	197.8	↓
↓	20	1535	1.5	54.08	—	15.4	6.69	1.835	0.22	4.64	197.1	↓
↓	25	1540	1.5	54.06	—	15.3	6.69	1.826	0.18	4.56	196.9	↓
↓	30	1545	2.5	54.08		15.4	6.69	1.824	0.28	4.91	195.6	↓
Final	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time: Sample ID: ~~HEN_08D on HEN_08D~~ Hen_08&D
Sampled at 1546 on 07/16/24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 0915

Field Personnel: Lorne Finish Date: Same Time: 0945

WELL INFORMATION

Well ID: 10

Casing ID: ~~6~~ 2" inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

Low-Flow / Low Stress Sampling

Other (Specify): ~~Low Flow~~

YSI SERIAL NO 24E100326

12DF220205FFr Heron

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- ~~10%~~ 3%	pH (SU) +/- 0.01	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	0915		50.67								Clear
purge	5	0920				20.0	7.14	890	2.67	0.92	176.7	
	10	0925		50.65		20.2	7.12	893	1.17	0.72	176.9	
	15	0930				20.3	7.12	897	0.99	0.75	174.3	
	20	0935		50.66		20.4	7.11	895	0.96	0.96	172.4	
	25	0940				20.3	7.11	894	0.94	0.64	171.7	
	30	0945		50.66		20.3	7.11	894	0.93	0.81	170.8	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

ID-10 7-16-24 Time 0945

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/15/2024 Time: 1500
Field Personnel: A. Beckett, G. Asiatico Finish Date: 7/15/24 Time: 1600

WELL INFORMATION

Well ID: HEN-12
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO
24A101225

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/- 10%~~ 3% or 0.1	pH (SU) ~~+/- 0.01~~ 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) ~~+/- 10%~~ +/- 10	Visual Clarity/Odor
pre	0	1505	—	51.4	—							
purge	5	1510	0.5>	51.39	0.01	18.4	7.60	710	5.47	5.27	46.4	Clear
↓	10	1515	0.5	51.38	0.01	17.4	7.34	677	2.92	5.64	79.6	Clear
↓	15	1520	1	51.38	0	17.3	7.33	676	2.85	5.22	~~88.4~~ 88.4	Clear
↓	20	1525	1.5	51.4	0.02	17.3	7.31	676	2.82	4.89	95.3	Clear
↓	25	1530	2.5	51.4	0	17.9	7.32	677	2.84	4.57	101.0	↓
↓	30	1535	3.0	51.4	0	18.0	7.32	678	2.81	4.02	106.5	↓
↓	35	1540	3.0	51.4	0	18.0	7.32	678	2.79	4.08	~~106~~ 108.5	↓
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:
Sampled ~~at~~: 1545 on 7/15/24
Sample ID: Hen-12

*At 1525, water level below pump.

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/15/2024 Time: 1600
Field Personnel: G. Assalley Finish Date: 07/15/24 Time: 1640

WELL INFORMATION

Well ID: Hen-13
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO
24AB1225

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/- 10%~~ 0.1	pH (SU) ~~+/- 0.01~~ 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) ~~+/- 10%~~ 10	Visual Clarity/Odor
pre	0	1610		51.36	0.01	~~18.1~~ GA	~~7.34~~ GA	~~807~~ GA	~~7.51~~ GA	~~9.64~~ GA	~~139.3~~ GA	clear
purge	5	1612	1	~~51.37~~ GA 51.37	0.01	18.1	7.34	807	7.51	9.64	139.3	clear
↓	10	1617		51.38	0.01	17.8	7.35	695	2.97	4.71	139.6	↓
↓	15	1622	2	51.38	0	17.7	7.35	685	2.44	4.19	138.9	↓
↓	20	1627				17.7	7.35	684	2.38	4.23	138.0	↓
↓	25	1633	3	51.35		17.6	7.35	684	2.37	4.00	139.1	↓
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time: @ 1635 07/15/24

Sample ID: Hen_13

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 1455
Field Personnel: Lorne Finish Date: Same Time:

WELL INFORMATION

Well ID: 16
Casing ID: 2" inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling
Other (specify): Low Flow

YSI SERIAL NO
24E100326
Heron IZDF2202054FR

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1455		54.22								Clear
purge	5	1500				21.7	7.25	818	2.06	1.45	216.4	
	10	1505		54.22		21.9	7.27	822	.68	1.30	209.5	
	15	1510				22.0	7.27	822	.53	1.13	205.5	
*	20	1515		54.22		21.9	7.27	823	.51	1.17	201.0	
	25	1520				22.0	7.27	823	.50	1.15	195.9	
	30	1525		54.22		22.0	7.27	823	.48	1.13	193.5	
	35	1530		54.22		22.1	7.27	823	.48	1.12	192.9	
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

ID 16 7-16-24 Time 1530

Dupe At 1540

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 8 /6 /2024 Time: 0845
Field Personnel: Lorne F. Finish Date: Same Time: 0910

WELL INFORMATION

Well ID: 17
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow
YSI SERIAL NO: 24A101225
Heron Serial NO: 0102172X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	0856		56.12		21.9	7.23	.789	6.89	.88	65.6	Clear
Purge	5	0855		56.12		22.5	7.24	.789	6.91	1.43	78.7	↓
	10	0900		56.12		22.9	7.24	.789	6.89	1.49	80.3	
	15	0905		56.12		23.0	7.24	.789	6.82	1.41	84.2	
*******	20	0910		56.12		23.0	7.24	.789	6.79	1.43	88.7	↓
Final	25	0915	2 GAL									
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 17
Sampled @ 0910 on 8/6/-24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 1240
Field Personnel: G. Asselin Finish Date: 07/16/24 Time: 1337

WELL INFORMATION

Well ID: Hen_18D
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO 24A101225

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/- 10%~~ +/- 0.1	pH (SU) ~~+/- 0.01~~ +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) ~~+/- 10%~~ +/- 10	Visual Clarity/Odor
pre	0	1241	—	40.45	—	—	—	—	—	—	—	— GA
purge	5	1245	—	40.46	—	18.1	7.29	0.784	3.23	6.17	162.7	Clear
↓	10	1250	1	40.50	—	18.9	7.19	0.786	2.01	9.53	167.5	↓
↓	15	1255	1.5	40.55	—	18.4	7.18	0.784	0.53	8.02	166.3	↓
↓	20	1300	2	40.57	—	17.8	7.17	0.788	0.45	8.94	164.4	↓
↓	25	1305	2	40.60	—	18.4	7.18	0.787	0.64	9.90	162.5	↓
↓	30	1310	2.5		—	18.4	7.17	0.783	0.69	8.92	160.4	↓
↓	35	1315	3		—	18.5	7.17	0.785	0.66	8.88	159.4	↓
Final	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time: Sample ID: Hen_18D
Sampled at @ 1317

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 1144
Field Personnel: George Assalley Finish Date: 09/16/2024 Time: 1231

WELL INFORMATION

Well ID: Hen-185
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO
24A101225

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/- 10%~~ +/- 0.1	pH (SU) ~~+/- 0.01~~ +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen ~~+/- 0.2~~ (mg/L) or +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) ~~+/- 10%~~ +/- 10	Visual Clarity/Odor
pre	0	1144	—	40.39	—	—	—	—	—	—	—	— GA
purge	5	1145	0		—	19.3	7.45	0.903	86.7	3.67	139.0	clear
↓	10	1150	0.5		—	18.0	7.36	0.823	0.74	7.65	148.1	↓
↓	15	1155	1	40.41	—	17.9	7.37	0.811	0.32	5.38	148.1	↓
↓	20	1200	1.5		—	17.9	7.37	0.810	0.24	5.12	148.2	↓
↓	25	1205	2			17.9	7.37	0.811	0.21	4.50	147.2	↓
Final	30	1234										
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

~~Sample ID: Hen-185~~ GA Sampled @ 1206
Sample ID: Hen-1875

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 8/6/2024 Time: 1240
Field Personnel: G. Assalley Finish Date: 8/6/24 Time: 1340

WELL INFORMATION

Well ID: -21R
Casing ID: Inches 2

EVENT TYPE

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

YSI SERIAL NO: 21231 8X
Heron Serial NO: 4116738X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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
												GR
Pre	0	1247	—	6.11	—	—	—	—	—	—	—	—
Purge	5	1250	0.5	6.22	—	16.8	7.46	0.967	2.92	26.64	-94.3	Clear
|	10	1255	0.5	6.34	—	14.3	~~6.72~~ QA 7.42	0.973	2.93	31.41	-126.0	" "
|	15	1300	1	6.25	—	14.0	7.42	0.969	3.77	23.62	-136.2	" "
*******	20	1305	2	6.21	—	14.0	7.42	0.970	3.86	21.89	-137.4	" "
↓	25	1310	2.5	6.20	—	13.9	7.42	0.969	3.77	21.59	-139.5	" "
Final	30	1335	4	6.25	—	—	—	—	—	—	—	—
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: -21R, -21R MS -21R MSD
Sampled @1315 on 8/6/24

ABBREVIATIONS

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

MS/MSD

21R @1315
21R_MS
21R_MS_MSD

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 8/6/2024 Time: 1525
Field Personnel: G. Assallum Finish Date: 8/6/24 Time: 1600

WELL INFORMATION

Well ID: -22
Casing ID: Inches 2'

EVENT TYPE

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

YSI SERIAL NO: 12[illegible]3X
Heron Serial NO: U1167[illegible]X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1525	—	18.58	—	—	—	—	—	—	—	—
Purge	5	1530	0.5	18.64	—	16.6	7.66	0.875	4.30	0.77	75.1	Clear
|	10	1535	0.5	18.71	—	15.9	7.52	0.871	3.18	1.36	63.1	" "
|	15	1540	1	18.69	—	15.9	7.53	0.869	3.19	1.09	56.4	" "
******	20	1545	2	18.63	—	15.9	7.53	0.869	3.16	1.17	55.4	" "
Final	25	1552		18.58	—	—	—	—	—	—	—	—
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: -22
Sampled @ on 8/06/2024

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 Celcius

@ 1550

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 8/6/2024 Time: 1444
Field Personnel: G. Assally Finish Date: 8/6/24 Time: 1525

WELL INFORMATION

Well ID: 22D
Casing ID: 2" Inches

EVENT TYPE

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

YSI SERIAL NO: 22727187
Heron Serial NO: H1167387

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1445	—	20.05	—	—	—	—	—	—	—	—
Purge	5	1450	0.5 >	20.36	—	17.6	7.31	0.935	3.70	4.65	92.3	Clear
|	10	1455	0.5	19.72	—	16.5	7.21	0.947	1.57	3.99	-56.3	" "
|	15	1500	↓	19.43	—	16.5	7.21	0.951	1.01	3.716	-77.5	" "
********	20	1505	1.5	19.34	—	16.5	7.22	0.950	1.07	3.56	-84.2	" "
↓	25	1510	2	19.35	—	16.5	7.22	0.951	0.94	3.24	-82.2	" "
Final	30	1522		19.40								
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: -220
Sampled @ 1515 on 8/6/24

ABBREVIATIONS

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

(a) 1515

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/18/2024 Time: 0840
Field Personnel: G. Assoll, EX Finish Date: 07/18/24 Time: 0955

WELL INFORMATION

Well ID: Hen-23
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO
U122318X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/- 10%~~ +/- 0.1	pH (SU) ~~+/- 0.01~~ +/- 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) ~~+/- 10%~~ +/- 10 mV	Visual Clarity/Odor
pre	0	0841	—	16.51	—	—	—	—	—	—	—	—
purge	5	0845	0.5	16.64	—	13.6	7.31	1.077	1.74	10.54	-52.8	Clear
↓	10	0850	0.5	16.72	—	13.5	7.47	1.076	0.25	9.42	-97.7	↓
↓	15	0855	1	16.80	—	13.5	7.45	1.072	0.21	10.39	-100.3	↓
↓	20	0900	2	16.85	—	13.5	7.48	1.069	0.18	12.60	-99.4	↓
↓	25	0905	3	16.79	—	13.5	7.49	1.068	0.16	19.96	-95.0	↓
↓	30	0910	4	16.72	—	13.6	7.50	1.067	0.16	19.66	-91.3	↓
↓	35	0915	4.5	16.77	—	13.6	7.51	1.067	0.15	16.58	-87.0	↓
↓	40	0920	5	16.80	—	13.6	7.51	1.067	0.14	11.48	-85.3	↓
↓	45	0925	5.5	16.82	—	13.6	7.51	1.066	0.14	12.54	-82.9	↓
↓	50	0930	6.5	16.68	—	13.6	7.51	1.066	0.14	13.8	-80.4	↓
↓	55	0935	7	16.72	—	13.6	7.51	1.065	0.13	15.49	-78.6	↓
↓	60	0940	7.5	16.84	—	13.6	7.51	1.066	0.13	16.96	-78.1	↓

GA

NOTES (continued)

Sample ID, date, & time: Sample ID: Hen_23
Sampled at 0945 on 7/18/24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 8/6/2024 Time: 1018
Field Personnel: G. Assalian Finish Date: 8/6/2024 Time: 1055

WELL INFORMATION

Well ID: 27
Casing ID: 2" Inches

EVENT TYPE

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

YSI SERIAL NO: 17123180
Heron Serial NO: 116738 X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1020	0	4.46	—	—	—	—	—	—	—	—
Purge	5	1025	0.5>	4.43	—	12.9	7.12	0.950	0.43	10.15	1.9	Clear
	10	1030	1	4.41	—	12.8	7.11	0.950	0.23	7.89	-6.7	" "
	15	1035	1.5	4.43	—	12.8	7.11	0.950	0.16	5.75	-11.3	" "
******	20	1040	3.	~~4.34~~ 4.42	—	12.7	7.11	0.944	0.11	6.57	-14.7	" "
Final	25	1045	3.5	4.54	—	—	—	—	—	—	—	—
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: -27
Sampled @ 1045 on 8/6/2024

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 Celcius

Sampled @ 1045

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: Task #: Start Date: 8 / 6 /2024 Time: 0930

Field Personnel: G. Assailly Finish Date: 8/6/2024 Time: 1015

WELL INFORMATION

Well ID: SZ

Casing ID: 2 Inches

EVENT TYPE

Well Development

Well Volume Approach Sampling

~~Low Flow / Low Stress~~ Sampling Other

(Specify): Low Flow

YSI SERIAL NO: 21Z2318X

Heron Serial NO: 0116738X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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
												GA
Pre	0	0930	—	5.48	—	—	—	—	—	—	—	—
Purge	5	0935	0.5>	5.50	—	13.3	7.11	0.821	2.69	16.25	73.5	Clear
↓	10	0940	2	5.45	—	13.3	7.06	0.819	2.40	3.43	74.1	"
↓	15	0945	3	5.48	—	13.4	7.05	0.818	0.80	5.72	75.5	"
********	20	0950	4	5.65	—	13.3	7.08	0.818	0.65	4.06	69.4	"
↓	25	0955	5	5.45		13.4	7.06	0.817	0.62	2.25	68.4	"
Final	30	1008	6	5.35								
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: SZ

Sampled @ 1000 on 8/6/2024

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 Celcius

Sampled @ 1000

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 8 / 6 /2024 Time: 0843
Field Personnel: G. Assalley Finish Date: 8/6/2024 Time: 0920

WELL INFORMATION

Well ID: 34
Casing ID: 2" Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / ~~Low-Stress~~ Sampling Other
(Specify): Low Flow
YSI SERIAL NO: 21222188
Heron Serial NO: H1167388

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	0840	—	8.25	—	—	—	—	—	—	—	—
Purge	5	0845	0.5	8.32		12.9	7.20	1.107	3.54	12.49	-75.6	Clear
↓	10	0850	0.5	8.40		13.1	7.02	1.071	0.71	15.07	-93.5	"
↓	15	0855	1	8.37		13.1	6.99	1.075	0.28	14.02	-98.7	"
*******	20	0900	1.5	8.30		13.1	6.98	1.079	0.20	13.17	-100.00	"
↓	25	0905	2	8.32		13.6	6.99	1.082	0.15	13.79	-101.7	"
Final	30	0915	2.5	8.31	—	—	—	—	—	—	—	—
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 34
Sampled @ 0910 on 8/6/2024

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 Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 8 / 6 /2024 Time: 1110
Field Personnel: G. Assalley Finish Date: 8/6/2024 Time: 1206

WELL INFORMATION

Well ID: 35
Casing ID: 2" Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow
YSI SERIAL NO: 22318X
Heron Serial NO: 16738Y

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1112	—	8.39	—	—	—	—	—	—	—	—
Purge	5	1115	0.5	8.45	—	15.9	6.88	1.810	1.00	5.17	106.5	Clear
/	10	1120	0.5	8.49	—	15.8	6.85	1.728	0.32	2.07	111.0	" "
/	15	1125	1	8.51	—	15.8	6.85	1,718	0.18	6.85 on	113.5	" "
*******	20	1130	1.5	8.42	—	15.8	6.85	1.723	0.14	~~6.85~~	114.6	" "
Final	25	1152	3	8.39	—	—	—	—	—	9.47	—	—
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: -35
Sampled @ 1135 on 8/6/2024 Duplicate

ABBREVIATIONS

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

Field Dup @ 1135

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra

Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: ~~1440~~ GA 1420

Field Personnel: G. Assaliny Finish Date: 07/16/2024 Time: 1452

WELL INFORMATION

Well ID: Hen-MW-405

Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO
24A101225

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/- 10%~~	pH (SU) ~~+/- 0.01~~	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) ~~+/- 10%~~	Visual Clarity/Odor
pre	0	1421		40.38	—	—	—	—	—	—	—	— GA
purge	5	1425		40.38	—	17.8	7.84	0.723	0.90	25.2	92.3	Clear
↓	10	1430		40.38	—	17.8	7.84	0.718	0.24	9.90	110.3	↓
↓	15	1435		40.38	—	19.7	7.83	0.715	0.20	9.03	115.2	↓
↓	20	1440				17.8	7.83	0.714	0.18	8.56	118.1	↓
Final	25	~~1445~~ on 1452		40.38								
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time: Sample ID: Hen-MW-405
Sampled at 1443 on 07/16/24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/16/2024 Time: 0807
Field Personnel: G. Assalley Finish Date: 07/16/2024 Time: 0907

WELL INFORMATION

Well ID: Hen-455
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO
24A101225

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) ~~+/- 10%~~ +/- 0.1	pH (SU) ~~+/- 0.01~~ 0.1	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) ~~+/- 10%~~ +/- 10 mV	Visual Clarity/Odor
pre	0	0807	—	20.26	—	—	—	—	—	—	—	— GA
purge	5	0810	0	20.24	— GA	19.7	7.10	0.911	1.73	37.59	13.9	clear
↓	10	0815	0	20.25	—	19.6	7.08	0.916	0.45	32.18	57.7	↓
↓	15	0820	1	20.23	—	19.6	7.07	0.913	0.21	22.48	76.3	↓
↓	20	0825	1	20.22	—	19.6	7.07	0.911	0.18	16.01	84.9	↓
↓	25	0830	2	20.24	—	19.6	7.07	0.910	0.17	12.34	90.0	↓
↓	30	0835	3	20.23	—	19.7	7.07	0.912	0.18	12.10	94.5	↓
↓	35	0840	4	20.23		19.7	7.07	0.911	0.17	12.12	96.9	↓
Final	40	0842	5	20.22		—	—	—	—	—	—	—
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time: Sampled @ 0842 on 07/16/24

Sample ID: Hen-455

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 6054 Task #: Start Date: 8/6/2024 Time: 0930
Field Personnel: Lorne F. Finish Date: Same Time: 0955

WELL INFORMATION

Well ID: 4D
Casing ID: 2" Inches

EVENT TYPE

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

YSI SERIAL NO: 24A101225
Heron Serial NO: U102112X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	0930		51.61								
Purge	5	0935		51.80		19.8	7.32	.859	4.44	1.38	115.5	Clear
	10	0940		51.80		19.7	7.32	.857	2.05	1.50	117.9	
	15	0945		51.80		19.6	7.23	.858	1.97	1.54	117.0	
*******	20	0950		51.83		19.6	7.24	.857	1.96	1.50	116.5	
	25	0955	2.5Gal	51.83		19.5	7.24	.857	1.94	1.51	116.6	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 4D
Sampled @ 0955 on 8/6/24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 8/16/2024 Time: 1100
Field Personnel: Lorne. F. Finish Date: Same Time: 1120

WELL INFORMATION

Well ID: 47
Casing ID: 2" (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow
YSI SERIAL NO: 24A104225
Heron Serial NO: 0102112X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1100		55.90								Clear
Purge	5	1105		55.90		18.5	7.14	.910	3.46	1.13	143.6	
	10	1110		55.90		18.6	7.17	.907	2.88	.33	143.7	
	15	1115		55.90		18.5	7.17	.907	2.78	.27	143.5	
*******	20	1120	2GAL	55.90		18.4	7.17	.907	2.77	.44	143.5	
	25											
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 47
Sampled @ 1120 on 8/16/24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/18/2024 Time: 0830
Field Personnel: Lorne Finish Date: Same Time:

WELL INFORMATION

Well ID: 48R
Casing ID: 2 inches No Bladder

EVENT TYPE
Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling
Other (Specify): ~~Low Flow~~ YSI SERIAL NO 24E100 3246

WATER QUALITY INDICATOR PARAMETERS (continued) Horiba 12DF2202054FF

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	0835		40.53								Cloudy
purge	5	0845		40.53		18.6	7.70	909	.50	209.17	127.5	↓
	10	0850		40.53		18.6	7.70	908	.20	55.29	121.7	
	15	0855		40.53		18.5	7.69	909	.19	27.14	115.2	clear
*	20	0900		40.53		18.6	7.69	910	.19	13.19	110.3	
	25	0905	2.Gal	40.53		18.6	7.69	910	.18	8.56	109.1	↓
	30	0910										
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID, date, & time:

ID 48R 7-18-24 @ 0905

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 08/06/2024 Time: 1345
Field Personnel: G. Arcalin Finish Date: 08/06/2024 Time: 1445

WELL INFORMATION

Well ID: Hen-49
Casing ID: 2" Inches

EVENT TYPE

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

YSI SERIAL NO: 21223188
Heron Serial NO: 4116738X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1350	—	22.71	—	—	—	—	—	—	—	—
Purge	5	1355	0.5>	22.42	—	14.7	7.04	0.940	0.67	12.35	54.6	Clear
↓	10	1400	0.5	21.74	—	15.0	7.03	0.938	0.45	9.58 @	60.3	" "
	15	1405	1	21.71	—	15.0	7.02	0.937	0.35	2.05	63.3	" "
*******	20	1410	1.5	21.72	—	15.0	7.02	0.939	0.20	2.97 2.74	66.4	" "
↓	25	1415	2.5	21.69	—	15.0	7.03	0.939	0.18	3.30	59.7	" "
Final	30	1435	—	21.71	—	—	—	—	—	—	—	—
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: [redacted]-49, -99MS, -49MSD
Sampled @ 1420 on 8/6/2024

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 Celcius

@ 1420

MS MSD

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 6054 Task #: Start Date: 8/6/2024 Time: 15.10
Field Personnel: Lorne F Finish Date: Same Time: 1535

WELL INFORMATION

Well ID: 50
Casing ID: 2 (Inches)

EVENT TYPE

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

YSI SERIAL NO: 24A102225
Heron Serial NO: 0102112X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1510		18.37								→
Purge	5	1515		18.37		16.6	7.30	1.168	1.70	2.69	130.7	Clear
	10	1520		18.37		16.4	7.36	1.176	[illegible]	1.32	135.4	
	15	1525		18.37		16.3	7.36	1.178	1.13	1.42	136.4	
*******	20	1530		18.37		16.3	7.37	1.176	1.09	1.37	136.5	
	25	1536		18.37		16.4	7.37	1.175	1.00	1.35	136.6	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 50
Sampled @ 1535 on 8/6/24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.0054 Task #: Start Date: 7/18/2024 Time: 1006
Field Personnel: G. Assaller Finish Date: 07/18/24 Time:

WELL INFORMATION

Well ID: Hen_51
Casing ID: inches

EVENT TYPE

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

YSI SERIAL NO 4122318X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 10%	pH (SU) +/- 0.01	SEC or Cond. (µs/cm) +/- 3%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) +/- 10%	ORP (mV) +/- 10%	Visual Clarity/Odor
pre	0	1001	—	17.88	—	—	—	—	→	—	—	—
purge	5	1005	0.5	17.92	—	13.4	7.33	0.948	1.12	22.37	-105.3	Clear
↓	10	1010	1	18.05	—	13.8	7.37	0.955	0.50	21.57	-123.3	↓
↓	15	1015	1.5	18.18	—	13.3	7.38	0.956	0.36	19.95	-128.4	↓
↓	20	1020	2			13.7	7.38	0.956	0.32	20.04	-129.1	↓
Final	25	10										
	30											
	35											
	40											
	45											
	50											
	55											
	60											

GA

NOTES (continued)

Sample ID, date, & time: Well ID: Hen_51 Sampled @ 1025 on 07/18/24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 8 /6 /2024 Time: 1145
Field Personnel: Lorne F. Finish Date: Same Time: 1205

WELL INFORMATION

Well ID: 52
Casing ID: 2 (Inches)

EVENT TYPE

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

YSI SERIAL NO: 24A101225
Heron Serial NO: U102112X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1145		54.01								
Purge	5	1150		54.01		19.7	7.13	.924	3.16	3.54	123.7	Clear
	10	1155		54.01		19.9	7.05	.932	1.15	1.39	127.0	
	15	1200		54.05		20.0	7.04	.932	1.00	1.29	127.2	
*******	20	1205	2 GAL	54.05		20.0	7.04	.932	.98	1.20	126.9	
	25	1210										
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 52
Sampled @ 1205 on 8/6/24

ABBREVIATIONS

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

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 8 / 6 /2024 Time: 1015
Field Personnel: Lorne F. Finish Date: Same Time: 1040

WELL INFORMATION

Well ID: 54
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow
YSI SERIAL NO: 24A101225
Heron Serial NO: D102112X

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1015		53.59								→
Purge	5	1020		53.60		17.1	7.40	.870	5.50	1.11	119.4	Clear
	10	1025		53.62		18.7	7.28	.871	3.33	.51	124.7	↓
	15	1030		53.64		19.0	7.28	.874	3.18	.47	124.6	
*******	20	1035		53.66		19.0	7.29	.874	3.16	.61	124.8	
	25	1040	2.5gal	53.68		19.0	7.29	.874	3.07	.81	124.9	↓
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 54
Sampled @ 1040 on 8/6/24

ABBREVIATIONS

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

Dupe @ 1045

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: HEN
Event: HEN-24Q3 Rev 0

Well	Unique ID	Date	Time	Measured DTW	Comments	Dedicated Pump?	Dedicated Tubing?	Initials
02 L	HEN_02							
04R L	HEN_04R							
05R L	HEN_05!R							
05DR L	HEN_05&DR							
06	HEN_06	7/15/24	1210	22.72	33.19:DTP	Y	Y	AB
10 L	HEN_10							
11 L	HEN_11							
15 L	HEN_15							
19SR L	HEN_19#SR							
19D L	HEN_19&D							
25	HEN_25	7/15/24	0918	15.80	DTP: 18.15	Y	Y	AB
26	HEN_26	7/15/24	0920	15.94	DTP: 27.4	Y	Y	AB
30	HEN_30	7/15/24	0928	4.5	DTP: 21.3	Y	Y	AB
31	HEN_31	7/15/24	0930	6.43	DTP: 10.25	Y	Y	AB
33	HEN_33	7/15/24	1100	3.72	DTP: 38.21	Y	Y	AB
36	HEN_36	7/15/24	0905	15.3	DTB: 28.8	N	N	AB
40S L	HEN_40#S							
45S	HEN_45#S	7/15/24	1215	11.36	DTP: 38.53	Y	Y	AB
48R L	HEN_48R							
XPW01	HEN_XPW01_pore	7/15/24	1203	11.12	DTB: 19.77	N	N	AB
XPW02	HEN_XPW02_pore	7/15/24	1200	15.33	DTB: 21.75	N	N	AB
XPW03	HEN_XPW03_pore	7/15/24	1130	6.41	DTB: 22.01	N	N	AB
* SG02	HEN_YSG_ILRIVER	see	SAR 4		SG03			

4 has transducer

U: 05/02/24 JRK

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: HEN
Event: HEN-24Q3 Rev 0

Well	Unique ID	Date	Time	Measured DTW	Comments	Dedicated Pump?	Dedicated Tubing?	Initials
02	HEN_02	7-15-24	1055	45.02		Y	Y	LF
04R	HEN_04R	7-15-24	1155	45.37		Y	Y	LF
05R	HEN_05!R	7-15-24	1240	41.27		Y	Y	LF
05DR	HEN_05&DR	7-15-24	1250	41.23		Y	Y	LF
06	HEN_06							
10	HEN_10	7-15-24	0930	50.78		Yes	Yes	LF
11	HEN_11	7-15-24	0925	51.03		no	no	LF
15	HEN_15	7-15-24	1130	49.65		yes no	yes no	LF
19SR	HEN_19#SR	7-15-24	1210	37.59		no	no	LF
19D	HEN_19&D	7-15-24	1200	40.11		Yes	Yes	LF
25	HEN_25							
26	HEN_26							
30	HEN_30							
31	HEN_31							
33	HEN_33							
36	HEN_36							
40S	HEN_40#S	7-15-24	1225	40.55		Y	Y	LF
45S	HEN_45#S							
48R	HEN_48R	7-15-24	1230	40.80		n	n	LF
XPW01	HEN_XPW01_pore							
XPW02	HEN_XPW02_pore							
XPW03	HEN_XPW03_pore							
SG02	HEN_YSG_ILRIVER							
53	Hen 53	7.15.24	0955	55.62	U: 05/02/24 JRK	no	no	LF

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: HEN
Event: HEN-24Q3 Rev 0

Well	Unique ID	Date	Time	Measured	On-site Transducer Data									
				DTW	Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)	Comments	Dedicated Pump?	Dedicated Tubing?	Initials	
03R	HEN_03R				21615140									
07	HEN_07	7-15-24	1425	67.77	21615139	Yes	450.6337	Y	H	DTP 72.27	Y	Y	LF	
08	HEN_08	7-15-24	1025	53.75	21615138	Yes	446.805	Y	H	DTP 57.05	Y	Y	LF	
08D	HEN_08&D	7-15-24	1013	54.24	21921673	Yes	447.1855	Y	H	~~DTW 54.24~~	Y	X	LF	DTP 84.28
12	HEN_12				21615520									
13	HEN_13				21615515									
16	HEN_16	7-15-24	1105	54.42	21615534	Yes	447.1305	Y	H	DTP 60.78	Y	Y	LF	
17	HEN_17	7-15-24	1125	56.61	21615500	Yes	450.8103	Y	H	DTP 61.98	Y	Y	LF	
18S	HEN_18#S	7-15-24	1310	40.60	21615482	Yes	447.1034	Y	H	DTP 42.99	Y	Y	LF	
18D	HEN_18&D	7-15-24	1300	40.77	21615609	Yes	446.480	Y	H	DTP 72.29	Y	Y	LF	
21R	HEN_21R				21615613									
22	HEN_22				21615497									
22D	HEN_22&D				21564134									
23	HEN_23				21615600									
27	HEN_27				21615576									
32	HEN_32				21615487									
34	HEN_34				21615509									
35	HEN_35				21615510									
46	HEN_46				21615491									
47	HEN_47				21615505									
49	HEN_49				21629307									
50	HEN_50				21615489									
51	HEN_51				21615608									
52	HEN_52	7-15-24	0940	60.98	21615145	Yes	447.1953	Y	H	DTP ~~60.98~~	Y	Y	LF	60.98
54	HEN_54				21615143									
55	HEN_55				21615612									
XSG01	HEN_XSG01				21768087									
SG03	HEN_YSG03				21768088									

U: 05/02/24 JRK

Notes:
Batt = battery
bmp = below measuring point
ft = feet
H = high
L = low
M = medium
R = replaced

R601 - Hen

SAR4

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: HEN
Event: HEN-24Q3 Rev 0

Well	Unique ID	Date	Time	Measured	On-site Transducer Data								
				DTW	Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)	Comments	Dedicated Pump?	Dedicated Tubing?	Initials
03R	HEN_03R	7/15/24	1305	35.04	21615140	Y	447.19	Y	H	DTP: 47.08	Y	Y	AB
07	HEN_07				21615139								
08 L	HEN_08				21615138								
08D L	HEN_08&D				21921673								
12	HEN_12	7/15/24	1135	51.41	21615520	Y	447.29	Y	H	DTP: 52.32	Y	Y	AB
13	HEN_13	7/15/24	1140	51.36	21615515	Y	444.07	Y	H	DTP: 60.02	Y	Y	AB
16 L	HEN_16				21615534								
17 L	HEN_17				21615500								
18S L	HEN_18#S				21615482								
18D L	HEN_18&D				21615609								
21R	HEN_21R	7/15/24	1010	5.81	21615613	Y	446.529	Y	H	DTP: 45.63	Y	Y	AB
22	HEN_22	7/15/24	1040	18.39	21615497	Y	446.34	Y	H	DTP: 27.4	Y	Y	AB
22D	HEN_22&D	7/15/24	1045	19.11	21564134	Y	446.53	Y	H	DTP: 53.62	Y	Y	AB
23	HEN_23	7/15/24	1025	16.82	21615600	Y	446.77	Y	H	DTP: 35.2	Y	Y	AB
27	HEN_27	7/15/24	0935	4.12	21615576	Y	446.606	Y	M	DTP: 30.41	Y	Y	AB
32	HEN_32	7/15/24	0945	5.01	21615487	Y	446.69	Y	H	DTP: 13.34	Y	Y	AB
34	HEN_34	7/15/24	1000	4.47	21615509	NO Transducer				DTP: 30.21	Y	Y	AB
35	HEN_35	7/15/24	0910	8.25	21615510	Y	446.43	Y	H	DTP: 16.09	Y	Y	AB
46	HEN_46	7/15/24	1125	51.62	21615491	Y	446.83	Y	H	DTP: 55.00	Y	Y	AB
47	HEN_47	7/15/24	1150	55.87	21615505	Y	447.10	Y	H	DTP: 58.76	Y	Y	AB
49	HEN_49	7/15/24	1030	21.5	21629307	Y	446.89	Y	H	DTP: 38.63	Y	Y	AB
50	HEN_50	7/15/24	0845	18.11	21615489	Y	446.07	Y	H	DTP: 25.2	Y	Y	AB
51	HEN_51	7/15/24	1020	18.29	21615608	Y	446.57	Y	H	DTP: 58.45	Y	Y	AB
52 L	HEN_52				21615145								
54	HEN_54	7/15/24	1147	53.32	21615143	Y	447.14	Y	H	DTP: 69.14	Y	Y	AB
55	HEN_55	7/15/24	1045	50.91	21615612	Y	447.90	Y	H	DTP: 94.06	Y	Y	AB
XSG01	HEN_XSG01	7/15/24	1120	10.14	21768087	Y	483.47	Y	H	—	N	N	AB
SG03	HEN_YSG03	7/15/24	1230	5.25	21768088	Y	8.835	Y	M	—	N	N	AB

U: 05/02/24 JRK

Notes:
Batt = battery
bmp = below measuring point
ft = feet
H = high
L = low
M = medium
R = replaced

RG01 HEN_RG01 7/15/24 data downloaded @1300 (record serial NO.)

serial no: -52492 or 21628684

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 09/06/24 15:03:05

JOB DESCRIPTION

HEN-24Q3
HEN_000_RAD

JOB NUMBER

500-253560-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

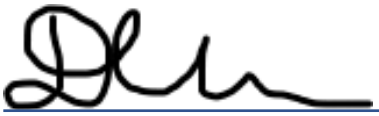
Eurofins Chicago

Job Notes

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Case Narrative

Client: Vistra Energy Corp
Project: HEN-24Q3

Job ID: 500-253560-2

Job ID: 500-253560-2 — Eurofins Chicago

Job Narrative
500-253560-2

Receipt
The samples were received on 07/16/24 13:05. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 18 coolers at receipt time were -0.2º C, 0.8º C, 0.9º C, 0.9º C, 1.6º C, 1.7º C, 3.1º C, 4.0º C, 4.2º C, 5.7º C, 5.7º C, 5.7º C, 5.9º C, 9.1º C, 11.3º C, 11.8º C, 11.8º C and 12.7º C.

Receipt Exceptions
Received bottles for samples 28 & 32 marked out on the COC, logged them in. HEN_27 (500-253560-28) and HEN_35_FD (500-253560-32)

The following samples from the July sampling event were received at the laboratory outside the required temperature criteria: HEN_17 (500-253560-24), HEN_21R (500-253560-25), HEN_21R_MS (500-253560-25[MS]), HEN_21R_MSD (500-253560-25[MSD]), HEN_22 (500-253560-26), HEN_22&D (500-253560-27), HEN_27 (500-253560-28), HEN_32 (500-253560-29), HEN_34 (500-253560-30), HEN_35 (500-253560-31), HEN_35_FD (500-253560-32), HEN_46 (500-253560-33), HEN_47 (500-253560-34), HEN_49 (500-253560-35), HEN_49_MS (500-253560-35[MS]), HEN_49_MSD (500-253560-35[MSD]), HEN_50 (500-253560-36), HEN_52 (500-253560-37), HEN_54 (500-253560-38) and HEN_54_FD (500-253560-39). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to cancel analysis, pending resamping.

Affected samples were recollected on 08/06/24 and added to the existing login to report together.

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): HEN_FB (500-253560-40) Sample date added to COC to match date of collection of other samples turned in on the COC, default sample time of 00:00 recorded.

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

Detection Summary

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

Job ID: 500-253560-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_07 — Lab Sample ID: 500-253560-1

No Detections.

Client Sample ID: HEN_12 — Lab Sample ID: 500-253560-2

No Detections.

Client Sample ID: HEN_13 — Lab Sample ID: 500-253560-3

No Detections.

Client Sample ID: HEN_03R — Lab Sample ID: 500-253560-5

No Detections.

Client Sample ID: HEN_03R_FD — Lab Sample ID: 500-253560-6

No Detections.

Client Sample ID: HEN_08 — Lab Sample ID: 500-253560-9

No Detections.

Client Sample ID: HEN_08&D — Lab Sample ID: 500-253560-10

No Detections.

Client Sample ID: HEN_16 — Lab Sample ID: 500-253560-12

No Detections.

Client Sample ID: HEN_16_FD — Lab Sample ID: 500-253560-13

No Detections.

Client Sample ID: HEN_18&D — Lab Sample ID: 500-253560-14

No Detections.

Client Sample ID: HEN_18#S — Lab Sample ID: 500-253560-15

No Detections.

Client Sample ID: HEN_45#S — Lab Sample ID: 500-253560-17

No Detections.

Client Sample ID: HEN_23 — Lab Sample ID: 500-253560-19

No Detections.

Client Sample ID: HEN_51 — Lab Sample ID: 500-253560-21

No Detections.

Client Sample ID: FB — Lab Sample ID: 500-253560-22

No Detections.

Client Sample ID: HEN_17 — Lab Sample ID: 500-253560-24

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

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

Job ID: 500-253560-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_21R — Lab Sample ID: 500-253560-25

No Detections.

Client Sample ID: HEN_22 — Lab Sample ID: 500-253560-26

No Detections.

Client Sample ID: HEN_22&D — Lab Sample ID: 500-253560-27

No Detections.

Client Sample ID: HEN_27 — Lab Sample ID: 500-253560-28

No Detections.

Client Sample ID: HEN_32 — Lab Sample ID: 500-253560-29

No Detections.

Client Sample ID: HEN_34 — Lab Sample ID: 500-253560-30

No Detections.

Client Sample ID: HEN_35 — Lab Sample ID: 500-253560-31

No Detections.

Client Sample ID: HEN_35_FD — Lab Sample ID: 500-253560-32

No Detections.

Client Sample ID: HEN_46 — Lab Sample ID: 500-253560-33

No Detections.

Client Sample ID: HEN_47 — Lab Sample ID: 500-253560-34

No Detections.

Client Sample ID: HEN_49 — Lab Sample ID: 500-253560-35

No Detections.

Client Sample ID: HEN_50 — Lab Sample ID: 500-253560-36

No Detections.

Client Sample ID: HEN_52 — Lab Sample ID: 500-253560-37

No Detections.

Client Sample ID: HEN_54 — Lab Sample ID: 500-253560-38

No Detections.

Client Sample ID: HEN_54_FD — Lab Sample ID: 500-253560-39

No Detections.

Client Sample ID: HEN_FB — Lab Sample ID: 500-253560-40

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

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

Job ID: 500-253560-2
SDG: HEN_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: HEN-24Q3

Job ID: 500-253560-2
SDG: HEN_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-253560-1	HEN_07	Water	07/15/24 15:20	07/16/24 13:05
500-253560-2	HEN_12	Water	07/15/24 15:45	07/16/24 13:05
500-253560-3	HEN_13	Water	07/15/24 16:35	07/16/24 13:05
500-253560-5	HEN_03R	Water	07/16/24 09:53	07/17/24 09:40
500-253560-6	HEN_03R_FD	Water	07/16/24 09:53	07/17/24 09:40
500-253560-9	HEN_08	Water	07/16/24 14:00	07/17/24 09:40
500-253560-10	HEN_08&D	Water	07/16/24 15:46	07/17/24 09:40
500-253560-12	HEN_16	Water	07/16/24 15:30	07/17/24 09:40
500-253560-13	HEN_16_FD	Water	07/16/24 15:40	07/17/24 09:40
500-253560-14	HEN_18&D	Water	07/16/24 13:17	07/17/24 09:40
500-253560-15	HEN_18#S	Water	07/16/24 12:06	07/17/24 09:40
500-253560-17	HEN_45#S	Water	07/16/24 08:42	07/17/24 09:40
500-253560-19	HEN_23	Water	07/18/24 09:45	07/18/24 13:00
500-253560-21	HEN_51	Water	07/18/24 10:25	07/18/24 13:00
500-253560-22	FB	Water	07/18/24 08:00	07/18/24 13:00
500-253560-24	HEN_17	Water	08/06/24 09:10	08/07/24 09:05
500-253560-25	HEN_21R	Water	08/06/24 13:15	08/07/24 09:05
500-253560-26	HEN_22	Water	08/06/24 15:50	08/07/24 09:05
500-253560-27	HEN_22&D	Water	08/06/24 15:15	08/07/24 09:05
500-253560-28	HEN_27	Water	08/06/24 10:45	08/07/24 09:05
500-253560-29	HEN_32	Water	08/06/24 10:00	08/07/24 09:05
500-253560-30	HEN_34	Water	08/06/24 09:10	08/07/24 09:05
500-253560-31	HEN_35	Water	08/06/24 11:35	08/07/24 09:05
500-253560-32	HEN_35_FD	Water	08/06/24 11:35	08/07/24 09:05
500-253560-33	HEN_46	Water	08/06/24 09:55	08/07/24 09:05
500-253560-34	HEN_47	Water	08/06/24 11:20	08/07/24 09:05
500-253560-35	HEN_49	Water	08/06/24 14:20	08/07/24 09:05
500-253560-36	HEN_50	Water	08/06/24 15:35	08/07/24 09:05
500-253560-37	HEN_52	Water	08/06/24 12:05	08/07/24 09:05
500-253560-38	HEN_54	Water	08/06/24 10:40	08/07/24 09:05
500-253560-39	HEN_54_FD	Water	08/06/24 10:45	08/07/24 09:05
500-253560-40	HEN_FB	Water	08/06/24 00:00	08/07/24 09:05

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_07

Date Collected: 07/15/24 15:20
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-1

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.280		0.100	0.103	1.00	0.0958	pCi/L	07/18/24 08:48	08/09/24 14:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.3*		*30 - 110*	*07/18/24 08:48*	*08/09/24 14:41*	*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	0.156	U	0.367	0.367	1.00	0.643	pCi/L	07/18/24 08:52	07/30/24 12:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.3*		*30 - 110*	*07/18/24 08:52*	*07/30/24 12:36*	*1*
Y Carrier	*78.9*		*30 - 110*	*07/18/24 08:52*	*07/30/24 12:36*	*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	0.436	U	0.380	0.381	5.00	0.643	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_12

Date Collected: 07/15/24 15:45
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0849	U	0.0680	0.0684	1.00	0.0982	pCi/L	07/18/24 08:48	08/09/24 14:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*30 - 110*	*07/18/24 08:48*	*08/09/24 14:41*	*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	**0.556**		0.362	0.365	1.00	0.529	pCi/L	07/18/24 08:52	07/30/24 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.5*		*30 - 110*	*07/18/24 08:52*	*07/30/24 12:32*	*1*
Y Carrier	*80.7*		*30 - 110*	*07/18/24 08:52*	*07/30/24 12:32*	*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	**0.641**		0.368	0.371	5.00	0.529	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_13

Date Collected: 07/15/24 16:35
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-3

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.106		0.0700	0.0706	1.00	0.0923	pCi/L	07/18/24 08:48	08/09/24 14:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.8*		*30 - 110*	*07/18/24 08:48*	*08/09/24 14:41*	*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	0.0465	U	0.308	0.308	1.00	0.565	pCi/L	07/18/24 08:52	07/30/24 12:32	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.8*		*30 - 110*	*07/18/24 08:52*	*07/30/24 12:32*	*1*
Y Carrier	*83.4*		*30 - 110*	*07/18/24 08:52*	*07/30/24 12:32*	*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	0.153	U	0.316	0.316	5.00	0.565	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R

Date Collected: 07/16/24 09:53
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-5

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.0912**		0.0608	0.0614	1.00	0.0763	pCi/L	07/19/24 07:30	08/12/24 23:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*07/19/24 07:30*	*08/12/24 23:59*	*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	0.0642	U	0.296	0.296	1.00	0.538	pCi/L	07/19/24 07:33	07/31/24 12:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:21*	*1*
Y Carrier	*83.4*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:21*	*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	0.155	U	0.302	0.302	5.00	0.538	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD

Date Collected: 07/16/24 09:53
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-6

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.000698	U	0.0415	0.0415	1.00	0.0895	pCi/L	07/19/24 07:30	08/12/24 23:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*07/19/24 07:30*	*08/12/24 23:59*	*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	-0.105	U	0.293	0.293	1.00	0.573	pCi/L	07/19/24 07:33	07/31/24 12:22	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.8*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:22*	*1*
Y Carrier	*85.2*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:22*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.000	U	0.296	0.296	5.00	0.573	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08

Date Collected: 07/16/24 14:00
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-9

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0845	U	0.0648	0.0652	1.00	0.0917	pCi/L	07/19/24 07:30	08/15/24 09:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*07/19/24 07:30*	*08/15/24 09:59*	*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	0.512	U	0.383	0.386	1.00	0.590	pCi/L	07/19/24 07:33	07/31/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:08*	*1*
Y Carrier	*85.2*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:08*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.596**		0.388	0.391	5.00	0.590	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08&D

Date Collected: 07/16/24 15:46
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-10

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.112**		0.0721	0.0728	1.00	0.0953	pCi/L	07/19/24 07:30	08/13/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*07/19/24 07:30*	*08/13/24 07:38*	*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	0.306	U	0.340	0.341	1.00	0.555	pCi/L	07/19/24 07:33	07/31/24 12:08	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.3*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:08*	*1*
Y Carrier	*84.1*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:08*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.418	U	0.348	0.349	5.00	0.555	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16

Date Collected: 07/16/24 15:30
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-12

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.117**		0.0746	0.0753	1.00	0.0973	pCi/L	07/19/24 07:30	08/13/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*07/19/24 07:30*	*08/13/24 07:38*	*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	-0.137	U	0.315	0.316	1.00	0.623	pCi/L	07/19/24 07:33	07/31/24 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.6*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:06*	*1*
Y Carrier	*84.9*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:06*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.117	U	0.324	0.325	5.00	0.623	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16_FD

Date Collected: 07/16/24 15:40
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-13

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0891	U	0.0801	0.0805	1.00	0.123	pCi/L	07/19/24 07:30	08/13/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.4*		*30 - 110*	*07/19/24 07:30*	*08/13/24 07:38*	*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	0.206	U	0.315	0.316	1.00	0.535	pCi/L	07/19/24 07:33	07/31/24 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.4*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:06*	*1*
Y Carrier	*84.9*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:06*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.295	U	0.325	0.326	5.00	0.535	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18&D

Date Collected: 07/16/24 13:17
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-14

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.215**		0.0907	0.0928	1.00	0.0959	pCi/L	07/19/24 07:30	08/13/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*07/19/24 07:30*	*08/13/24 07:38*	*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	0.241	U	0.324	0.325	1.00	0.542	pCi/L	07/19/24 07:33	07/31/24 12:06	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:06*	*1*
Y Carrier	*84.5*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:06*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.457	U	0.336	0.338	5.00	0.542	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S

Date Collected: 07/16/24 12:06
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-15

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0654	U	0.0654	0.0657	1.00	0.102	pCi/L	07/19/24 07:30	08/13/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.9*		*30 - 110*	*07/19/24 07:30*	*08/13/24 07:38*	*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	0.193	U	0.320	0.321	1.00	0.550	pCi/L	07/19/24 07:33	07/31/24 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*83.9*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:07*	*1*
Y Carrier	*83.4*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:07*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.258	U	0.327	0.328	5.00	0.550	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_45#S

Date Collected: 07/16/24 08:42
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-17

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.155		0.0792	0.0804	1.00	0.0918	pCi/L	07/19/24 07:30	08/13/24 07:38	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*07/19/24 07:30*	*08/13/24 07:38*	*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	0.220	U	0.316	0.317	1.00	0.533	pCi/L	07/19/24 07:33	07/31/24 12:07	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:07*	*1*
Y Carrier	*86.7*		*30 - 110*	*07/19/24 07:33*	*07/31/24 12:07*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.375	U	0.326	0.327	5.00	0.533	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_23

Date Collected: 07/18/24 09:45
Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-19

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0446	U	0.0540	0.0542	1.00	0.0884	pCi/L	07/23/24 08:14	08/14/24 15:09	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*30 - 110*	*07/23/24 08:14*	*08/14/24 15:09*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.321	U	0.281	0.283	1.00	0.440	pCi/L	07/23/24 08:19	08/02/24 11:35	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.3*		*30 - 110*	*07/23/24 08:19*	*08/02/24 11:35*	*1*
Y Carrier	*86.4*		*30 - 110*	*07/23/24 08:19*	*08/02/24 11:35*	*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	0.366	U	0.286	0.288	5.00	0.440	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_51
Date Collected: 07/18/24 10:25
Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-21
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.614		0.134	0.145	1.00	0.0862	pCi/L	07/23/24 08:14	08/14/24 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.0*		*30 - 110*	*07/23/24 08:14*	*08/14/24 15:10*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.688		0.347	0.353	1.00	0.470	pCi/L	07/23/24 08:19	08/02/24 11:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.0*		*30 - 110*	*07/23/24 08:19*	*08/02/24 11:36*	*1*
Y Carrier	*82.2*		*30 - 110*	*07/23/24 08:19*	*08/02/24 11:36*	*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	1.30		0.372	0.382	5.00	0.470	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: FB
Date Collected: 07/18/24 08:00
Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-22
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0463	U	0.0534	0.0535	1.00	0.0860	pCi/L	07/23/24 08:14	08/14/24 15:10	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.3*		*30 - 110*	*07/23/24 08:14*	*08/14/24 15:10*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0205	U	0.262	0.262	1.00	0.498	pCi/L	07/23/24 08:19	08/02/24 11:36	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.3*		*30 - 110*	*07/23/24 08:19*	*08/02/24 11:36*	*1*
Y Carrier	*85.6*		*30 - 110*	*07/23/24 08:19*	*08/02/24 11:36*	*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	0.0463	U	0.267	0.267	5.00	0.498	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_17

Date Collected: 08/06/24 09:10
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-24

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0733	U	0.0635	0.0638	1.00	0.0951	pCi/L	08/09/24 07:54	09/03/24 20:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.6*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:20*	*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	**0.671**		0.395	0.400	1.00	0.578	pCi/L	08/09/24 07:58	08/21/24 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.6*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*
Y Carrier	*84.1*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.745**		0.400	0.405	5.00	0.578	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R

Date Collected: 08/06/24 13:15
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-25

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.454		0.123	0.129	1.00	0.101	pCi/L	08/09/24 07:54	09/03/24 20:20	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.7*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:20*	*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	0.918		0.411	0.420	1.00	0.545	pCi/L	08/09/24 07:58	08/21/24 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.7*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*
Y Carrier	*84.9*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.37		0.429	0.439	5.00	0.545	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22

Date Collected: 08/06/24 15:50
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-26

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0751	U	0.0574	0.0578	1.00	0.0793	pCi/L	08/09/24 07:54	09/03/24 20:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:21*	*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	0.0272	U	0.289	0.289	1.00	0.536	pCi/L	08/09/24 07:58	08/21/24 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.1*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*
Y Carrier	*83.0*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.102	U	0.295	0.295	5.00	0.536	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22&D

Date Collected: 08/06/24 15:15
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-27

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.446		0.116	0.123	1.00	0.0846	pCi/L	08/09/24 07:54	09/03/24 20:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:21*	*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	0.933		0.382	0.391	1.00	0.488	pCi/L	08/09/24 07:58	08/21/24 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.3*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*
Y Carrier	*85.6*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.38		0.399	0.410	5.00	0.488	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_27

Date Collected: 08/06/24 10:45
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-28

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.159		0.0733	0.0746	1.00	0.0743	pCi/L	08/09/24 07:54	09/03/24 20:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:21*	*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	0.0941	U	0.328	0.328	1.00	0.585	pCi/L	08/09/24 07:58	08/21/24 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*
Y Carrier	*83.7*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.253	U	0.336	0.336	5.00	0.585	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_32
Date Collected: 08/06/24 10:00
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-29
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0566	U	0.0538	0.0541	1.00	0.0815	pCi/L	08/09/24 07:54	09/03/24 20:21	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.3*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:21*	*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	-0.0701	U	0.257	0.257	1.00	0.508	pCi/L	08/09/24 07:58	08/21/24 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*98.3*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*
Y Carrier	*83.7*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0566	U	0.263	0.263	5.00	0.508	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_34
Date Collected: 08/06/24 09:10
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-30
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.213**		0.0946	0.0965	1.00	0.110	pCi/L	08/09/24 07:54	09/03/24 20:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.199	U	0.335	0.336	1.00	0.666	pCi/L	08/09/24 07:58	08/21/24 12:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.7*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*
Y Carrier	*86.7*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:24*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.213	U	0.348	0.350	5.00	0.666	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35

Date Collected: 08/06/24 11:35
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-31

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.115**		0.0776	0.0783	1.00	0.108	pCi/L	08/09/24 07:54	09/03/24 20:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.3*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.404	U	0.327	0.329	1.00	0.509	pCi/L	08/09/24 07:58	08/21/24 12:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.3*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:25*	*1*
Y Carrier	*88.6*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:25*	*1*

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.519**		0.336	0.338	5.00	0.509	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35_FD

Date Collected: 08/06/24 11:35
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-32

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0672	U	0.0663	0.0666	1.00	0.104	pCi/L	08/09/24 07:54	09/03/24 20:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.8*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0652	U	0.285	0.285	1.00	0.516	pCi/L	08/09/24 07:58	08/21/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*97.8*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*1*
Y Carrier	*85.2*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*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	0.132	U	0.293	0.293	5.00	0.516	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46

Date Collected: 08/06/24 09:55
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-33

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0715	U	0.0715	0.0718	1.00	0.113	pCi/L	08/09/24 07:54	09/03/24 20:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0400	U	0.264	0.264	1.00	0.487	pCi/L	08/09/24 07:58	08/21/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.6*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*1*
Y Carrier	*88.2*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*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	0.111	U	0.274	0.274	5.00	0.487	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_47
Date Collected: 08/06/24 11:20
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-34
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.130**		0.0728	0.0737	1.00	0.0889	pCi/L	08/09/24 07:54	09/03/24 20:24	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.9*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:24*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0115	U	0.286	0.286	1.00	0.543	pCi/L	08/09/24 07:58	08/21/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.9*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*1*
Y Carrier	*83.4*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*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	0.130	U	0.295	0.295	5.00	0.543	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_49
Date Collected: 08/06/24 14:20
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-35
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.136		0.0750	0.0760	1.00	0.0936	pCi/L	08/09/24 08:06	09/03/24 20:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*30 - 110*	*08/09/24 08:06*	*09/03/24 20:26*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.305	U	0.322	0.323	1.00	0.520	pCi/L	08/09/24 08:14	08/20/24 12:13	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.4*		*30 - 110*	*08/09/24 08:14*	*08/20/24 12:13*	*1*
Y Carrier	*73.6*		*30 - 110*	*08/09/24 08:14*	*08/20/24 12:13*	*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	0.442	U	0.331	0.332	5.00	0.520	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_50

Date Collected: 08/06/24 15:35
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-36

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.251		0.0946	0.0973	1.00	0.0918	pCi/L	08/09/24 07:54	09/03/24 20:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.4*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:25*	*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	0.309	U	0.361	0.363	1.00	0.595	pCi/L	08/09/24 07:58	08/21/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.4*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*1*
Y Carrier	*84.5*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*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	0.560	U	0.373	0.376	5.00	0.595	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_52
Date Collected: 08/06/24 12:05
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-37
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0740	U	0.0621	0.0624	1.00	0.0910	pCi/L	08/09/24 07:54	09/03/24 20:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:25*	*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	0.221	U	0.298	0.298	1.00	0.499	pCi/L	08/09/24 07:58	08/21/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*92.4*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*1*
Y Carrier	*86.4*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*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	0.295	U	0.304	0.304	5.00	0.499	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54

Date Collected: 08/06/24 10:40
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-38

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.138		0.0745	0.0755	1.00	0.0890	pCi/L	08/09/24 07:54	09/03/24 20:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:25*	*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	-0.180	U	0.247	0.247	1.00	0.522	pCi/L	08/09/24 07:58	08/21/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.2*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*1*
Y Carrier	*87.9*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*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	0.138	U	0.258	0.258	5.00	0.522	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54_FD

Date Collected: 08/06/24 10:45
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-39

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.129	U	0.0915	0.0923	1.00	0.133	pCi/L	08/09/24 07:54	09/03/24 20:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.7*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:25*	*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	0.363	U	0.357	0.359	1.00	0.574	pCi/L	08/09/24 07:58	08/21/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.7*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*1*
Y Carrier	*89.0*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*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	0.491	U	0.369	0.371	5.00	0.574	pCi/L		09/06/24 12:16	1

Client Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_FB

Date Collected: 08/06/24 00:00
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-40

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0102	U	0.0400	0.0400	1.00	0.0802	pCi/L	08/09/24 07:54	09/03/24 20:25	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*08/09/24 07:54*	*09/03/24 20:25*	*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	0.00916	U	0.307	0.307	1.00	0.572	pCi/L	08/09/24 07:58	08/21/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.7*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*1*
Y Carrier	*84.1*		*30 - 110*	*08/09/24 07:58*	*08/21/24 12:26*	*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	0.0194	U	0.310	0.310	5.00	0.572	pCi/L		09/06/24 12:16	1

Definitions/Glossary

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

Job ID: 500-253560-2
HEN-257803
SDG: HEN_000_RAD

Qualifiers

Rad

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

Glossary

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

QC Association Summary

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Rad

Prep Batch: 671237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	PrecSep-21	
500-253560-2	HEN_12	Total/NA	Water	PrecSep-21	
500-253560-3	HEN_13	Total/NA	Water	PrecSep-21	
MB 160-671237/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-671237/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 671238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-1	HEN_07	Total/NA	Water	PrecSep_0	
500-253560-2	HEN_12	Total/NA	Water	PrecSep_0	
500-253560-3	HEN_13	Total/NA	Water	PrecSep_0	
MB 160-671238/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-671238/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 671460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-5	HEN_03R	Total/NA	Water	PrecSep-21	
500-253560-6	HEN_03R_FD	Total/NA	Water	PrecSep-21	
500-253560-9	HEN_08	Total/NA	Water	PrecSep-21	
500-253560-10	HEN_08&D	Total/NA	Water	PrecSep-21	
500-253560-12	HEN_16	Total/NA	Water	PrecSep-21	
500-253560-13	HEN_16_FD	Total/NA	Water	PrecSep-21	
500-253560-14	HEN_18&D	Total/NA	Water	PrecSep-21	
500-253560-15	HEN_18#S	Total/NA	Water	PrecSep-21	
500-253560-17	HEN_45#S	Total/NA	Water	PrecSep-21	
MB 160-671460/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-671460/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-253560-5 DU	HEN_03R	Total/NA	Water	PrecSep-21	

Prep Batch: 671461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-5	HEN_03R	Total/NA	Water	PrecSep_0	
500-253560-6	HEN_03R_FD	Total/NA	Water	PrecSep_0	
500-253560-9	HEN_08	Total/NA	Water	PrecSep_0	
500-253560-10	HEN_08&D	Total/NA	Water	PrecSep_0	
500-253560-12	HEN_16	Total/NA	Water	PrecSep_0	
500-253560-13	HEN_16_FD	Total/NA	Water	PrecSep_0	
500-253560-14	HEN_18&D	Total/NA	Water	PrecSep_0	
500-253560-15	HEN_18#S	Total/NA	Water	PrecSep_0	
500-253560-17	HEN_45#S	Total/NA	Water	PrecSep_0	
MB 160-671461/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-671461/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-253560-5 DU	HEN_03R	Total/NA	Water	PrecSep_0	

Prep Batch: 671938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-19	HEN_23	Total/NA	Water	PrecSep-21	
500-253560-21	HEN_51	Total/NA	Water	PrecSep-21	
500-253560-22	FB	Total/NA	Water	PrecSep-21	
MB 160-671938/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-671938/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

QC Association Summary

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Rad

Prep Batch: 671939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-19	HEN_23	Total/NA	Water	PrecSep_0	
500-253560-21	HEN_51	Total/NA	Water	PrecSep_0	
500-253560-22	FB	Total/NA	Water	PrecSep_0	
MB 160-671939/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-671939/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 674439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total/NA	Water	PrecSep-21	
500-253560-25	HEN_21R	Total/NA	Water	PrecSep-21	
500-253560-26	HEN_22	Total/NA	Water	PrecSep-21	
500-253560-27	HEN_22&D	Total/NA	Water	PrecSep-21	
500-253560-28	HEN_27	Total/NA	Water	PrecSep-21	
500-253560-29	HEN_32	Total/NA	Water	PrecSep-21	
500-253560-30	HEN_34	Total/NA	Water	PrecSep-21	
500-253560-31	HEN_35	Total/NA	Water	PrecSep-21	
500-253560-32	HEN_35_FD	Total/NA	Water	PrecSep-21	
500-253560-33	HEN_46	Total/NA	Water	PrecSep-21	
500-253560-34	HEN_47	Total/NA	Water	PrecSep-21	
500-253560-36	HEN_50	Total/NA	Water	PrecSep-21	
500-253560-37	HEN_52	Total/NA	Water	PrecSep-21	
500-253560-38	HEN_54	Total/NA	Water	PrecSep-21	
500-253560-39	HEN_54_FD	Total/NA	Water	PrecSep-21	
500-253560-40	HEN_FB	Total/NA	Water	PrecSep-21	
MB 160-674439/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-674439/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-253560-25 MS	HEN_21R_MS	Total/NA	Water	PrecSep-21	
500-253560-25 MSD	HEN_21R_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 674440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-24	HEN_17	Total/NA	Water	PrecSep_0	
500-253560-25	HEN_21R	Total/NA	Water	PrecSep_0	
500-253560-26	HEN_22	Total/NA	Water	PrecSep_0	
500-253560-27	HEN_22&D	Total/NA	Water	PrecSep_0	
500-253560-28	HEN_27	Total/NA	Water	PrecSep_0	
500-253560-29	HEN_32	Total/NA	Water	PrecSep_0	
500-253560-30	HEN_34	Total/NA	Water	PrecSep_0	
500-253560-31	HEN_35	Total/NA	Water	PrecSep_0	
500-253560-32	HEN_35_FD	Total/NA	Water	PrecSep_0	
500-253560-33	HEN_46	Total/NA	Water	PrecSep_0	
500-253560-34	HEN_47	Total/NA	Water	PrecSep_0	
500-253560-36	HEN_50	Total/NA	Water	PrecSep_0	
500-253560-37	HEN_52	Total/NA	Water	PrecSep_0	
500-253560-38	HEN_54	Total/NA	Water	PrecSep_0	
500-253560-39	HEN_54_FD	Total/NA	Water	PrecSep_0	
500-253560-40	HEN_FB	Total/NA	Water	PrecSep_0	
MB 160-674440/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-674440/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-253560-25 MS	HEN_21R_MS	Total/NA	Water	PrecSep_0	
500-253560-25 MSD	HEN_21R_MSD	Total/NA	Water	PrecSep_0	

QC Association Summary

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Rad

Prep Batch: 674443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-35	HEN_49	Total/NA	Water	PrecSep-21	
MB 160-674443/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-674443/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-253560-35 MS	HEN_49_MS	Total/NA	Water	PrecSep-21	
500-253560-35 MSD	HEN_49_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 674444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253560-35	HEN_49	Total/NA	Water	PrecSep_0	
MB 160-674444/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-674444/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-253560-35 MS	HEN_49_MS	Total/NA	Water	PrecSep_0	
500-253560-35 MSD	HEN_49_MSD	Total/NA	Water	PrecSep_0	

QC Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-671237/1-A
Matrix: Water
Analysis Batch: 674436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671237

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03822	U	0.0568	0.0569	1.00	0.0976	pCi/L	07/18/24 08:48	08/09/24 14:18	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.4*		*30 - 110*	*07/18/24 08:48*	*08/09/24 14:18*	*1*

Lab Sample ID: LCS 160-671237/2-A
Matrix: Water
Analysis Batch: 674436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671237

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	9.606		1.02	1.00	0.129	pCi/L	100	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*90.3*		*30 - 110*

Lab Sample ID: MB 160-671460/1-A
Matrix: Water
Analysis Batch: 674767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671460

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01208	U	0.0418	0.0419	1.00	0.0823	pCi/L	07/19/24 07:30	08/12/24 23:56	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*93.8*		*30 - 110*	*07/19/24 07:30*	*08/12/24 23:56*	*1*

Lab Sample ID: LCS 160-671460/2-A
Matrix: Water
Analysis Batch: 674767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671460

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	9.127		0.959	1.00	0.0990	pCi/L	95	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*93.8*		*30 - 110*

Lab Sample ID: 500-253560-5 DU
Matrix: Water
Analysis Batch: 674767

Client Sample ID: HEN_03R
Prep Type: Total/NA
Prep Batch: 671460

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-226	0.0912			0.1399		0.0752	1.00	0.0834	pCi/L			0.36	1

QC Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-253560-5 DU
Matrix: Water
Analysis Batch: 674767

Client Sample ID: HEN_03R
Prep Type: Total/NA
Prep Batch: 671460

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	83.9		30 - 110

Lab Sample ID: MB 160-671938/1-A
Matrix: Water
Analysis Batch: 674941

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671938

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03235	U	0.0481	0.0482	1.00	0.0826	pCi/L	07/23/24 08:14	08/14/24 07:54	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110	07/23/24 08:14	08/14/24 07:54	1

Lab Sample ID: LCS 160-671938/2-A
Matrix: Water
Analysis Batch: 674941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671938

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	8.917		0.950	1.00	0.106	pCi/L	93	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	86.8		30 - 110

Lab Sample ID: MB 160-674439/1-A
Matrix: Water
Analysis Batch: 677738

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674439

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01013	U	0.0355	0.0355	1.00	0.0830	pCi/L	08/09/24 07:54	09/03/24 20:19	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	99.8		30 - 110	08/09/24 07:54	09/03/24 20:19	1

Lab Sample ID: LCS 160-674439/2-A
Matrix: Water
Analysis Batch: 677738

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674439

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	8.901		0.932	1.00	0.0992	pCi/L	93	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.5		30 - 110

QC Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-253560-25 MS — **Client Sample ID: HEN_21R_MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 677738 — **Prep Batch: 674439**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.454		9.53	8.843		0.938	1.00	0.0898	pCi/L	88	60 - 140

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*89.7*		*30 - 110*

Lab Sample ID: 500-253560-25 MSD — **Client Sample ID: HEN_21R_MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 677738 — **Prep Batch: 674439**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.454		9.41	9.476		0.994	1.00	0.0864	pCi/L	96	60 - 140	0.33	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*88.5*		*30 - 110*

Lab Sample ID: MB 160-674443/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 677928 — **Prep Batch: 674443**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.01754	U	0.0406	0.0407	1.00	0.0931	pCi/L	08/09/24 08:06	09/03/24 20:26	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*101*		*30 - 110*	*08/09/24 08:06*	*09/03/24 20:26*	*1*

Lab Sample ID: LCS 160-674443/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 677928 — **Prep Batch: 674443**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226			9.58	7.362		0.785	1.00	0.0920	pCi/L	77	75 - 125

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*105*		*30 - 110*

Lab Sample ID: 500-253560-35 MS — **Client Sample ID: HEN_49_MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 677928 — **Prep Batch: 674443**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.136		9.53	7.561		0.804	1.00	0.0901	pCi/L	78	60 - 140

QC Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-253560-35 MS
Matrix: Water
Analysis Batch: 677928

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 674443

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	104		30 - 110

Lab Sample ID: 500-253560-35 MSD
Matrix: Water
Analysis Batch: 677928

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 674443

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.136		9.58	7.851		0.838	1.00	0.0924	pCi/L	81	60 - 140	0.18	1

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	97.5		30 - 110

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-671238/1-A
Matrix: Water
Analysis Batch: 672949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671238

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3731	U	0.441	0.442	1.00	0.726	pCi/L	07/18/24 08:52	07/30/24 12:38	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	80.4		30 - 110	07/18/24 08:52	07/30/24 12:38	1
Y Carrier	82.6		30 - 110	07/18/24 08:52	07/30/24 12:38	1

Lab Sample ID: LCS 160-671238/2-A
Matrix: Water
Analysis Batch: 672949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671238

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.72	10.05		1.40	1.00	0.590	pCi/L	115	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	90.3		30 - 110
Y Carrier	80.7		30 - 110

Lab Sample ID: MB 160-671461/1-A
Matrix: Water
Analysis Batch: 673116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671461

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4548	U	0.345	0.347	1.00	0.529	pCi/L	07/19/24 07:33	07/31/24 12:07	1

QC Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

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

Lab Sample ID: MB 160-671461/1-A
Matrix: Water
Analysis Batch: 673116

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671461

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	93.8		30 - 110	07/19/24 07:33	07/31/24 12:07	1
Y Carrier	84.1		30 - 110	07/19/24 07:33	07/31/24 12:07	1

Lab Sample ID: LCS 160-671461/2-A
Matrix: Water
Analysis Batch: 673116

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671461

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.72	10.74		1.40	1.00	0.472	pCi/L	123	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	93.8		30 - 110
Y Carrier	84.5		30 - 110

Lab Sample ID: 500-253560-5 DU
Matrix: Water
Analysis Batch: 673240

Client Sample ID: HEN_03R
Prep Type: Total/NA
Prep Batch: 671461

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Radium-228	0.0642	U		0.3732	U	0.405	1.00	0.658	pCi/L			0.44	1

Carrier	DU %Yield	DU Qualifier	Limits
Ba Carrier	83.9		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: MB 160-671939/1-A
Matrix: Water
Analysis Batch: 673560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 671939

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.06257	U	0.268	0.268	1.00	0.491	pCi/L	07/23/24 08:19	08/02/24 11:36	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.5		30 - 110	07/23/24 08:19	08/02/24 11:36	1
Y Carrier	79.3		30 - 110	07/23/24 08:19	08/02/24 11:36	1

Lab Sample ID: LCS 160-671939/2-A
Matrix: Water
Analysis Batch: 673560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671939

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.71	9.955		1.36	1.00	0.540	pCi/L	114	75 - 125		

QC Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

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

Lab Sample ID: LCS 160-671939/2-A
Matrix: Water
Analysis Batch: 673560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 671939

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	86.8		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: MB 160-674440/1-A
Matrix: Water
Analysis Batch: 676130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674440

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.06749	U	0.262	0.262	1.00	0.509	pCi/L	08/09/24 07:58	08/21/24 12:23	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	99.8		30 - 110	08/09/24 07:58	08/21/24 12:23	1
Y Carrier	84.9		30 - 110	08/09/24 07:58	08/21/24 12:23	1

Lab Sample ID: LCS 160-674440/2-A
Matrix: Water
Analysis Batch: 676130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674440

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.58	9.609		1.29	1.00	0.476	pCi/L	112	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	98.5		30 - 110
Y Carrier	85.2		30 - 110

Lab Sample ID: 500-253560-25 MS
Matrix: Water
Analysis Batch: 676130

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 674440

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.918		8.54	8.417		1.22	1.00	0.602	pCi/L	88	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	89.7		30 - 110
Y Carrier	83.7		30 - 110

Lab Sample ID: 500-253560-25 MSD
Matrix: Water
Analysis Batch: 676130

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA
Prep Batch: 674440

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.918		8.43	9.679		1.32	1.00	0.536	pCi/L	104	60 - 140	0.50	1

QC Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-253560-25 MSD
Matrix: Water
Analysis Batch: 676130

Client Sample ID: HEN_21R_MSD
Prep Type: Total/NA
Prep Batch: 674440

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	88.5		30 - 110
Y Carrier	86.0		30 - 110

Lab Sample ID: MB 160-674444/1-A
Matrix: Water
Analysis Batch: 675777

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 674444

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.6358		0.348	0.353	1.00	0.485	pCi/L	08/09/24 08:14	08/20/24 12:13	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	101		30 - 110	08/09/24 08:14	08/20/24 12:13	1
Y Carrier	74.4		30 - 110	08/09/24 08:14	08/20/24 12:13	1

Lab Sample ID: LCS 160-674444/2-A
Matrix: Water
Analysis Batch: 675777

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 674444

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.58	9.222		1.24	1.00	0.465	pCi/L	107	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	105		30 - 110
Y Carrier	78.1		30 - 110

Lab Sample ID: 500-253560-35 MS
Matrix: Water
Analysis Batch: 675777

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 674444

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	0.305	U	8.54	10.03		1.32	1.00	0.465	pCi/L	114	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	104		30 - 110
Y Carrier	77.8		30 - 110

Lab Sample ID: 500-253560-35 MSD
Matrix: Water
Analysis Batch: 675777

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 674444

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.305	U	8.58	10.56		1.40	1.00	0.596	pCi/L	119	60 - 140	0.20	1

QC Sample Results

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-253560-35 MSD
Matrix: Water
Analysis Batch: 675777

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 674444

Carrier	MSD %Yield	MSD Qualifier	Limits
Ba Carrier	97.5		30 - 110
Y Carrier	80.0		30 - 110

Lab Chronicle

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

Job ID: 500-253560-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_07
Date Collected: 07/15/24 15:20
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671237	MLT	EET SL	07/18/24 08:48
Total/NA	Analysis	903.0		1	674446	SWS	EET SL	08/09/24 14:41
Total/NA	Prep	PrecSep_0			671238	MLT	EET SL	07/18/24 08:52
Total/NA	Analysis	904.0		1	672930	SCB	EET SL	07/30/24 12:36
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_12
Date Collected: 07/15/24 15:45
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671237	MLT	EET SL	07/18/24 08:48
Total/NA	Analysis	903.0		1	674446	SWS	EET SL	08/09/24 14:41
Total/NA	Prep	PrecSep_0			671238	MLT	EET SL	07/18/24 08:52
Total/NA	Analysis	904.0		1	672930	SCB	EET SL	07/30/24 12:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_13
Date Collected: 07/15/24 16:35
Date Received: 07/16/24 13:05

Lab Sample ID: 500-253560-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671237	MLT	EET SL	07/18/24 08:48
Total/NA	Analysis	903.0		1	674446	SWS	EET SL	08/09/24 14:41
Total/NA	Prep	PrecSep_0			671238	MLT	EET SL	07/18/24 08:52
Total/NA	Analysis	904.0		1	672930	SCB	EET SL	07/30/24 12:32
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_03R
Date Collected: 07/16/24 09:53
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674767	SWS	EET SL	08/12/24 23:59
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673240	SWS	EET SL	07/31/24 12:21
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

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

Job ID: 500-253560-2
JHEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD
Date Collected: 07/16/24 09:53
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674767	SWS	EET SL	08/12/24 23:59
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673240	SWS	EET SL	07/31/24 12:22
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_08
Date Collected: 07/16/24 14:00
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	675246	SWS	EET SL	08/15/24 09:59
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_08&D
Date Collected: 07/16/24 15:46
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:08
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_16
Date Collected: 07/16/24 15:30
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16_FD
Date Collected: 07/16/24 15:40
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_18&D
Date Collected: 07/16/24 13:17
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:06
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_18#S
Date Collected: 07/16/24 12:06
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:07
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_45#S
Date Collected: 07/16/24 08:42
Date Received: 07/17/24 09:40

Lab Sample ID: 500-253560-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671460	MLT	EET SL	07/19/24 07:30
Total/NA	Analysis	903.0		1	674892	SCB	EET SL	08/13/24 07:38
Total/NA	Prep	PrecSep_0			671461	MLT	EET SL	07/19/24 07:33
Total/NA	Analysis	904.0		1	673239	SWS	EET SL	07/31/24 12:07
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_23
Date Collected: 07/18/24 09:45
Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671938	MLT	EET SL	07/23/24 08:14
Total/NA	Analysis	903.0		1	674941	SCB	EET SL	08/14/24 15:09
Total/NA	Prep	PrecSep_0			671939	MLT	EET SL	07/23/24 08:19
Total/NA	Analysis	904.0		1	673556	SCB	EET SL	08/02/24 11:35
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_51
Date Collected: 07/18/24 10:25
Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671938	MLT	EET SL	07/23/24 08:14
Total/NA	Analysis	903.0		1	674941	SCB	EET SL	08/14/24 15:10
Total/NA	Prep	PrecSep_0			671939	MLT	EET SL	07/23/24 08:19
Total/NA	Analysis	904.0		1	673556	SCB	EET SL	08/02/24 11:36
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: FB
Date Collected: 07/18/24 08:00
Date Received: 07/18/24 13:00

Lab Sample ID: 500-253560-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			671938	MLT	EET SL	07/23/24 08:14
Total/NA	Analysis	903.0		1	674941	SCB	EET SL	08/14/24 15:10
Total/NA	Prep	PrecSep_0			671939	MLT	EET SL	07/23/24 08:19
Total/NA	Analysis	904.0		1	673556	SCB	EET SL	08/02/24 11:36
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_17
Date Collected: 08/06/24 09:10
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:20
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

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

Job ID: 500-253560-2
HEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_21R
Date Collected: 08/06/24 13:15
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:20
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_22
Date Collected: 08/06/24 15:50
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:21
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_22&D
Date Collected: 08/06/24 15:15
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:21
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_27
Date Collected: 08/06/24 10:45
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:21
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_32
Date Collected: 08/06/24 10:00
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677738	SWS	EET SL	09/03/24 20:21
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_34
Date Collected: 08/06/24 09:10
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:24
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676130	SWS	EET SL	08/21/24 12:24
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_35
Date Collected: 08/06/24 11:35
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:24
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:25
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_35_FD
Date Collected: 08/06/24 11:35
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:24
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46
Date Collected: 08/06/24 09:55
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:24
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_47
Date Collected: 08/06/24 11:20
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:24
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_49
Date Collected: 08/06/24 14:20
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674443	BMW	EET SL	08/09/24 08:06
Total/NA	Analysis	903.0		1	677928	SCB	EET SL	09/03/24 20:26
Total/NA	Prep	PrecSep_0			674444	BMW	EET SL	08/09/24 08:14
Total/NA	Analysis	904.0		1	675777	CMM	EET SL	08/20/24 12:13
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_50
Date Collected: 08/06/24 15:35
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:25
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Lab Chronicle

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

Job ID: 500-253560-2
SDG: HEN_000_RAD

Client Sample ID: HEN_52
Date Collected: 08/06/24 12:05
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:25
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_54
Date Collected: 08/06/24 10:40
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:25
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_54_FD
Date Collected: 08/06/24 10:45
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:25
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

Client Sample ID: HEN_FB
Date Collected: 08/06/24 00:00
Date Received: 08/07/24 09:05

Lab Sample ID: 500-253560-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			674439	BMW	EET SL	08/09/24 07:54
Total/NA	Analysis	903.0		1	677741	SCB	EET SL	09/03/24 20:25
Total/NA	Prep	PrecSep_0			674440	BMW	EET SL	08/09/24 07:58
Total/NA	Analysis	904.0		1	676084	FLC	EET SL	08/21/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	678510	CAH	EET SL	09/06/24 12:16

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: HEN-24Q3

Job ID: 500-253560-2
SDG: HEN_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

CHAIN-OF-CUSTODY / Analytical Request Document

500-253560

HEN-257-803

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

Page 1 of 3

Section A Required Client Information		Section B Required Project Information.		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone:	(217) 753-8911 Fax	Project Name:	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

500-253560 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	~~HEN_02~~																							X			A		~~SHORT~~ HOLD - NO2
2	~~HEN_03R~~																	X				X		X		X	B		~~SHORT~~ HOLD - NO2
3	~~HEN_09R_FD~~																	X				X		X		X	B		~~SHORT~~ HOLD - NO2
4	~~HEN_05&DR~~																X				X						E		~~SHORT~~ HOLD - NO2
5	~~HEN_05IR~~																X				X						E		~~SHORT~~ HOLD - NO2
1	HEN_07			7-15-24	1520												X	X	X			X	X		X		X	B		SHORT HOLD - NO2
7	~~HEN_08~~																X	X	X		X	X	X		X		X	C		~~SHORT~~ HOLD - NO2
8	~~HEN_08&D~~																X	X	X		X	X	X		X		X	C		~~SHORT~~ HOLD - NO2
9	~~HEN_10~~																				X				X			D		~~SHORT~~ HOLD - NO2
2	HEN_12			7-15-24	1545														X		X		X				X	F		SHORT HOLD - NO2
3	HEN_13			7-15-24	1635														X		X		X				X	F		SHORT HOLD - NO2
12	~~HEN_16~~																X		X				X				X	G		
13	~~HEN_16_FD~~																X		X				X				X	G		
14	~~HEN_17~~																X		X				X				X	G		
15	~~HEN_18&D~~																	X				X			X	X	B		~~SHORT~~ HOLD - NO2
16	~~HEN_18#3~~																	X				X			X	X	B		~~SHORT~~ HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz A3E	7-15-24	1700	Tammy Kennedy EETA	7/16/24	1105	
	Tammy Kennedy EETA	7/16/24	1105	Thai Loan	7/16/24	1305	

4L-24Q

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 7-15-24

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

500-253500

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information.		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention	Brian Voelker
Address	13498 E 800th St	Copy To	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference:	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

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

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analysis Test	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	~~HEN_21R~~																				X			X		X	X	H		MS/MSD
2	~~HEN_22~~																				X			X		X	X	H		
3	~~HEN_22&D~~																				X			X		X	X	H		
4	~~HEN_23~~																				X			X		X	X	H		
5	~~HEN_25~~																				X							J		~~DTW Only~~
6	~~HEN_26~~																				X							J		~~DTW Only~~
7	~~HEN_27~~																				X				X		X	X	H		
8	~~HEN_30~~																				X							J		~~DTW Only~~
9	~~HEN_31~~																				X							J		~~DTW Only~~
10	~~HEN_32~~																				X				X		X	X	H		
11	~~HEN_33~~																				X							J		~~DTW Only~~
12	~~HEN_34~~																				X				X		X	X	H		
13	~~HEN_35~~																				X				X		X	X	H		
14	~~HEN_35_FD~~																				X				X		X	X	H		
15	~~HEN_36~~																				X							J		~~DTW Only~~
16	~~HEN_40#S~~																	X				X							E		~~SHORT HOLD - NO2~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
HEN-24Q3 Rev 1	Lorne Filewich EETA	7-15-24	1700	[signature] EETA	7/16/24	11:05				
	[signature] EETA	7/16/24	13:05	[signature]	7/16/24	1305				

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER	Lorne Filewich	
SIGNATURE of SAMPLER	[signature]	DATE Signed (MM/DD/YY) 7-15-24

CHAIN-OF-CUSTODY / Analytical Request Document

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

500-253560

HEN-24Q3

Page 3 of 3

Section A Required Client Information.

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT	10 day

Section B Required Project Information.

Report To:	Brian Voelker
Copy To:	Sam Davies samantha davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information.

Attention.	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D
1	~~HEN_45#S~~																	X				X			X		X	B		SHORT HOLD - NO2
2	~~HEN_46~~																		X				X				X	G		
3	~~HEN_47~~																		X				X				X	G		
4	~~HEN_48R~~																X											I		
5	~~HEN_49~~																			X				X		X	X	H		MS/MSD
6	~~HEN_50~~																			X				X		X	X	H		
7	~~HEN_51~~																			X				X		X	X	H		
8	~~HEN_52~~																		X				X				X	G		
9	~~HEN_54~~																		X				X				X	G		
10	~~HEN_54_FD~~																		X				X				X	G		
11	~~HEN_55~~																		X				X					J		DTW Only
12	HEN_YSG_ILRIVER																X	X	X	X	X	X	X	X	X	X		J		DTW Only
13	~~HEN_XSG01~~																		X				X					J		DTW Only
14	~~FB~~																				X	X			X		X	C		SHORT HOLD - NO2
15	~~TB1~~																								X			A		BTEX Only
16	~~TB2~~																								X			A		BTEX Only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	7-15-24	1700	EETA	7/16/24	11:05	
	EETA	7/19/24	13:05		7/16/24	1305	

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	Lorne T. Filewicz					
SIGNATURE of SAMPLER	Lorne Filewicz	DATE Signed (MM/DD/YY) 7-15-24				

500-253560

CHAIN-OF-CUSTODY / Analytical Request Document

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500-253560 COC

Page 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	HEN_02			7-16-24	0825																			X			A		SHORT HOLD - NO2
2	HEN_03R			7-16-24	0953													X				X		X		X	B		SHORT HOLD - NO2
3	HEN_03R_FD			7-16-24	0953													X				X		X		X	B		SHORT HOLD - NO2
4	HEN_05&DR			7-16-24	1215												X				X						E		SHORT HOLD - NO2
5	HEN_05IR			7-16-24	1120												X				X						E		SHORT HOLD - NO2
~~6~~	~~HEN_07~~																~~X~~	~~X~~	~~X~~			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~B~~		~~SHORT HOLD - NO2~~
7	HEN_08			7-16-24	1400												X	X	X		X	X	X	X		X	C		SHORT HOLD - NO2
8	HEN_08&D			7-16-24	1546												X	X	X		X	X	X	X		X	C		SHORT HOLD - NO2
9	HEN_10			7-16-24	0945																X			X			D		SHORT HOLD - NO2
~~10~~	~~HEN_12~~																		~~X~~		~~X~~		~~X~~			~~X~~	~~F~~		~~SHORT HOLD - NO2~~
~~11~~	~~HEN_13~~																		~~X~~		~~X~~		~~X~~			~~X~~	~~F~~		~~SHORT HOLD - NO2~~
12	HEN_16			7-16-24	1530												X		X				X			X	G		
13	HEN_16_FD			7-16-24	1540												X		X				X			X	G		
~~14~~	~~HEN_17~~																~~X~~		~~X~~				~~X~~			~~X~~	~~G~~		
15	HEN_18&D			7-16-24	1317													X				X		X		X	B		SHORT HOLD - NO2
16	HEN_18#S			7-16-24	1206													X				X		X		X	B		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	7/16/24	1546	[signature]	7/17/24	0940	

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	Lorne Filewicz					
SIGNATURE of SAMPLER	Lorne Filewicz	DATE Signed (MM/DD/YY) 7/16/24				

-0.1 → 0.2 1.0 → 0.9 3.2 → 3.1, 1.0 → 0.9 0.9 → 0.8, 1.7 → 1.6

500 - 253500

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information.		Section B Required Project Information.		Section C Invoice Information.	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention.	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	~~HEN_21R~~																			X				X		X	X	H		~~MS/MSD~~
2	~~HEN_22~~																			X				X		X	X	H		
3	~~HEN_22&D~~																			X				X		X	X	H		
4	~~HEN_23~~																			X				X		X	X	H		
5	~~HEN_25~~																			X								J		~~DTW Only~~
6	~~HEN_26~~																			X								J		~~DTW Only~~
7	~~HEN_27~~																			X				X		X	X	H		
8	~~HEN_30~~																			X								J		~~DTW Only~~
9	~~HEN_31~~																			X								J		DTW Only
10	~~HEN_32~~																			X				X		X	X	H		
11	~~HEN_33~~																			X								J		~~DTW Only~~
12	~~HEN_34~~																			X				X		X	X	H		
13	~~HEN_35~~																			X				X		X	X	H		
14	~~HEN_35_FD~~																			X				X		X	X	H		
15	~~HEN_36~~																			X								J		~~DTW Only~~
16	HEN_40#S			7/16/24	1443												X				X							E		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	7/16/24	1540		7/17/24	0940	

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	Lorne Filewicz					
SIGNATURE of SAMPLER	Lorne Filewicz	DATE Signed (MM/DD/YY) 7 16 24				

500-253540
HEN-257-803

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 3 of 3

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax:
Requested Due Date/TAT	10 day

Section B Required Project Information.

Report To:	Brian Voelker
Copy To:	Sam Davies samantha davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
17	1 HEN_45#S			7-16-24	0842													X				X			X		X	B		SHORT HOLD - NO2
	2 HEN_46																		X				X				X	G		
	3 HEN_47																		X				X				X	G		
	4 HEN_48R																X											I		
	5 HEN_49																			X				X		X	X	H		MS/MSD
	6 HEN_50																			X				X		X	X	H		
	7 HEN_51																			X				X		X	X	H		
	8 HEN_52																		X				X				X	G		
	9 HEN_54																		X				X				X	G		
	10 HEN_54_FD																		X				X				X	G		
	11 HEN_55																		X				X					J		DTW Only
	12 HEN_YSG_ILRIVER																X	X	X	X	X	X	X	X	X	X		J		DTW Only
	13 HEN_XSG01																		X				X					J		DTW Only
18	14 FB																				X	X			X		X	C		SHORT HOLD - NO2
	15 TB1			07-16-24	00:00																				X			A		BTEX Only
	16 TB2			dbn 082224																					X			A		BTEX Only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Fiberwicz	7/16/24	1540		7/17/24	0940	

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	Lorne Fiberwicz					
SIGNATURE of SAMPLER	Lorne Fiberwicz	DATE Signed (MM/DD/YY) 7 16 24				

500-253560

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 3

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name:	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference.	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

500-253560 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

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

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_02																							X			A		SHORT HOLD - NO2
2	HEN_03R																	X				X		X		X	B		SHORT HOLD - NO2
3	HEN_03R_FD																	X				X		X		X	B		SHORT HOLD - NO2
4	HEN_05&DR																X				X						E		SHORT HOLD - NO2
5	HEN_05IR																X				X						E		SHORT HOLD - NO2
6	HEN_07																X	X	X			X	X		X		B		SHORT HOLD - NO2
7	HEN_08																X	X	X		X	X	X		X		C		SHORT HOLD - NO2
8	HEN_08&D																X	X	X		X	X	X		X		C		SHORT HOLD - NO2
9	HEN_10																X								X		D		SHORT HOLD - NO2
10	HEN_12																X		X		X		X				F		SHORT HOLD - NO2
11	HEN_13																X		X		X		X				F		SHORT HOLD - NO2
12	HEN_16																	X				X					G		
13	HEN_16_FD																	X				X					G		
14	HEN_17																	X				X					G		
15	HEN_18&D																		X			X			X		B		SHORT HOLD - NO2
16	HEN_18#S																		X			X			X		B		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	7-18-24	1300	[illegible]	7/18/24	1300	

6.1 → 5.7

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER	Lorne Filewicz		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER	Lorne Filewicz	DATE Signed (MM/DD/YY) 7.18.24				

500-253900

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To.	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference.	
Phone:	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	HEN_21R																			X				X		X	X	H		MS/MSD
2	HEN_22																			X				X		X	X	H		
3	HEN_22&D																			X				X		X	X	H		
4	HEN_23			7-18-24	0945															X				X		X	X	H		
5	HEN_25																			X								J		DTW Only
6	HEN_26																			X								J		DTW Only
7	HEN_27																			X				X		X	X	H		
8	HEN_30																			X								J		DTW Only
9	HEN_31																			X								J		DTW Only
10	HEN_32																			X				X		X	X	H		
11	HEN_33																			X								J		DTW Only
12	HEN_34																			X				X		X	X	H		
13	HEN_35																			X				X		X	X	H		
14	HEN_35_FD																			X				X		X	X	H		
15	HEN_36																			X								J		DTW Only
16	HEN_40#S																X				X							E		SHORT HOLD - NO2

19

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Fitzwater	7-19-24	1300	[illegible]	7/18/24	1300	

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	Sam Fitzwater					
SIGNATURE of SAMPLER	Lorne Fitzwater	DATE Signed (MM/DD/YY) 7/18/24				

$500-25360

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 3 of 3

Section A Required Client Information.

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To:	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax.
Requested Due Date/TAT	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information:

Attention.	Brian Voelker
Company Name:	Vistra Corp
Address	see Section A
Quote Reference	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE. IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_45#S																	X				X			X		X	B		SHORT HOLD - NO2
2	HEN_46																		X				X				X	G		
3	HEN_47																		X				X				X	G		
20 4	HEN_48R			7-18-24	0905												X											I		
5	HEN_49																			X				X		X	X	H		MS/MSD
6	HEN_50																			X				X		X	X	H		
21 7	HEN_51			7-18-24	1025															X				X		X	X	H		
8	HEN_52																		X				X				X	G		
9	HEN_54																		X				X				X	G		
10	HEN_54_FD																		X				X				X	G		
11	HEN_55																		X				X					J		DTW Only
12	HEN_YSG_ILRIVER																X	X	X	X	X	X	X	X	X	X		J		DTW Only
13	HEN_XSG01																		X				X					J		DTW Only
22 14	FB			7-18-24	0800																X	X			X		X	C		SHORT HOLD - NO2
15	TB1			07-18-24	00:00																				X			A		BTEX Only
23 16	TB2			dbn 082224																					X			A		BTEX Only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewich	7-18-24	1300	[illegible]	7/18/24	1300	

SAMPLER NAME AND SIGNATURE				
PRINT Name of SAMPLER	Lorne Filewich			
SIGNATURE of SAMPLER	Lorne Filewich	DATE Signed (MM/DD/YY)	7-18-24	

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

500-253560

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 3

Section A Required Client Information.

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To.	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax.
Requested Due Date/TAT	10 day

Section B Required Project Information

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information.

Attention.	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference	
Project Manager:	
Profile #:	

500-253560 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

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

Valid Matrix Codes

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	HEN_02																								X			A		SHORT HOLD - NO2
2	HEN_03R																		X				X		X		X	B		SHORT HOLD - NO2
3	~~HEN_03R_FD~~																		X				X		X		X	B		SHORT HOLD - NO2
4	~~HEN_05&DR~~																	X				X						E		SHORT HOLD - NO2
5	~~HEN_05IR~~																	X				X						E		SHORT HOLD - NO2
6	~~HEN_07~~																	X	X	X			X	X		X		X	B		SHORT HOLD - NO2
7	~~HEN_08~~																	X	X	X		X	X	X		X		X	C		SHORT HOLD - NO2
8	~~HEN_08&D~~																	X	X	X		X	X	X		X		X	C		SHORT HOLD - NO2
9	~~HEN_10~~																					X				X			D		SHORT HOLD - NO2
10	~~HEN_12~~																			X		X		X				X	F		SHORT HOLD - NO2
11	~~HEN_13~~																			X		X		X				X	F		SHORT HOLD - NO2
12	~~HEN_16~~																	X		X				X				X	G		
13	~~HEN_16_FD~~																	X		X				X				X	G		
14	HEN_17			8-6-24	0910													X		X				X				X	G		
15	~~HEN_18&D~~																		X				X		X		X	B		SHORT HOLD - NO2
16	~~HEN_18#S~~																		X				X		X		X	B		SHORT HOLD - NO2

24

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	8-7-24	0905	[signature]	8/7/24	0905	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 8-6-24

58→57, 1.8→1.7, 58→57.2
62→59, 4.3→4.2

~~58→57~~

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

CHAIN-OF-CUSTODY / Analytical Request Document

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500-265560 HEN-357808

Page 2 of 3

Section A Required Client Information:		Section B Required Project Information.		Section C Invoice Information.	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention	Brian Voelker
Address	13498 E 800th St	Copy To.	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

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

SAMPLE ID
(A-Z, 0-9 /)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I D
25 1	HEN_21R			8-6-24	1315																X				X		X	X	H		MS/MSD
26 2	HEN_22			8-6-24	1550																X				X		X	X	H		
27 3	HEN_22&D			8-6-24	1515																X				X		X	X	H		
4	HEN_23																				X				X		X	X	H		
5	~~HEN_25~~																				X								J		DTW Only
6	~~HEN_26~~																				X								J		DTW Only
28 7	HEN_27			8-6-24	1045																X				X		X	X	H		
8	~~HEN_30~~																				X								J		DTW Only
9	~~HEN_31~~																				X								J		DTW Only
29 10	HEN_32			8-6-24	1000																X				X		X	X	H		
11	~~HEN_33~~																				X								J		DTW Only
30 12	HEN_34			8-6-24	0910																X				X		X	X	H		
31 13	HEN_35			8-6-24	1135																X				X		X	X	H		
32 14	HEN_35_FD			8-6-24	1135																X				X		X	X	H		
15	~~HEN_36~~																				X								J		DTW Only
16	~~HEN_40#S~~																	X				X							E		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1	Lorne Filewicz	8-7-24	0905		8/7/24	0905	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 8-7-24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

500-223560

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 3 of 3

Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olte	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-257-801	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN-000-RAD	HEN-000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	~~HEN_45#S~~																		X				X			X		X	B		SHORT HOLD - NO2
33 2	HEN_46			8-6-24	0955															X				X				X	G		
34 3	HEN_47			8-6-24	1120															X				X				X	G		
4	~~HEN_48R~~																X												I		
35 5	HEN_49			8-6-24	1420																X				X		X	X	H		MS/MSD
36 6	HEN_50			8-6-24	1535																X				X		X	X	H		
7	~~HEN_51~~																				X				X		X	X	H		
37 8	HEN_52			8-6-24	1205															X				X				X	G		
38 9	HEN_54			8-6-24	1040															X				X				X	G		
39 10	HEN_54_FD			8-6-24	1045															X				X				X	G		
11	~~HEN_55~~																			X				X					J		DTW Only
12	~~HEN_YSG_ILRIVER~~																X	X	X	X	X	X	X	X	X	X	X		J		DTW Only
13	~~HEN_XSG01~~																			X				X					J		DTW Only
40 14	~~HEN_FB~~			08-06-24 dbn 082224	00:00																X				X		X	X	H		
15	~~HEN_TB1~~																									X			A		BTEX Only
16	~~HEN_TB2~~																									X			A		BTEX Only

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q3 Rev 1		8-7-24	0905		8/7/24	0905	

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Lorne Tilewitz		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 8-7-24				

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-190563.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-253560-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 8/14/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q3	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_07 (500-253560-1)	7/15/24	15:20 Central		Water			X	X	X	2	
HEN_12 (500-253560-2)	7/15/24	15:45 Central		Water			X	X	X	2	
HEN_13 (500-253560-3)	7/15/24	16:35 Central		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Shri Soot	7/16/24 1530		Richard Thornley	JUL 17 2024 0920	FTA STL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-190607.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-253560-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 8/14/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q3	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_03R (500-253560-5)	7/16/24	09:53 Central		Water			X	X	X	2	
HEN_03R_FD (500-253560-6)	7/16/24	09:53 Central		Water			X	X	X	2	
HEN_08 (500-253560-9)	7/16/24	14:00 Central		Water			X	X	X	2	
HEN_08&D (500-253560-10)	7/16/24	15:46 Central		Water			X	X	X	2	
HEN_16 (500-253560-12)	7/16/24	15:30 Central		Water			X	X	X	2	
HEN_16_FD (500-253560-13)	7/16/24	15:40 Central		Water			X	X	X	2	
HEN_18&D (500-253560-14)	7/16/24	13:17 Central		Water			X	X	X	2	
HEN_18#S (500-253560-15)	7/16/24	12:06 Central		Water			X	X	X	2	
HEN_45#S (500-253560-17)	7/16/24	08:42 Central		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	7/17/24 1630				
2	Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: JUL 18 2024 0855	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-190665.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-253560-2
Address: 13715 Rider Trail North, ,	Due Date Requested: 8/19/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q3	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_23 (500-253560-19)	7/18/24	09:45 Central		Water			X	X	X	2	
HEN_51 (500-253560-21)	7/18/24	10:25 Central		Water			X	X	X	2	
FB (500-253560-22)	7/18/24	08:00 Central		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Chris Scott	7/18/24 1530		Richard Thornley	JUL 19 2024 1000	GTASTL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-191394.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 1 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-253560-1
Address: 13715 Rider Trail North,	Due Date Requested: 7/31/2024			Preservation Codes:
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q3	Project #: 50023030			Other:
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_17 (500-253560-24)	8/6/24	09:10 Central		Water			X	X	X	2	
HEN_21R (500-253560-25)	8/6/24	13:15 Central		Water			X	X	X	2	
HEN_21R_MS (500-253560-25MS)	8/6/24	13:15 Central	MS	Water			X	X	X	2	
HEN_21R_MSD (500-253560-25MSD)	8/6/24	13:15 Central	MSD	Water			X	X	X	2	
HEN_22 (500-253560-26)	8/6/24	15:50 Central		Water			X	X	X	2	
HEN_22&D (500-253560-27)	8/6/24	15:15 Central		Water			X	X	X	2	
HEN_27 (500-253560-28)	8/6/24	10:45 Central		Water			X	X	X	2	
HEN_32 (500-253560-29)	8/6/24	10:00 Central		Water			X	X	X	2	
HEN_34 (500-253560-30)	8/6/24	09:10 Central		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Allie Loots	8/7/24 1600		M. Pinette	AUG 0 8 2024 0820	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-191394.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 2 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-253560-1
Address: 13715 Rider Trail North, ,	Due Date Requested: 7/31/2024			
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q3	Project #: 50023030			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: -

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_35 (500-253560-31)	8/6/24	11:35 Central		Water			X	X	X	2	
HEN_35_FD (500-253560-32)	8/6/24	11:35 Central		Water			X	X	X	2	
HEN_46 (500-253560-33)	8/6/24	09:55 Central		Water			X	X	X	2	
HEN_47 (500-253560-34)	8/6/24	11:20 Central		Water			X	X	X	2	
HEN_49 (500-253560-35)	8/6/24	14:20 Central		Water			X	X	X	2	
HEN_49_MS (500-253560-35MS)	8/6/24	14:20 Central	MS	Water			X	X	X	2	
HEN_49_MSD (500-253560-35MSD)	8/6/24	14:20 Central	MSD	Water			X	X	X	2	
HEN_50 (500-253560-36)	8/6/24	15:35 Central		Water			X	X	X	2	
HEN_52 (500-253560-37)	8/6/24	12:05 Central		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Allison Scott	Date/Time: 8/7/24 1600	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: AUG 0 8 2024 0820	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803
APPENDIX A.

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Nelson, Dirk	Carrier Tracking No(s):	COC No: 500-191394.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Dirk.Nelson@et.eurofinsus.com	State of Origin: Illinois	Page: Page 3 of 3
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - Illinois		Job #: 500-253560-1
Address: 13715 Rider Trail North,	Due Date Requested: 7/31/2024			Preservation Codes:
City: Earth City	TAT Requested (days):			
State, Zip: MO, 63045				
Phone: 314-298-8566(Tel) 314-298-8757(Fax)	PO #:			
Email:	WO #:			
Project Name: HEN-24Q3	Project #: 50023030			
Site:	SSOW#:			Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	903.0/PrecSep_21 BB	904.0/PrecSep_0 BB	Ra226_228GFPC_P/ BB	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
HEN_54 (500-253560-38)	8/6/24	10:40 Central		Water			X	X	X	2	
HEN_54_FD (500-253560-39)	8/6/24	10:45 Central		Water			X	X	X	2	
HEN_FB (500-253560-40)	8/6/24	Central		Water			X	X	X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification Unconfirmed	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by:	Date: Time: Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Phil Scott	8/7/24 1600				
Relinquished by:	Date/Time:	Company	Received by: M. Pinette	Date/Time: AUG 0 8 2024 0820	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 04/02/2024

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-253560-2
SDG Number: HEN_000_RAD

Login Number: 253560
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.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	
Cooler Temperature is recorded.	True	4.0,-0.2,0.9,3.1,0.9,0.8,1.6,5.7,11.8,12.7,11.8,9.1 ,11.3,5.7,1.7,5.7,5.9,4.2
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").	False	
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: 500-253560-2
SDG Number: HEN_000_RAD

Login Number: 253560
List Number: 3
Creator: Thornley, Richard W

List Source: Eurofins St. Louis
List Creation: 07/17/24 01:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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: 500-253560-2
SDG Number: HEN_000_RAD

Login Number: 253560
List Number: 5
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 07/18/24 11:38 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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: 500-253560-2
SDG Number: HEN_000_RAD

Login Number: 253560
List Number: 7
Creator: Thornley, Richard W

List Source: Eurofins St. Louis
List Creation: 07/19/24 03:53 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: 500-253560-2
SDG Number: HEN_000_RAD

Login Number: 253560
List Number: 8
Creator: Pinette, Meadow L

List Source: Eurofins St. Louis
List Creation: 08/08/24 12:06 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	

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Job ID: 500-253560-2
JHEN-257803
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)						
Lab Sample ID	Client Sample ID	Ba (30-110)						
500-253560-1	HEN_07	93.3						
500-253560-2	HEN_12	93.5						
500-253560-3	HEN_13	92.8						
500-253560-5	HEN_03R	90.6						
500-253560-5 DU	HEN_03R	83.9						
500-253560-6	HEN_03R_FD	91.8						
500-253560-9	HEN_08	88.3						
500-253560-10	HEN_08&D	88.3						
500-253560-12	HEN_16	83.6						
500-253560-13	HEN_16_FD	85.4						
500-253560-14	HEN_18&D	87.6						
500-253560-15	HEN_18#S	83.9						
500-253560-17	HEN_45#S	87.6						
500-253560-19	HEN_23	97.3						
500-253560-21	HEN_51	95.0						
500-253560-22	FB	94.3						
500-253560-24	HEN_17	93.6						
500-253560-25	HEN_21R	87.7						
500-253560-25 MS	HEN_21R_MS	89.7						
500-253560-25 MSD	HEN_21R_MSD	88.5						
500-253560-26	HEN_22	93.1						
500-253560-27	HEN_22&D	95.3						
500-253560-28	HEN_27	91.4						
500-253560-29	HEN_32	98.3						
500-253560-30	HEN_34	88.7						
500-253560-31	HEN_35	94.3						
500-253560-32	HEN_35_FD	97.8						
500-253560-33	HEN_46	92.6						
500-253560-34	HEN_47	91.9						
500-253560-35	HEN_49	91.4						
500-253560-35 MS	HEN_49_MS	104						
500-253560-35 MSD	HEN_49_MSD	97.5						
500-253560-36	HEN_50	90.4						
500-253560-37	HEN_52	92.4						
500-253560-38	HEN_54	91.2						
500-253560-39	HEN_54_FD	87.7						
500-253560-40	HEN_FB	89.7						
LCS 160-671237/2-A	Lab Control Sample	90.3						
LCS 160-671460/2-A	Lab Control Sample	93.8						
LCS 160-671938/2-A	Lab Control Sample	86.8						
LCS 160-674439/2-A	Lab Control Sample	98.5						
LCS 160-674443/2-A	Lab Control Sample	105						
MB 160-671237/1-A	Method Blank	80.4						
MB 160-671460/1-A	Method Blank	93.8						
MB 160-671938/1-A	Method Blank	94.5						
MB 160-674439/1-A	Method Blank	99.8						
MB 160-674443/1-A	Method Blank	101						

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Job ID: 500-253560-2
JHEN-257803
SDG: HEN_000_RAD

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-253560-1	HEN_07	93.3	78.9
500-253560-2	HEN_12	93.5	80.7
500-253560-3	HEN_13	92.8	83.4
500-253560-5	HEN_03R	90.6	83.4
500-253560-5 DU	HEN_03R	83.9	82.2
500-253560-6	HEN_03R_FD	91.8	85.2
500-253560-9	HEN_08	88.3	85.2
500-253560-10	HEN_08&D	88.3	84.1
500-253560-12	HEN_16	83.6	84.9
500-253560-13	HEN_16_FD	85.4	84.9
500-253560-14	HEN_18&D	87.6	84.5
500-253560-15	HEN_18#S	83.9	83.4
500-253560-17	HEN_45#S	87.6	86.7
500-253560-19	HEN_23	97.3	86.4
500-253560-21	HEN_51	95.0	82.2
500-253560-22	FB	94.3	85.6
500-253560-24	HEN_17	93.6	84.1
500-253560-25	HEN_21R	87.7	84.9
500-253560-25 MS	HEN_21R_MS	89.7	83.7
500-253560-25 MSD	HEN_21R_MSD	88.5	86.0
500-253560-26	HEN_22	93.1	83.0
500-253560-27	HEN_22&D	95.3	85.6
500-253560-28	HEN_27	91.4	83.7
500-253560-29	HEN_32	98.3	83.7
500-253560-30	HEN_34	88.7	86.7
500-253560-31	HEN_35	94.3	88.6
500-253560-32	HEN_35_FD	97.8	85.2
500-253560-33	HEN_46	92.6	88.2
500-253560-34	HEN_47	91.9	83.4
500-253560-35	HEN_49	91.4	73.6
500-253560-35 MS	HEN_49_MS	104	77.8
500-253560-35 MSD	HEN_49_MSD	97.5	80.0
500-253560-36	HEN_50	90.4	84.5
500-253560-37	HEN_52	92.4	86.4
500-253560-38	HEN_54	91.2	87.9
500-253560-39	HEN_54_FD	87.7	89.0
500-253560-40	HEN_FB	89.7	84.1
LCS 160-671238/2-A	Lab Control Sample	90.3	80.7
LCS 160-671461/2-A	Lab Control Sample	93.8	84.5
LCS 160-671939/2-A	Lab Control Sample	86.8	82.2
LCS 160-674440/2-A	Lab Control Sample	98.5	85.2
LCS 160-674444/2-A	Lab Control Sample	105	78.1
MB 160-671238/1-A	Method Blank	80.4	82.6
MB 160-671461/1-A	Method Blank	93.8	84.1
MB 160-671939/1-A	Method Blank	94.5	79.3
MB 160-674440/1-A	Method Blank	99.8	84.9
MB 160-674444/1-A	Method Blank	101	74.4

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q3

Lab ID: 500-253560-2
SDG: HEN_000_RAD

Y = Y Carrier

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701

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JOB DESCRIPTION

HEN-24Q4
HEN_257_803

JOB NUMBER

500-258038-7

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

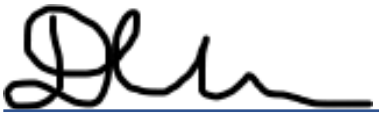
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Job Notes

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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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Job ID: 500-258038-7 Eurofins Chicago

Job Narrative
500-258038-7

Receipt
The samples were received on 10/08/24 11:17. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 13 coolers at receipt time were 1.5º C, 1.5º C, 3.2º C, 3.5º C, 3.8º C, 4.0º C, 4.2º C, 4.9º C, 5.0º C, 5.2º C, 5.3º C, 5.9º C and 13.8º C.

Receipt Exceptions
The following samples were received at the laboratory at 13.8 C & 5.9 C.: HEN_07 (500-258038-33), HEN_08 (500-258038-34), HEN_52 (500-258038-35), HEN_54 (500-258038-36), HEN_54_FD (500-258038-37) and HEN_FB (500-258038-38). 13.8 C is outside the required temperature criteria of < 6 C. The samples are considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

The Chain-of-Custody (COC) was incomplete as received. The COC is missing the Sample Date. Login sample dates were taken from the bottles, added to the COC and verified using the well development forms. Affected samples: HEN_05&DR (500-258038-4), HEN_05!R (500-258038-5), HEN_08&D (500-258038-6), HEN_12 (500-258038-7), HEN_13 (500-258038-8), HEN_18&D (500-258038-9), HEN_18#S (500-258038-10), HEN_21R (500-258038-11), HEN_21R_MS (500-258038-11[MS]), HEN_21R-MSD (500-258038-11[MSD]), HEN_27 (500-258038-12), HEN_32 (500-258038-13), HEN_34 (500-258038-14), HEN_35 (500-258038-15), HEN_35_FD (500-258038-16) and HEN_40#S (500-258038-17)

Method Field Sampling: Depth to water was not measured because water level was below the top of the pump for the following samples: HEN_12 (500-258038-7).

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 2320B: The method blank for analytical batch 500-791737 contained Alkalinity 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.

Method 300.0: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 500-790938 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 300.0: The method blank for analytical batch 500-791383 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0: The method blank for analytical batch 500-791804 contained Chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_08&D — Lab Sample ID: 500-258038-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.014		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.093		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.093	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00039	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	170		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0020		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00032	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	49		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	3.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	180		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	240	B	20	2.3	mg/L	20		300.0	Total/NA
Sulfate	120		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	460	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.10		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	55.09				ft	1		Field Sampling	Total/NA
Field pH	6.65				SU	1		Field Sampling	Total/NA
Field Temperature	13.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	123.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.58				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1675				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.33				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_12 — Lab Sample ID: 500-258038-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0090		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00023	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.058		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.13	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	77		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	29		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.014		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.2		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	47		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	74		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	61		5.0	1.0	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_12 (Continued) — Lab Sample ID: 500-258038-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bicarbonate Alkalinity as CaCO3	220	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	470		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.22		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Field pH	7.24				SU	1		Field Sampling	Total/NA
Field Temperature	19.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	55.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.74				mg/L	1		Field Sampling	Total/NA
Specific Conductance	871				umhos/cm	1		Field Sampling	Total/NA
Turbidity	2.79				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_13 — Lab Sample ID: 500-258038-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.011		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00037	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.044		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.17	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	80		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0011	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Magnesium	31		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.011		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.1		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	44		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	66		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	56		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	230	B	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	440		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.19		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	52.21				ft	1		Field Sampling	Total/NA
Field pH	7.30				SU	1		Field Sampling	Total/NA
Field Temperature	18.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	57.4				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.37				mg/L	1		Field Sampling	Total/NA
Specific Conductance	865				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.06				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16 — Lab Sample ID: 500-258038-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0056		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.072		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.14	B	0.050	0.013	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_16 (Continued) — Lab Sample ID: 500-258038-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	82		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	27		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0064		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	3.9		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	50		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	70		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	62		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240		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	0.21		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	55.15				ft	1		Field Sampling	Total/NA
Field pH	6.99				SU	1		Field Sampling	Total/NA
Field Temperature	21.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	130.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.06				mg/L	1		Field Sampling	Total/NA
Specific Conductance	736				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.24				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_16_FD — Lab Sample ID: 500-258038-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0064		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.072		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.13	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	83		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	27		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0063		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.0		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	51		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	72		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	63		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	480		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.21		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	55.15				ft	1		Field Sampling	Total/NA
Field pH	6.99				SU	1		Field Sampling	Total/NA
Field Temperature	21.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	130.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.06				mg/L	1		Field Sampling	Total/NA
Specific Conductance	736				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.24				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_17 — Lab Sample ID: 500-258038-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0066		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.086		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.13	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	74		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	28		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0043	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.5		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	61		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	89		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	70		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	220		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	470		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.23		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	56.30				ft	1		Field Sampling	Total/NA
Field pH	7.04				SU	1		Field Sampling	Total/NA
Field Temperature	22.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	134.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	4.98				mg/L	1		Field Sampling	Total/NA
Specific Conductance	762				umhos/cm	1		Field Sampling	Total/NA
Turbidity	92.96				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_46 — Lab Sample ID: 500-258038-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0076		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.074		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.14	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	81		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	30		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.020		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.5		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	54		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	79	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	61		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	220		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	450		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.24		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	52.27				ft	1		Field Sampling	Total/NA
Field pH	7.16				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_46 (Continued) — Lab Sample ID: 500-258038-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	21.2				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	99.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.28				mg/L	1		Field Sampling	Total/NA
Specific Conductance	709				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.28				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_47 — Lab Sample ID: 500-258038-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.010		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.079		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.16	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	91		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	31		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.028		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	47		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	71	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	57		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	260		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	0.26		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	56.60				ft	1		Field Sampling	Total/NA
Field pH	6.99				SU	1		Field Sampling	Total/NA
Field Temperature	19.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	118.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.98				mg/L	1		Field Sampling	Total/NA
Specific Conductance	727				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.78				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_07 — Lab Sample ID: 500-258038-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0096		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.069	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	140		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0037		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	43		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	2.7		0.50	0.11	mg/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_07 (Continued) — Lab Sample ID: 500-258038-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	42		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	54	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	57		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	390		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	650		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.11		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	69.03				ft	1		Field Sampling	Total/NA
Field pH	6.79				SU	1		Field Sampling	Total/NA
Field Temperature	11.5				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	112.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	5.60				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1144				umhos/cm	1		Field Sampling	Total/NA
Turbidity	5.30				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_08 — Lab Sample ID: 500-258038-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.016		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.11	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00041	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	210		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0024		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00031	J	0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	57		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	7.9		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	110		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	240	B	20	2.3	mg/L	20		300.0	Total/NA
Sulfate	100		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	460		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.086	J	0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.52				ft	1		Field Sampling	Total/NA
Field pH	6.47				SU	1		Field Sampling	Total/NA
Field Temperature	13.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	145.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.89				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1549				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.91				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_52 — Lab Sample ID: 500-258038-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0094		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.10		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.32	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	100		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	32		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.013		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	5.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	57		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	72	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	63		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	300		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	510		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.26		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.74				ft	1		Field Sampling	Total/NA
Field pH	6.94				SU	1		Field Sampling	Total/NA
Field Temperature	19.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	41.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.44				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1008				umhos/cm	1		Field Sampling	Total/NA
Turbidity	3.11				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_54 — Lab Sample ID: 500-258038-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.010		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Barium	0.052		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.30	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	79		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	30		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.030		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.4		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	48		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	63	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	57		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	470		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.26		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.05				ft	1		Field Sampling	Total/NA
Field pH	7.22				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_54 (Continued) — Lab Sample ID: 500-258038-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	17.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	88.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.08				mg/L	1		Field Sampling	Total/NA
Specific Conductance	658				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.51				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_54_FD — Lab Sample ID: 500-258038-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.010		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00023	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.053		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.29	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	80		0.20	0.044	mg/L	1		6020B	Total Recoverable
Magnesium	30		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.030		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	4.3		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	47		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	63	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	57		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	450		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.26		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	54.05				ft	1		Field Sampling	Total/NA
Field pH	7.22				SU	1		Field Sampling	Total/NA
Field Temperature	17.1				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	88.6				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	2.08				mg/L	1		Field Sampling	Total/NA
Specific Conductance	658				umhos/cm	1		Field Sampling	Total/NA
Turbidity	8.51				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_55 — Lab Sample ID: 500-258038-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	52.32				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_XSG01 — Lab Sample ID: 500-258038-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	10.55				ft	1		Field Sampling	Total/NA

Client Sample ID: HEN_SG02_YSG_ILRIVER — Lab Sample ID: 500-258038-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Groundwater Elevation	441.0				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

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: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-258038-6	HEN_08&D	Water	10/08/24 08:15	10/09/24 12:00
500-258038-7	HEN_12	Water	10/08/24 09:15	10/09/24 12:00
500-258038-8	HEN_13	Water	10/08/24 08:20	10/09/24 12:00
500-258038-21	HEN_16	Water	10/09/24 15:05	10/10/24 11:10
500-258038-22	HEN_16_FD	Water	10/09/24 15:20	10/10/24 11:10
500-258038-23	HEN_17	Water	10/09/24 14:10	10/10/24 11:10
500-258038-28	HEN_46	Water	10/09/24 11:30	10/10/24 11:10
500-258038-29	HEN_47	Water	10/09/24 12:40	10/10/24 11:10
500-258038-33	HEN_07	Water	10/10/24 09:20	10/10/24 12:46
500-258038-34	HEN_08	Water	10/10/24 09:20	10/10/24 12:46
500-258038-35	HEN_52	Water	10/10/24 08:10	10/10/24 12:46
500-258038-36	HEN_54	Water	10/10/24 08:15	10/10/24 12:46
500-258038-37	HEN_54_FD	Water	10/10/24 08:25	10/10/24 12:46
500-258038-39	HEN_55	Water	10/07/24 11:57	10/08/24 11:17
500-258038-40	HEN_XSG01	Water	10/07/24 11:32	10/08/24 11:17
500-258038-41	HEN_SG02_YSG_ILRIVER	Water	10/07/24 10:25	10/08/24 11:17

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_08&D
Date Collected: 10/08/24 08:15
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-6
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.014**		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 12:03	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		10/22/24 09:07	10/23/24 16:03	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 16:03	1
Barium	**0.093**		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 16:03	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 16:03	1
Boron	**0.093**	**B**	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 16:03	1
Cadmium	**0.00039**	**J**	0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 16:03	1
Calcium	**170**		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 16:03	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 16:03	1
Cobalt	**0.0020**		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 16:03	1
Lead	**0.00032**	**J**	0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 16:03	1
Magnesium	**49**		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 16:03	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 16:03	1
Potassium	**3.2**		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 16:03	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 16:03	1
Sodium	**180**		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 16:03	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 16:03	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		10/21/24 11:05	10/22/24 08:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**240**	**B**	20	2.3	mg/L			10/23/24 08:42	20
Sulfate (EPA 300.0)	**120**		5.0	1.0	mg/L			10/17/24 00:44	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**460**	**B**	5.0	3.7	mg/L			10/21/24 13:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/21/24 13:21	1
Total Dissolved Solids (SM 2540C)	**1100**		10	4.3	mg/L			10/11/24 01:41	1
Fluoride (SM 4500 F C)	**0.10**		0.10	0.056	mg/L			10/10/24 13:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**55.09**				ft			10/08/24 08:15	1
Field pH	**6.65**				SU			10/08/24 08:15	1
Field Temperature	**13.1**				Degrees C			10/08/24 08:15	1
Oxidation Reduction Potential	**123.9**				millivolts			10/08/24 08:15	1
Oxygen, Dissolved	**1.58**				mg/L			10/08/24 08:15	1
Specific Conductance	**1675**				umhos/cm			10/08/24 08:15	1
Turbidity	**6.33**				NTU			10/08/24 08:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_12
Date Collected: 10/08/24 09:15
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-7
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0090**		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 12:08	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:07	10/23/24 16:06	1
Arsenic	**0.00023**	**J**	0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 16:06	1
Barium	**0.058**		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 16:06	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 16:06	1
Boron	**0.13**	**B**	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 16:06	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 16:06	1
Calcium	**77**		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 16:06	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 16:06	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 16:06	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 16:06	1
Magnesium	**29**		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 16:06	1
Molybdenum	**0.014**		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 16:06	1
Potassium	**4.2**		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 16:06	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 16:06	1
Sodium	**47**		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 16:06	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 16:06	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		10/21/24 11:05	10/22/24 08:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**74**		5.0	0.58	mg/L			10/17/24 01:47	5
Sulfate (EPA 300.0)	**61**		5.0	1.0	mg/L			10/17/24 01:47	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**	**B**	5.0	3.7	mg/L			10/21/24 13:31	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/21/24 13:31	1
Total Dissolved Solids (SM 2540C)	**470**		10	4.3	mg/L			10/11/24 01:43	1
Fluoride (SM 4500 F C)	**0.22**		0.10	0.056	mg/L			10/10/24 13:34	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**7.24**				SU			10/08/24 09:15	1
Field Temperature	**19.4**				Degrees C			10/08/24 09:15	1
Oxidation Reduction Potential	**55.3**				millivolts			10/08/24 09:15	1
Oxygen, Dissolved	**1.74**				mg/L			10/08/24 09:15	1
Specific Conductance	**871**				umhos/cm			10/08/24 09:15	1
Turbidity	**2.79**				NTU			10/08/24 09:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_13
Date Collected: 10/08/24 08:20
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-8
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.011**		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 12:12	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		10/22/24 09:07	10/23/24 16:08	1
Arsenic	**0.00037**	**J**	0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 16:08	1
Barium	**0.044**		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 16:08	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 16:08	1
Boron	**0.17**	**B**	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 16:08	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 16:08	1
Calcium	**80**		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 16:08	1
Chromium	**0.0011**	**J**	0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 16:08	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 16:08	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 16:08	1
Magnesium	**31**		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 16:08	1
Molybdenum	**0.011**		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 16:08	1
Potassium	**4.1**		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 16:08	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 16:08	1
Sodium	**44**		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 16:08	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 16:08	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		10/21/24 11:05	10/22/24 08:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**66**		5.0	0.58	mg/L			10/17/24 02:18	5
Sulfate (EPA 300.0)	**56**		5.0	1.0	mg/L			10/17/24 02:18	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**230**	**B**	5.0	3.7	mg/L			10/21/24 13:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/21/24 13:40	1
Total Dissolved Solids (SM 2540C)	**440**		10	4.3	mg/L			10/11/24 01:46	1
Fluoride (SM 4500 F C)	**0.19**		0.10	0.056	mg/L			10/10/24 13:49	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**52.21**				ft			10/08/24 08:20	1
Field pH	**7.30**				SU			10/08/24 08:20	1
Field Temperature	**18.4**				Degrees C			10/08/24 08:20	1
Oxidation Reduction Potential	**57.4**				millivolts			10/08/24 08:20	1
Oxygen, Dissolved	**1.37**				mg/L			10/08/24 08:20	1
Specific Conductance	**865**				umhos/cm			10/08/24 08:20	1
Turbidity	**3.06**				NTU			10/08/24 08:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_16
Date Collected: 10/09/24 15:05
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-21
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0056**		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 13:28	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:07	10/23/24 17:12	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 17:12	1
Barium	**0.072**		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 17:12	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 17:12	1
Boron	**0.14**	**B**	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 17:12	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 17:12	1
Calcium	**82**		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 17:12	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 17:12	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 17:12	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 17:12	1
Magnesium	**27**		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 17:12	1
Molybdenum	**0.0064**		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 17:12	1
Potassium	**3.9**		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 17:12	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 17:12	1
Sodium	**50**		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 17:12	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 17:12	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		10/22/24 11:40	10/23/24 10:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**70**		5.0	0.58	mg/L			10/17/24 14:03	5
Sulfate (EPA 300.0)	**62**		5.0	1.0	mg/L			10/17/24 14:03	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			10/22/24 16:39	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 16:39	1
Total Dissolved Solids (SM 2540C)	**460**		10	4.3	mg/L			10/11/24 03:14	1
Fluoride (SM 4500 F C)	**0.21**		0.10	0.056	mg/L			10/18/24 16:15	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**55.15**				ft			10/09/24 15:05	1
Field pH	**6.99**				SU			10/09/24 15:05	1
Field Temperature	**21.4**				Degrees C			10/09/24 15:05	1
Oxidation Reduction Potential	**130.9**				millivolts			10/09/24 15:05	1
Oxygen, Dissolved	**2.06**				mg/L			10/09/24 15:05	1
Specific Conductance	**736**				umhos/cm			10/09/24 15:05	1
Turbidity	**5.24**				NTU			10/09/24 15:05	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_16_FD
Date Collected: 10/09/24 15:20
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-22
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0064**		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 13:41	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:07	10/23/24 17:14	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 17:14	1
Barium	**0.072**		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 17:14	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 17:14	1
Boron	**0.13**	**B**	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 17:14	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 17:14	1
Calcium	**83**		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 17:14	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 17:14	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 17:14	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 17:14	1
Magnesium	**27**		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 17:14	1
Molybdenum	**0.0063**		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 17:14	1
Potassium	**4.0**		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 17:14	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 17:14	1
Sodium	**51**		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 17:14	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 17:14	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		10/22/24 11:40	10/23/24 10:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**72**		5.0	0.58	mg/L			10/17/24 14:19	5
Sulfate (EPA 300.0)	**63**		5.0	1.0	mg/L			10/17/24 14:19	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			10/22/24 16:48	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 16:48	1
Total Dissolved Solids (SM 2540C)	**480**		10	4.3	mg/L			10/11/24 03:17	1
Fluoride (SM 4500 F C)	**0.21**		0.10	0.056	mg/L			10/18/24 16:31	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**55.15**				ft			10/09/24 15:20	1
Field pH	**6.99**				SU			10/09/24 15:20	1
Field Temperature	**21.4**				Degrees C			10/09/24 15:20	1
Oxidation Reduction Potential	**130.9**				millivolts			10/09/24 15:20	1
Oxygen, Dissolved	**2.06**				mg/L			10/09/24 15:20	1
Specific Conductance	**736**				umhos/cm			10/09/24 15:20	1
Turbidity	**5.24**				NTU			10/09/24 15:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_17
Date Collected: 10/09/24 14:10
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-23
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0066**		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 13:46	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:07	10/23/24 17:17	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 17:17	1
Barium	**0.086**		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 17:17	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 17:17	1
Boron	**0.13**	**B**	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 17:17	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 17:17	1
Calcium	**74**		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 17:17	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 17:17	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 17:17	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 17:17	1
Magnesium	**28**		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 17:17	1
Molybdenum	**0.0043**	**J**	0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 17:17	1
Potassium	**4.5**		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 17:17	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 17:17	1
Sodium	**61**		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 17:17	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 17:17	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		10/22/24 11:40	10/23/24 10:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**89**		5.0	0.58	mg/L			10/17/24 14:34	5
Sulfate (EPA 300.0)	**70**		5.0	1.0	mg/L			10/17/24 14:34	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**		5.0	3.7	mg/L			10/22/24 16:57	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 16:57	1
Total Dissolved Solids (SM 2540C)	**470**		10	4.3	mg/L			10/11/24 03:19	1
Fluoride (SM 4500 F C)	**0.23**		0.10	0.056	mg/L			10/18/24 16:35	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**56.30**				ft			10/09/24 14:10	1
Field pH	**7.04**				SU			10/09/24 14:10	1
Field Temperature	**22.6**				Degrees C			10/09/24 14:10	1
Oxidation Reduction Potential	**134.7**				millivolts			10/09/24 14:10	1
Oxygen, Dissolved	**4.98**				mg/L			10/09/24 14:10	1
Specific Conductance	**762**				umhos/cm			10/09/24 14:10	1
Turbidity	**92.96**				NTU			10/09/24 14:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_46
Date Collected: 10/09/24 11:30
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-28
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0076**		0.0050	0.0020	mg/L		10/22/24 09:18	10/23/24 12:19	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:09	10/22/24 22:17	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:09	10/22/24 22:17	1
Barium	**0.074**		0.0025	0.00073	mg/L		10/22/24 09:09	10/22/24 22:17	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:09	10/23/24 11:38	1
Boron	**0.14**	**B**	0.050	0.013	mg/L		10/22/24 09:09	10/23/24 11:38	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:09	10/23/24 11:38	1
Calcium	**81**		0.20	0.044	mg/L		10/22/24 09:09	10/22/24 22:17	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:09	10/22/24 22:17	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:09	10/23/24 11:38	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:09	10/22/24 22:17	1
Magnesium	**30**		0.20	0.049	mg/L		10/22/24 09:09	10/22/24 22:17	1
Molybdenum	**0.020**		0.0050	0.0025	mg/L		10/22/24 09:09	10/22/24 22:17	1
Potassium	**4.5**		0.50	0.11	mg/L		10/22/24 09:09	10/22/24 22:17	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:09	10/22/24 22:17	1
Sodium	**54**		0.20	0.077	mg/L		10/22/24 09:09	10/22/24 22:17	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:09	10/23/24 11:38	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		10/22/24 11:40	10/23/24 10:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**79**	**B**	5.0	0.58	mg/L			10/23/24 09:13	5
Sulfate (EPA 300.0)	**61**		5.0	1.0	mg/L			10/23/24 09:13	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**		5.0	3.7	mg/L			10/22/24 18:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 18:07	1
Total Dissolved Solids (SM 2540C)	**450**		10	4.3	mg/L			10/11/24 03:32	1
Fluoride (SM 4500 F C)	**0.24**		0.10	0.056	mg/L			10/18/24 16:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**52.27**				ft			10/09/24 11:30	1
Field pH	**7.16**				SU			10/09/24 11:30	1
Field Temperature	**21.2**				Degrees C			10/09/24 11:30	1
Oxidation Reduction Potential	**99.9**				millivolts			10/09/24 11:30	1
Oxygen, Dissolved	**1.28**				mg/L			10/09/24 11:30	1
Specific Conductance	**709**				umhos/cm			10/09/24 11:30	1
Turbidity	**7.28**				NTU			10/09/24 11:30	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_47
Date Collected: 10/09/24 12:40
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-29
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.010**		0.0050	0.0020	mg/L		10/22/24 09:18	10/23/24 12:24	1

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:09	10/22/24 22:20	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:09	10/22/24 22:20	1
Barium	**0.079**		0.0025	0.00073	mg/L		10/22/24 09:09	10/22/24 22:20	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:09	10/23/24 11:41	1
Boron	**0.16**	**B**	0.050	0.013	mg/L		10/22/24 09:09	10/23/24 11:41	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:09	10/23/24 11:41	1
Calcium	**91**		0.20	0.044	mg/L		10/22/24 09:09	10/22/24 22:20	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:09	10/22/24 22:20	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:09	10/23/24 11:41	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:09	10/22/24 22:20	1
Magnesium	**31**		0.20	0.049	mg/L		10/22/24 09:09	10/22/24 22:20	1
Molybdenum	**0.028**		0.0050	0.0025	mg/L		10/22/24 09:09	10/22/24 22:20	1
Potassium	**4.4**		0.50	0.11	mg/L		10/22/24 09:09	10/22/24 22:20	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:09	10/22/24 22:20	1
Sodium	**47**		0.20	0.077	mg/L		10/22/24 09:09	10/22/24 22:20	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:09	10/23/24 11:41	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		10/22/24 11:40	10/23/24 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**71**	**B**	5.0	0.58	mg/L			10/23/24 09:28	5
Sulfate (EPA 300.0)	**57**		5.0	1.0	mg/L			10/23/24 09:28	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**260**		5.0	3.7	mg/L			10/22/24 18:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 18:16	1
Total Dissolved Solids (SM 2540C)	**460**		10	4.3	mg/L			10/11/24 03:35	1
Fluoride (SM 4500 F C)	**0.26**		0.10	0.056	mg/L			10/18/24 17:30	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**56.60**				ft			10/09/24 12:40	1
Field pH	**6.99**				SU			10/09/24 12:40	1
Field Temperature	**19.6**				Degrees C			10/09/24 12:40	1
Oxidation Reduction Potential	**118.9**				millivolts			10/09/24 12:40	1
Oxygen, Dissolved	**1.98**				mg/L			10/09/24 12:40	1
Specific Conductance	**727**				umhos/cm			10/09/24 12:40	1
Turbidity	**7.78**				NTU			10/09/24 12:40	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_07
Date Collected: 10/10/24 09:20
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-33
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0096**		0.0050	0.0020	mg/L		10/22/24 09:18	10/23/24 13:09	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		10/22/24 09:09	10/22/24 22:45	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:09	10/22/24 22:45	1
Barium	**0.12**		0.0025	0.00073	mg/L		10/22/24 09:09	10/22/24 22:45	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:09	10/23/24 12:09	1
Boron	**0.069**	**B**	0.050	0.013	mg/L		10/22/24 09:09	10/23/24 12:09	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:09	10/23/24 12:09	1
Calcium	**140**		0.20	0.044	mg/L		10/22/24 09:09	10/22/24 22:45	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:09	10/22/24 22:45	1
Cobalt	**0.0037**		0.0010	0.00040	mg/L		10/22/24 09:09	10/23/24 12:09	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:09	10/22/24 22:45	1
Magnesium	**43**		0.20	0.049	mg/L		10/22/24 09:09	10/22/24 22:45	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		10/22/24 09:09	10/22/24 22:45	1
Potassium	**2.7**		0.50	0.11	mg/L		10/22/24 09:09	10/22/24 22:45	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:09	10/22/24 22:45	1
Sodium	**42**		0.20	0.077	mg/L		10/22/24 09:09	10/22/24 22:45	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:09	10/23/24 12:09	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		10/22/24 11:40	10/23/24 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**54**	**B**	5.0	0.58	mg/L			10/19/24 07:15	5
Sulfate (EPA 300.0)	**57**		5.0	1.0	mg/L			10/19/24 07:15	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**390**		5.0	3.7	mg/L			10/22/24 22:30	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 22:30	1
Total Dissolved Solids (SM 2540C)	**650**		10	4.3	mg/L			10/11/24 03:53	1
Fluoride (SM 4500 F C)	**0.11**		0.10	0.056	mg/L			10/18/24 17:44	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**69.03**				ft			10/10/24 09:20	1
Field pH	**6.79**				SU			10/10/24 09:20	1
Field Temperature	**11.5**				Degrees C			10/10/24 09:20	1
Oxidation Reduction Potential	**112.7**				millivolts			10/10/24 09:20	1
Oxygen, Dissolved	**5.60**				mg/L			10/10/24 09:20	1
Specific Conductance	**1144**				umhos/cm			10/10/24 09:20	1
Turbidity	**5.30**				NTU			10/10/24 09:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_08
Date Collected: 10/10/24 09:20
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-34
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.016**		0.0050	0.0020	mg/L		10/22/24 09:18	10/23/24 13:13	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		10/22/24 09:09	10/22/24 22:47	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:09	10/22/24 22:47	1
Barium	**0.12**		0.0025	0.00073	mg/L		10/22/24 09:09	10/22/24 22:47	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:09	10/23/24 12:12	1
Boron	**0.11**	**B**	0.050	0.013	mg/L		10/22/24 09:09	10/23/24 12:12	1
Cadmium	**0.00041**	**J**	0.00050	0.00017	mg/L		10/22/24 09:09	10/23/24 12:12	1
Calcium	**210**		0.20	0.044	mg/L		10/22/24 09:09	10/22/24 22:47	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:09	10/22/24 22:47	1
Cobalt	**0.0024**		0.0010	0.00040	mg/L		10/22/24 09:09	10/23/24 12:12	1
Lead	**0.00031**	**J**	0.00050	0.00019	mg/L		10/22/24 09:09	10/22/24 22:47	1
Magnesium	**57**		0.20	0.049	mg/L		10/22/24 09:09	10/22/24 22:47	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		10/22/24 09:09	10/22/24 22:47	1
Potassium	**7.9**		0.50	0.11	mg/L		10/22/24 09:09	10/22/24 22:47	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:09	10/22/24 22:47	1
Sodium	**110**		0.20	0.077	mg/L		10/22/24 09:09	10/22/24 22:47	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:09	10/23/24 12:12	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		10/22/24 11:40	10/23/24 10:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**240**	**B**	20	2.3	mg/L			10/23/24 12:36	20
Sulfate (EPA 300.0)	**100**		5.0	1.0	mg/L			10/19/24 07:47	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**460**		5.0	3.7	mg/L			10/22/24 22:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 22:40	1
Total Dissolved Solids (SM 2540C)	**1100**		10	4.3	mg/L			10/13/24 22:14	1
Fluoride (SM 4500 F C)	**0.086**	**J**	0.10	0.056	mg/L			10/18/24 17:48	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.52**				ft			10/10/24 09:20	1
Field pH	**6.47**				SU			10/10/24 09:20	1
Field Temperature	**13.7**				Degrees C			10/10/24 09:20	1
Oxidation Reduction Potential	**145.6**				millivolts			10/10/24 09:20	1
Oxygen, Dissolved	**1.89**				mg/L			10/10/24 09:20	1
Specific Conductance	**1549**				umhos/cm			10/10/24 09:20	1
Turbidity	**9.91**				NTU			10/10/24 09:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_52
Date Collected: 10/10/24 08:10
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-35
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.0094**		0.0050	0.0020	mg/L		10/22/24 09:18	10/23/24 13:18	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		10/22/24 09:09	10/22/24 22:50	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:09	10/22/24 22:50	1
Barium	**0.10**		0.0025	0.00073	mg/L		10/22/24 09:09	10/22/24 22:50	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:09	10/23/24 12:14	1
Boron	**0.32**	**B**	0.050	0.013	mg/L		10/22/24 09:09	10/23/24 12:14	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:09	10/23/24 12:14	1
Calcium	**100**		0.20	0.044	mg/L		10/22/24 09:09	10/22/24 22:50	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:09	10/22/24 22:50	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:09	10/23/24 12:14	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:09	10/22/24 22:50	1
Magnesium	**32**		0.20	0.049	mg/L		10/22/24 09:09	10/22/24 22:50	1
Molybdenum	**0.013**		0.0050	0.0025	mg/L		10/22/24 09:09	10/22/24 22:50	1
Potassium	**5.4**		0.50	0.11	mg/L		10/22/24 09:09	10/22/24 22:50	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:09	10/22/24 22:50	1
Sodium	**57**		0.20	0.077	mg/L		10/22/24 09:09	10/22/24 22:50	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:09	10/23/24 12:14	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		10/22/24 11:40	10/23/24 10:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**72**	**B**	5.0	0.58	mg/L			10/19/24 08:02	5
Sulfate (EPA 300.0)	**63**		5.0	1.0	mg/L			10/19/24 08:02	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**300**		5.0	3.7	mg/L			10/22/24 22:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 22:50	1
Total Dissolved Solids (SM 2540C)	**510**		10	4.3	mg/L			10/13/24 22:17	1
Fluoride (SM 4500 F C)	**0.26**		0.10	0.056	mg/L			10/18/24 17:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.74**				ft			10/10/24 08:10	1
Field pH	**6.94**				SU			10/10/24 08:10	1
Field Temperature	**19.8**				Degrees C			10/10/24 08:10	1
Oxidation Reduction Potential	**41.7**				millivolts			10/10/24 08:10	1
Oxygen, Dissolved	**1.44**				mg/L			10/10/24 08:10	1
Specific Conductance	**1008**				umhos/cm			10/10/24 08:10	1
Turbidity	**3.11**				NTU			10/10/24 08:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_54
Date Collected: 10/10/24 08:15
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-36
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.010**		0.0050	0.0020	mg/L		10/22/24 09:18	10/23/24 13:22	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		10/22/24 09:09	10/22/24 22:52	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:09	10/22/24 22:52	1
Barium	**0.052**		0.0025	0.00073	mg/L		10/22/24 09:09	10/22/24 22:52	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:09	10/23/24 12:16	1
Boron	**0.30**	**B**	0.050	0.013	mg/L		10/22/24 09:09	10/23/24 12:16	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:09	10/23/24 12:16	1
Calcium	**79**		0.20	0.044	mg/L		10/22/24 09:09	10/22/24 22:52	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:09	10/22/24 22:52	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:09	10/23/24 12:16	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:09	10/22/24 22:52	1
Magnesium	**30**		0.20	0.049	mg/L		10/22/24 09:09	10/22/24 22:52	1
Molybdenum	**0.030**		0.0050	0.0025	mg/L		10/22/24 09:09	10/22/24 22:52	1
Potassium	**4.4**		0.50	0.11	mg/L		10/22/24 09:09	10/22/24 22:52	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:09	10/22/24 22:52	1
Sodium	**48**		0.20	0.077	mg/L		10/22/24 09:09	10/22/24 22:52	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:09	10/23/24 12:16	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		10/22/24 11:40	10/23/24 10:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**63**	**B**	5.0	0.58	mg/L			10/19/24 08:18	5
Sulfate (EPA 300.0)	**57**		5.0	1.0	mg/L			10/19/24 08:18	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			10/22/24 23:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 23:00	1
Total Dissolved Solids (SM 2540C)	**470**		10	4.3	mg/L			10/13/24 22:20	1
Fluoride (SM 4500 F C)	**0.26**		0.10	0.056	mg/L			10/18/24 17:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.05**				ft			10/10/24 08:15	1
Field pH	**7.22**				SU			10/10/24 08:15	1
Field Temperature	**17.1**				Degrees C			10/10/24 08:15	1
Oxidation Reduction Potential	**88.6**				millivolts			10/10/24 08:15	1
Oxygen, Dissolved	**2.08**				mg/L			10/10/24 08:15	1
Specific Conductance	**658**				umhos/cm			10/10/24 08:15	1
Turbidity	**8.51**				NTU			10/10/24 08:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_54_FD
Date Collected: 10/10/24 08:25
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-37
Matrix: Water

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	**0.010**		0.0050	0.0020	mg/L		10/22/24 09:18	10/23/24 13:27	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		10/22/24 09:09	10/22/24 22:55	1
Arsenic	**0.00023**	**J**	0.0010	0.00023	mg/L		10/22/24 09:09	10/22/24 22:55	1
Barium	**0.053**		0.0025	0.00073	mg/L		10/22/24 09:09	10/22/24 22:55	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:09	10/23/24 12:19	1
Boron	**0.29**	**B**	0.050	0.013	mg/L		10/22/24 09:09	10/23/24 12:19	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:09	10/23/24 12:19	1
Calcium	**80**		0.20	0.044	mg/L		10/22/24 09:09	10/22/24 22:55	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:09	10/22/24 22:55	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:09	10/23/24 12:19	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:09	10/22/24 22:55	1
Magnesium	**30**		0.20	0.049	mg/L		10/22/24 09:09	10/22/24 22:55	1
Molybdenum	**0.030**		0.0050	0.0025	mg/L		10/22/24 09:09	10/22/24 22:55	1
Potassium	**4.3**		0.50	0.11	mg/L		10/22/24 09:09	10/22/24 22:55	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:09	10/22/24 22:55	1
Sodium	**47**		0.20	0.077	mg/L		10/22/24 09:09	10/22/24 22:55	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:09	10/23/24 12:19	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		10/22/24 11:40	10/23/24 10:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**63**	**B**	5.0	0.58	mg/L			10/19/24 08:34	5
Sulfate (EPA 300.0)	**57**		5.0	1.0	mg/L			10/19/24 08:34	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.7	mg/L			10/22/24 23:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 23:09	1
Total Dissolved Solids (SM 2540C)	**450**		10	4.3	mg/L			10/13/24 22:22	1
Fluoride (SM 4500 F C)	**0.26**		0.10	0.056	mg/L			10/18/24 18:03	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	**54.05**				ft			10/10/24 08:25	1
Field pH	**7.22**				SU			10/10/24 08:25	1
Field Temperature	**17.1**				Degrees C			10/10/24 08:25	1
Oxidation Reduction Potential	**88.6**				millivolts			10/10/24 08:25	1
Oxygen, Dissolved	**2.08**				mg/L			10/10/24 08:25	1
Specific Conductance	**658**				umhos/cm			10/10/24 08:25	1
Turbidity	**8.51**				NTU			10/10/24 08:25	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_55

Date Collected: 10/07/24 11:57
Date Received: 10/08/24 11:17

Lab Sample ID: 500-258038-39

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	52.32				ft			10/07/24 11:57	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_XSG01

Date Collected: 10/07/24 11:32
Date Received: 10/08/24 11:17

Lab Sample ID: 500-258038-40

Matrix: Water

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	10.55				ft			10/07/24 11:32	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_SG02_YSG_ILRIVER

Lab Sample ID: 500-258038-41
Matrix: Water
Date Collected: 10/07/24 10:25
Date Received: 10/08/24 11:17

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Groundwater Elevation	441.0				ft			10/07/24 10:25	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

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: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Metals

Prep Batch: 791618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total/NA	Water	7470A	
500-258038-7	HEN_12	Total/NA	Water	7470A	
500-258038-8	HEN_13	Total/NA	Water	7470A	
MB 500-791618/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-791618/13-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 500-791618/29-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Prep Batch: 791759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total Recoverable	Water	3005A	
500-258038-7	HEN_12	Total Recoverable	Water	3005A	
500-258038-8	HEN_13	Total Recoverable	Water	3005A	
500-258038-21	HEN_16	Total Recoverable	Water	3005A	
500-258038-22	HEN_16_FD	Total Recoverable	Water	3005A	
500-258038-23	HEN_17	Total Recoverable	Water	3005A	
MB 500-791759/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-791759/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 791760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-28	HEN_46	Total Recoverable	Water	3005A	
500-258038-29	HEN_47	Total Recoverable	Water	3005A	
500-258038-33	HEN_07	Total Recoverable	Water	3005A	
500-258038-34	HEN_08	Total Recoverable	Water	3005A	
500-258038-35	HEN_52	Total Recoverable	Water	3005A	
500-258038-36	HEN_54	Total Recoverable	Water	3005A	
500-258038-37	HEN_54_FD	Total Recoverable	Water	3005A	
MB 500-791760/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-791760/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Prep Batch: 791762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total Recoverable	Water	200.7	
500-258038-7	HEN_12	Total Recoverable	Water	200.7	
500-258038-8	HEN_13	Total Recoverable	Water	200.7	
500-258038-21	HEN_16	Total Recoverable	Water	200.7	
500-258038-22	HEN_16_FD	Total Recoverable	Water	200.7	
500-258038-23	HEN_17	Total Recoverable	Water	200.7	
MB 500-791762/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-791762/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 791763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-28	HEN_46	Total Recoverable	Water	200.7	
500-258038-29	HEN_47	Total Recoverable	Water	200.7	
500-258038-33	HEN_07	Total Recoverable	Water	200.7	
500-258038-34	HEN_08	Total Recoverable	Water	200.7	
500-258038-35	HEN_52	Total Recoverable	Water	200.7	
500-258038-36	HEN_54	Total Recoverable	Water	200.7	
500-258038-37	HEN_54_FD	Total Recoverable	Water	200.7	
MB 500-791763/1-A	Method Blank	Total Recoverable	Water	200.7	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Metals (Continued)

Prep Batch: 791763 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-791763/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 791799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-21	HEN_16	Total/NA	Water	7470A	
500-258038-22	HEN_16_FD	Total/NA	Water	7470A	
500-258038-23	HEN_17	Total/NA	Water	7470A	
500-258038-28	HEN_46	Total/NA	Water	7470A	
500-258038-29	HEN_47	Total/NA	Water	7470A	
500-258038-33	HEN_07	Total/NA	Water	7470A	
500-258038-34	HEN_08	Total/NA	Water	7470A	
500-258038-35	HEN_52	Total/NA	Water	7470A	
500-258038-36	HEN_54	Total/NA	Water	7470A	
500-258038-37	HEN_54_FD	Total/NA	Water	7470A	
MB 500-791799/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-791799/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 791808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total/NA	Water	7470A	791618
500-258038-7	HEN_12	Total/NA	Water	7470A	791618
500-258038-8	HEN_13	Total/NA	Water	7470A	791618
MB 500-791618/12-A	Method Blank	Total/NA	Water	7470A	791618
LCS 500-791618/13-A	Lab Control Sample	Total/NA	Water	7470A	791618
LCSD 500-791618/29-A	Lab Control Sample Dup	Total/NA	Water	7470A	791618

Analysis Batch: 791955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-28	HEN_46	Total Recoverable	Water	6020B	791760
500-258038-29	HEN_47	Total Recoverable	Water	6020B	791760
500-258038-33	HEN_07	Total Recoverable	Water	6020B	791760
500-258038-34	HEN_08	Total Recoverable	Water	6020B	791760
500-258038-35	HEN_52	Total Recoverable	Water	6020B	791760
500-258038-36	HEN_54	Total Recoverable	Water	6020B	791760
500-258038-37	HEN_54_FD	Total Recoverable	Water	6020B	791760
MB 500-791760/1-A	Method Blank	Total Recoverable	Water	6020B	791760
LCS 500-791760/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791760

Analysis Batch: 792003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-21	HEN_16	Total/NA	Water	7470A	791799
500-258038-22	HEN_16_FD	Total/NA	Water	7470A	791799
500-258038-23	HEN_17	Total/NA	Water	7470A	791799
500-258038-28	HEN_46	Total/NA	Water	7470A	791799
500-258038-29	HEN_47	Total/NA	Water	7470A	791799
500-258038-33	HEN_07	Total/NA	Water	7470A	791799
500-258038-34	HEN_08	Total/NA	Water	7470A	791799
500-258038-35	HEN_52	Total/NA	Water	7470A	791799
500-258038-36	HEN_54	Total/NA	Water	7470A	791799
500-258038-37	HEN_54_FD	Total/NA	Water	7470A	791799
MB 500-791799/12-A	Method Blank	Total/NA	Water	7470A	791799

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Metals (Continued)

Analysis Batch: 792003 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-791799/13-A	Lab Control Sample	Total/NA	Water	7470A	791799

Analysis Batch: 792031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total Recoverable	Water	200.7 Rev 4.4	791762
500-258038-7	HEN_12	Total Recoverable	Water	200.7 Rev 4.4	791762
500-258038-8	HEN_13	Total Recoverable	Water	200.7 Rev 4.4	791762
500-258038-21	HEN_16	Total Recoverable	Water	200.7 Rev 4.4	791762
500-258038-22	HEN_16_FD	Total Recoverable	Water	200.7 Rev 4.4	791762
500-258038-23	HEN_17	Total Recoverable	Water	200.7 Rev 4.4	791762
MB 500-791762/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	791762
LCS 500-791762/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	791762

Analysis Batch: 792032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-28	HEN_46	Total Recoverable	Water	6020B	791760
500-258038-29	HEN_47	Total Recoverable	Water	6020B	791760
500-258038-33	HEN_07	Total Recoverable	Water	6020B	791760
500-258038-34	HEN_08	Total Recoverable	Water	6020B	791760
500-258038-35	HEN_52	Total Recoverable	Water	6020B	791760
500-258038-36	HEN_54	Total Recoverable	Water	6020B	791760
500-258038-37	HEN_54_FD	Total Recoverable	Water	6020B	791760
MB 500-791760/1-A	Method Blank	Total Recoverable	Water	6020B	791760
LCS 500-791760/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791760

Analysis Batch: 792033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-28	HEN_46	Total Recoverable	Water	200.7 Rev 4.4	791763
500-258038-29	HEN_47	Total Recoverable	Water	200.7 Rev 4.4	791763
500-258038-33	HEN_07	Total Recoverable	Water	200.7 Rev 4.4	791763
500-258038-34	HEN_08	Total Recoverable	Water	200.7 Rev 4.4	791763
500-258038-35	HEN_52	Total Recoverable	Water	200.7 Rev 4.4	791763
500-258038-36	HEN_54	Total Recoverable	Water	200.7 Rev 4.4	791763
500-258038-37	HEN_54_FD	Total Recoverable	Water	200.7 Rev 4.4	791763
MB 500-791763/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	791763
LCS 500-791763/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	791763

Analysis Batch: 792125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total Recoverable	Water	6020B	791759
500-258038-7	HEN_12	Total Recoverable	Water	6020B	791759
500-258038-8	HEN_13	Total Recoverable	Water	6020B	791759
500-258038-21	HEN_16	Total Recoverable	Water	6020B	791759
500-258038-22	HEN_16_FD	Total Recoverable	Water	6020B	791759
500-258038-23	HEN_17	Total Recoverable	Water	6020B	791759
MB 500-791759/1-A	Method Blank	Total Recoverable	Water	6020B	791759
LCS 500-791759/2-A	Lab Control Sample	Total Recoverable	Water	6020B	791759

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

General Chemistry

Analysis Batch: 790105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total/NA	Water	SM 2540C	
500-258038-7	HEN_12	Total/NA	Water	SM 2540C	
500-258038-8	HEN_13	Total/NA	Water	SM 2540C	
MB 500-790105/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-790105/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 790108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-21	HEN_16	Total/NA	Water	SM 2540C	
500-258038-22	HEN_16_FD	Total/NA	Water	SM 2540C	
500-258038-23	HEN_17	Total/NA	Water	SM 2540C	
500-258038-28	HEN_46	Total/NA	Water	SM 2540C	
500-258038-29	HEN_47	Total/NA	Water	SM 2540C	
500-258038-33	HEN_07	Total/NA	Water	SM 2540C	
MB 500-790108/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-790108/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 790148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total/NA	Water	SM 4500 F C	
500-258038-7	HEN_12	Total/NA	Water	SM 4500 F C	
500-258038-8	HEN_13	Total/NA	Water	SM 4500 F C	
MB 500-790148/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-790148/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 790410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-34	HEN_08	Total/NA	Water	SM 2540C	
500-258038-35	HEN_52	Total/NA	Water	SM 2540C	
500-258038-36	HEN_54	Total/NA	Water	SM 2540C	
500-258038-37	HEN_54_FD	Total/NA	Water	SM 2540C	
MB 500-790410/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-790410/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 790938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total/NA	Water	300.0	
500-258038-7	HEN_12	Total/NA	Water	300.0	
500-258038-8	HEN_13	Total/NA	Water	300.0	
500-258038-21	HEN_16	Total/NA	Water	300.0	
500-258038-22	HEN_16_FD	Total/NA	Water	300.0	
500-258038-23	HEN_17	Total/NA	Water	300.0	
MB 500-790938/33	Method Blank	Total/NA	Water	300.0	
MB 500-790938/65	Method Blank	Total/NA	Water	300.0	
LCS 500-790938/34	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-790938/66	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 791383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-33	HEN_07	Total/NA	Water	300.0	
500-258038-34	HEN_08	Total/NA	Water	300.0	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

General Chemistry (Continued)

Analysis Batch: 791383 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-35	HEN_52	Total/NA	Water	300.0	
500-258038-36	HEN_54	Total/NA	Water	300.0	
500-258038-37	HEN_54_FD	Total/NA	Water	300.0	
MB 500-791383/51	Method Blank	Total/NA	Water	300.0	
LCS 500-791383/52	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 791579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-21	HEN_16	Total/NA	Water	SM 4500 F C	
500-258038-22	HEN_16_FD	Total/NA	Water	SM 4500 F C	
500-258038-23	HEN_17	Total/NA	Water	SM 4500 F C	
500-258038-28	HEN_46	Total/NA	Water	SM 4500 F C	
500-258038-29	HEN_47	Total/NA	Water	SM 4500 F C	
500-258038-33	HEN_07	Total/NA	Water	SM 4500 F C	
500-258038-34	HEN_08	Total/NA	Water	SM 4500 F C	
500-258038-35	HEN_52	Total/NA	Water	SM 4500 F C	
500-258038-36	HEN_54	Total/NA	Water	SM 4500 F C	
500-258038-37	HEN_54_FD	Total/NA	Water	SM 4500 F C	
MB 500-791579/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-791579/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	

Analysis Batch: 791737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total/NA	Water	SM 2320B	
500-258038-7	HEN_12	Total/NA	Water	SM 2320B	
500-258038-8	HEN_13	Total/NA	Water	SM 2320B	
MB 500-791737/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-791737/4	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 791804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total/NA	Water	300.0	
500-258038-28	HEN_46	Total/NA	Water	300.0	
500-258038-29	HEN_47	Total/NA	Water	300.0	
500-258038-34	HEN_08	Total/NA	Water	300.0	
MB 500-791804/33	Method Blank	Total/NA	Water	300.0	
LCS 500-791804/34	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 791946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-21	HEN_16	Total/NA	Water	SM 2320B	
500-258038-22	HEN_16_FD	Total/NA	Water	SM 2320B	
500-258038-23	HEN_17	Total/NA	Water	SM 2320B	
500-258038-28	HEN_46	Total/NA	Water	SM 2320B	
500-258038-29	HEN_47	Total/NA	Water	SM 2320B	
500-258038-33	HEN_07	Total/NA	Water	SM 2320B	
500-258038-34	HEN_08	Total/NA	Water	SM 2320B	
500-258038-35	HEN_52	Total/NA	Water	SM 2320B	
500-258038-36	HEN_54	Total/NA	Water	SM 2320B	
500-258038-37	HEN_54_FD	Total/NA	Water	SM 2320B	
MB 500-791946/28	Method Blank	Total/NA	Water	SM 2320B	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

General Chemistry (Continued)

Analysis Batch: 791946 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-791946/3	Method Blank	Total/NA	Water	SM 2320B	
MB 500-791946/53	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-791946/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-791946/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-791946/54	Lab Control Sample	Total/NA	Water	SM 2320B	

Field Service / Mobile Lab

Analysis Batch: 791677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total/NA	Water	Field Sampling	
500-258038-7	HEN_12	Total/NA	Water	Field Sampling	
500-258038-8	HEN_13	Total/NA	Water	Field Sampling	
500-258038-21	HEN_16	Total/NA	Water	Field Sampling	
500-258038-22	HEN_16_FD	Total/NA	Water	Field Sampling	
500-258038-23	HEN_17	Total/NA	Water	Field Sampling	
500-258038-28	HEN_46	Total/NA	Water	Field Sampling	
500-258038-29	HEN_47	Total/NA	Water	Field Sampling	
500-258038-33	HEN_07	Total/NA	Water	Field Sampling	
500-258038-34	HEN_08	Total/NA	Water	Field Sampling	
500-258038-35	HEN_52	Total/NA	Water	Field Sampling	
500-258038-36	HEN_54	Total/NA	Water	Field Sampling	
500-258038-37	HEN_54_FD	Total/NA	Water	Field Sampling	
500-258038-39	HEN_55	Total/NA	Water	Field Sampling	
500-258038-40	HEN_XSG01	Total/NA	Water	Field Sampling	
500-258038-41	HEN_SG02_YSG_ILRIVER	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-791762/1-A
Matrix: Water
Analysis Batch: 792031

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791762

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 11:54	1

Lab Sample ID: LCS 500-791762/2-A
Matrix: Water
Analysis Batch: 792031

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791762

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.258		mg/L		103	85 - 115

Lab Sample ID: MB 500-791763/1-A
Matrix: Water
Analysis Batch: 792033

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791763

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		10/22/24 09:18	10/23/24 12:10	1

Lab Sample ID: LCS 500-791763/2-A
Matrix: Water
Analysis Batch: 792033

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791763

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.245		mg/L		98	85 - 115

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-791759/1-A
Matrix: Water
Analysis Batch: 792125

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791759

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:07	10/23/24 15:59	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 15:59	1
Barium	<0.0025		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 15:59	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 15:59	1
Boron	0.0181	J	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 15:59	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 15:59	1
Calcium	<0.20		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 15:59	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 15:59	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 15:59	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 15:59	1
Magnesium	<0.20		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 15:59	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 15:59	1
Potassium	<0.50		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 15:59	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 15:59	1
Sodium	<0.20		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 15:59	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 15:59	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-791759/2-A
Matrix: Water
Analysis Batch: 792125

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791759

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.521		mg/L		104	80 - 120
Arsenic	0.100	0.0997		mg/L		100	80 - 120
Barium	0.500	0.520		mg/L		104	80 - 120
Beryllium	0.0500	0.0510		mg/L		102	80 - 120
Boron	1.00	1.05		mg/L		105	80 - 120
Cadmium	0.0500	0.0518		mg/L		104	80 - 120
Calcium	10.0	8.28		mg/L		83	80 - 120
Chromium	0.200	0.210		mg/L		105	80 - 120
Cobalt	0.500	0.566		mg/L		113	80 - 120
Lead	0.100	0.102		mg/L		102	80 - 120
Magnesium	10.0	10.8		mg/L		108	80 - 120
Molybdenum	1.00	1.02		mg/L		102	80 - 120
Potassium	10.0	10.8		mg/L		108	80 - 120
Selenium	0.100	0.0986		mg/L		99	80 - 120
Sodium	10.0	10.7		mg/L		107	80 - 120
Thallium	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: MB 500-791760/1-A
Matrix: Water
Analysis Batch: 791955

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:09	10/22/24 22:12	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:09	10/22/24 22:12	1
Barium	<0.0025		0.0025	0.00073	mg/L		10/22/24 09:09	10/22/24 22:12	1
Calcium	<0.20		0.20	0.044	mg/L		10/22/24 09:09	10/22/24 22:12	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:09	10/22/24 22:12	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:09	10/22/24 22:12	1
Magnesium	<0.20		0.20	0.049	mg/L		10/22/24 09:09	10/22/24 22:12	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		10/22/24 09:09	10/22/24 22:12	1
Potassium	<0.50		0.50	0.11	mg/L		10/22/24 09:09	10/22/24 22:12	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:09	10/22/24 22:12	1
Sodium	<0.20		0.20	0.077	mg/L		10/22/24 09:09	10/22/24 22:12	1

Lab Sample ID: MB 500-791760/1-A
Matrix: Water
Analysis Batch: 792032

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 791760

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:09	10/23/24 11:34	1
Boron	0.0193	J	0.050	0.013	mg/L		10/22/24 09:09	10/23/24 11:34	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:09	10/23/24 11:34	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:09	10/23/24 11:34	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:09	10/23/24 11:34	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-791760/2-A
Matrix: Water
Analysis Batch: 791955

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.558		mg/L		112	80 - 120
Arsenic	0.100	0.107		mg/L		107	80 - 120
Barium	0.500	0.554		mg/L		111	80 - 120
Calcium	10.0	8.83		mg/L		88	80 - 120
Chromium	0.200	0.220		mg/L		110	80 - 120
Lead	0.100	0.109		mg/L		109	80 - 120
Magnesium	10.0	10.9		mg/L		109	80 - 120
Molybdenum	1.00	1.08		mg/L		108	80 - 120
Potassium	10.0	10.8		mg/L		108	80 - 120
Selenium	0.100	0.107		mg/L		107	80 - 120
Sodium	10.0	10.7		mg/L		107	80 - 120

Lab Sample ID: LCS 500-791760/2-A
Matrix: Water
Analysis Batch: 792032

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 791760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0518		mg/L		104	80 - 120
Boron	1.00	1.02		mg/L		102	80 - 120
Cadmium	0.0500	0.0512		mg/L		102	80 - 120
Cobalt	0.500	0.534		mg/L		107	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-791618/12-A
Matrix: Water
Analysis Batch: 791808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 791618

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		10/21/24 11:05	10/22/24 08:34	1

Lab Sample ID: LCS 500-791618/13-A
Matrix: Water
Analysis Batch: 791808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 791618

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00202		mg/L		101	80 - 120

Lab Sample ID: LCSD 500-791618/29-A
Matrix: Water
Analysis Batch: 791808

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 791618

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00200	0.00202		mg/L		101	80 - 120	0	20

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 500-791799/12-A
Matrix: Water
Analysis Batch: 792003

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 791799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		10/22/24 11:40	10/23/24 09:55	1

Lab Sample ID: LCS 500-791799/13-A
Matrix: Water
Analysis Batch: 792003

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 791799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00196		mg/L		98	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-790938/33
Matrix: Water
Analysis Batch: 790938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			10/16/24 23:57	1
Sulfate	<1.0		1.0	0.21	mg/L			10/16/24 23:57	1

Lab Sample ID: MB 500-790938/65
Matrix: Water
Analysis Batch: 790938

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.0		1.0	0.12	mg/L			10/17/24 08:18	1
Sulfate	<1.0		1.0	0.21	mg/L			10/17/24 08:18	1

Lab Sample ID: LCS 500-790938/34
Matrix: Water
Analysis Batch: 790938

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

Lab Sample ID: LCS 500-790938/66
Matrix: Water
Analysis Batch: 790938

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

Lab Sample ID: MB 500-791383/51
Matrix: Water
Analysis Batch: 791383

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.166	J	1.0	0.12	mg/L			10/19/24 02:34	1
Sulfate	<1.0		1.0	0.21	mg/L			10/19/24 02:34	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-791383/52
Matrix: Water
Analysis Batch: 791383

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	19.8		mg/L		99	90 - 110
Sulfate	20.0	20.4		mg/L		102	90 - 110

Lab Sample ID: MB 500-791804/33
Matrix: Water
Analysis Batch: 791804

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.156	J	1.0	0.12	mg/L			10/23/24 06:21	1
Sulfate	<1.0		1.0	0.21	mg/L			10/23/24 06:21	1

Lab Sample ID: LCS 500-791804/34
Matrix: Water
Analysis Batch: 791804

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	19.6		mg/L		98	90 - 110
Sulfate	20.0	20.8		mg/L		104	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-791737/3
Matrix: Water
Analysis Batch: 791737

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	5.37		5.0	3.7	mg/L			10/21/24 11:05	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			10/21/24 11:05	1

Lab Sample ID: LCS 500-791737/4
Matrix: Water
Analysis Batch: 791737

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

Lab Sample ID: MB 500-791946/28
Matrix: Water
Analysis Batch: 791946

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			10/22/24 17:46	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			10/22/24 17:46	1

Lab Sample ID: MB 500-791946/3
Matrix: Water
Analysis Batch: 791946

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			10/22/24 14:05	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 500-791946/3
Matrix: Water
Analysis Batch: 791946

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			10/22/24 14:05	1

Lab Sample ID: MB 500-791946/53
Matrix: Water
Analysis Batch: 791946

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			10/22/24 21:17	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			10/22/24 21:17	1

Lab Sample ID: LCS 500-791946/29
Matrix: Water
Analysis Batch: 791946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	99.0		mg/L		99	80 - 120

Lab Sample ID: LCS 500-791946/4
Matrix: Water
Analysis Batch: 791946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	97.0		mg/L		97	80 - 120

Lab Sample ID: LCS 500-791946/54
Matrix: Water
Analysis Batch: 791946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	101		mg/L		101	80 - 120

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 500-790105/1
Matrix: Water
Analysis Batch: 790105

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			10/11/24 01:23	1

Lab Sample ID: LCS 500-790105/2
Matrix: Water
Analysis Batch: 790105

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

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: MB 500-790108/1
Matrix: Water
Analysis Batch: 790108

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			10/11/24 02:54	1

Lab Sample ID: LCS 500-790108/2
Matrix: Water
Analysis Batch: 790108

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	242		mg/L		97	80 - 120

Lab Sample ID: MB 500-790410/1
Matrix: Water
Analysis Batch: 790410

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			10/13/24 21:49	1

Lab Sample ID: LCS 500-790410/2
Matrix: Water
Analysis Batch: 790410

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 500-790148/3
Matrix: Water
Analysis Batch: 790148

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			10/10/24 11:50	1

Lab Sample ID: LCS 500-790148/4
Matrix: Water
Analysis Batch: 790148

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	9.18		mg/L		92	90 - 119

Lab Sample ID: MB 500-791579/31
Matrix: Water
Analysis Batch: 791579

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			10/18/24 15:50	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-791579/32
Matrix: Water
Analysis Batch: 791579

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	9.83		mg/L		98	90 - 119		

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
HEN-257803
SDG: HEN_257_803

Client Sample ID: HEN_08&D
Date Collected: 10/08/24 08:15
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791762	BDE	EET CHI	10/22/24 09:15 - 10/22/24 15:15 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	792031	SJ	EET CHI	10/23/24 12:03
Total Recoverable	Prep	3005A			791759	BDE	EET CHI	10/22/24 09:07 - 10/22/24 15:07 ¹
Total Recoverable	Analysis	6020B		1	792125	RN	EET CHI	10/23/24 16:03
Total/NA	Prep	7470A			791618	MJG	EET CHI	10/21/24 11:05 - 10/21/24 13:05 ¹
Total/NA	Analysis	7470A		1	791808	MJG	EET CHI	10/22/24 08:38
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 00:44
Total/NA	Analysis	300.0		20	791804	W1T	EET CHI	10/23/24 08:42
Total/NA	Analysis	SM 2320B		1	791737	ER	EET CHI	10/21/24 13:21
Total/NA	Analysis	SM 2540C		1	790105	CLB	EET CHI	10/11/24 01:41
Total/NA	Analysis	SM 4500 F C		1	790148	SO	EET CHI	10/10/24 13:30
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/08/24 08:15

Client Sample ID: HEN_12
Date Collected: 10/08/24 09:15
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791762	BDE	EET CHI	10/22/24 09:15 - 10/22/24 15:15 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	792031	SJ	EET CHI	10/23/24 12:08
Total Recoverable	Prep	3005A			791759	BDE	EET CHI	10/22/24 09:07 - 10/22/24 15:07 ¹
Total Recoverable	Analysis	6020B		1	792125	RN	EET CHI	10/23/24 16:06
Total/NA	Prep	7470A			791618	MJG	EET CHI	10/21/24 11:05 - 10/21/24 13:05 ¹
Total/NA	Analysis	7470A		1	791808	MJG	EET CHI	10/22/24 08:40
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 01:47
Total/NA	Analysis	SM 2320B		1	791737	ER	EET CHI	10/21/24 13:31
Total/NA	Analysis	SM 2540C		1	790105	CLB	EET CHI	10/11/24 01:43
Total/NA	Analysis	SM 4500 F C		1	790148	SO	EET CHI	10/10/24 13:34
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/08/24 09:15

Client Sample ID: HEN_13
Date Collected: 10/08/24 08:20
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791762	BDE	EET CHI	10/22/24 09:15 - 10/22/24 15:15 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	792031	SJ	EET CHI	10/23/24 12:12
Total Recoverable	Prep	3005A			791759	BDE	EET CHI	10/22/24 09:07 - 10/22/24 15:07 ¹
Total Recoverable	Analysis	6020B		1	792125	RN	EET CHI	10/23/24 16:08
Total/NA	Prep	7470A			791618	MJG	EET CHI	10/21/24 11:05 - 10/21/24 13:05 ¹
Total/NA	Analysis	7470A		1	791808	MJG	EET CHI	10/22/24 08:42
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 02:18
Total/NA	Analysis	SM 2320B		1	791737	ER	EET CHI	10/21/24 13:40

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_13
Date Collected: 10/08/24 08:20
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2540C		1	790105	CLB	EET CHI	10/11/24 01:46
Total/NA	Analysis	SM 4500 F C		1	790148	SO	EET CHI	10/10/24 13:49
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/08/24 08:20

Client Sample ID: HEN_16
Date Collected: 10/09/24 15:05
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791762	BDE	EET CHI	10/22/24 09:15 - 10/22/24 15:15 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	792031	SJ	EET CHI	10/23/24 13:28
Total Recoverable	Prep	3005A			791759	BDE	EET CHI	10/22/24 09:07 - 10/22/24 15:07 ¹
Total Recoverable	Analysis	6020B		1	792125	RN	EET CHI	10/23/24 17:12
Total/NA	Prep	7470A			791799	MJG	EET CHI	10/22/24 11:40 - 10/22/24 13:40 ¹
Total/NA	Analysis	7470A		1	792003	MJG	EET CHI	10/23/24 10:07
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 14:03
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 16:39
Total/NA	Analysis	SM 2540C		1	790108	CLB	EET CHI	10/11/24 03:14
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 16:15
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/09/24 15:05

Client Sample ID: HEN_16_FD
Date Collected: 10/09/24 15:20
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791762	BDE	EET CHI	10/22/24 09:15 - 10/22/24 15:15 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	792031	SJ	EET CHI	10/23/24 13:41
Total Recoverable	Prep	3005A			791759	BDE	EET CHI	10/22/24 09:07 - 10/22/24 15:07 ¹
Total Recoverable	Analysis	6020B		1	792125	RN	EET CHI	10/23/24 17:14
Total/NA	Prep	7470A			791799	MJG	EET CHI	10/22/24 11:40 - 10/22/24 13:40 ¹
Total/NA	Analysis	7470A		1	792003	MJG	EET CHI	10/23/24 10:10
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 14:19
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 16:48
Total/NA	Analysis	SM 2540C		1	790108	CLB	EET CHI	10/11/24 03:17
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 16:31
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/09/24 15:20

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_17
Date Collected: 10/09/24 14:10
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791762	BDE	EET CHI	10/22/24 09:15 - 10/22/24 15:15 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	792031	SJ	EET CHI	10/23/24 13:46
Total Recoverable	Prep	3005A			791759	BDE	EET CHI	10/22/24 09:07 - 10/22/24 15:07 [1]
Total Recoverable	Analysis	6020B		1	792125	RN	EET CHI	10/23/24 17:17
Total/NA	Prep	7470A			791799	MJG	EET CHI	10/22/24 11:40 - 10/22/24 13:40 [1]
Total/NA	Analysis	7470A		1	792003	MJG	EET CHI	10/23/24 10:12
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 14:34
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 16:57
Total/NA	Analysis	SM 2540C		1	790108	CLB	EET CHI	10/11/24 03:19
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 16:35
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/09/24 14:10

Client Sample ID: HEN_46
Date Collected: 10/09/24 11:30
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791763	BDE	EET CHI	10/22/24 09:18 - 10/22/24 15:18 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	792033	SJ	EET CHI	10/23/24 12:19
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 [1]
Total Recoverable	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 22:17
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 [1]
Total Recoverable	Analysis	6020B		1	792032	RN	EET CHI	10/23/24 11:38
Total/NA	Prep	7470A			791799	MJG	EET CHI	10/22/24 11:40 - 10/22/24 13:40 [1]
Total/NA	Analysis	7470A		1	792003	MJG	EET CHI	10/23/24 10:22
Total/NA	Analysis	300.0		5	791804	W1T	EET CHI	10/23/24 09:13
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 18:07
Total/NA	Analysis	SM 2540C		1	790108	CLB	EET CHI	10/11/24 03:32
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 16:58
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/09/24 11:30

Client Sample ID: HEN_47
Date Collected: 10/09/24 12:40
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791763	BDE	EET CHI	10/22/24 09:18 - 10/22/24 15:18 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	792033	SJ	EET CHI	10/23/24 12:24
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 [1]
Total Recoverable	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 22:20
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 [1]
Total Recoverable	Analysis	6020B		1	792032	RN	EET CHI	10/23/24 11:41
Total/NA	Prep	7470A			791799	MJG	EET CHI	10/22/24 11:40 - 10/22/24 13:40 [1]
Total/NA	Analysis	7470A		1	792003	MJG	EET CHI	10/23/24 10:25

Lab Chronicle

Client Sample ID: HEN_47
Date Collected: 10/09/24 12:40
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	300.0		5	791804	W1T	EET CHI	10/23/24 09:28
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 18:16
Total/NA	Analysis	SM 2540C		1	790108	CLB	EET CHI	10/11/24 03:35
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 17:30
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/09/24 12:40

Client Sample ID: HEN_07
Date Collected: 10/10/24 09:20
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791763	BDE	EET CHI	10/22/24 09:18 - 10/22/24 15:18 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	792033	SJ	EET CHI	10/23/24 13:09
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 [1]
Total Recoverable	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 22:45
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 [1]
Total Recoverable	Analysis	6020B		1	792032	RN	EET CHI	10/23/24 12:09
Total/NA	Prep	7470A			791799	MJG	EET CHI	10/22/24 11:40 - 10/22/24 13:40 [1]
Total/NA	Analysis	7470A		1	792003	MJG	EET CHI	10/23/24 10:44
Total/NA	Analysis	300.0		5	791383	MB	EET CHI	10/19/24 07:15
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 22:30
Total/NA	Analysis	SM 2540C		1	790108	CLB	EET CHI	10/11/24 03:53
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 17:44
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/10/24 09:20

Client Sample ID: HEN_08
Date Collected: 10/10/24 09:20
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791763	BDE	EET CHI	10/22/24 09:18 - 10/22/24 15:18 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	792033	SJ	EET CHI	10/23/24 13:13
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 [1]
Total Recoverable	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 22:47
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 [1]
Total Recoverable	Analysis	6020B		1	792032	RN	EET CHI	10/23/24 12:12
Total/NA	Prep	7470A			791799	MJG	EET CHI	10/22/24 11:40 - 10/22/24 13:40 [1]
Total/NA	Analysis	7470A		1	792003	MJG	EET CHI	10/23/24 10:46
Total/NA	Analysis	300.0		5	791383	MB	EET CHI	10/19/24 07:47
Total/NA	Analysis	300.0		20	791804	W1T	EET CHI	10/23/24 12:36
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 22:40
Total/NA	Analysis	SM 2540C		1	790410	CLB	EET CHI	10/13/24 22:14
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 17:48

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_08
Date Collected: 10/10/24 09:20
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/10/24 09:20

Client Sample ID: HEN_52
Date Collected: 10/10/24 08:10
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791763	BDE	EET CHI	10/22/24 09:18 - 10/22/24 15:18 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	792033	SJ	EET CHI	10/23/24 13:18
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 ¹
Total Recoverable	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 22:50
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 ¹
Total Recoverable	Analysis	6020B		1	792032	RN	EET CHI	10/23/24 12:14
Total/NA	Prep	7470A			791799	MJG	EET CHI	10/22/24 11:40 - 10/22/24 13:40 ¹
Total/NA	Analysis	7470A		1	792003	MJG	EET CHI	10/23/24 10:48
Total/NA	Analysis	300.0		5	791383	MB	EET CHI	10/19/24 08:02
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 22:50
Total/NA	Analysis	SM 2540C		1	790410	CLB	EET CHI	10/13/24 22:17
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 17:53
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/10/24 08:10

Client Sample ID: HEN_54
Date Collected: 10/10/24 08:15
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791763	BDE	EET CHI	10/22/24 09:18 - 10/22/24 15:18 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	792033	SJ	EET CHI	10/23/24 13:22
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 ¹
Total Recoverable	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 22:52
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 ¹
Total Recoverable	Analysis	6020B		1	792032	RN	EET CHI	10/23/24 12:16
Total/NA	Prep	7470A			791799	MJG	EET CHI	10/22/24 11:40 - 10/22/24 13:40 ¹
Total/NA	Analysis	7470A		1	792003	MJG	EET CHI	10/23/24 10:50
Total/NA	Analysis	300.0		5	791383	MB	EET CHI	10/19/24 08:18
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 23:00
Total/NA	Analysis	SM 2540C		1	790410	CLB	EET CHI	10/13/24 22:20
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 17:58
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/10/24 08:15

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

Client Sample ID: HEN_54_FD
Date Collected: 10/10/24 08:25
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			791763	BDE	EET CHI	10/22/24 09:18 - 10/22/24 15:18 [1]
Total Recoverable	Analysis	200.7 Rev 4.4		1	792033	SJ	EET CHI	10/23/24 13:27
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 [1]
Total Recoverable	Analysis	6020B		1	791955	RN	EET CHI	10/22/24 22:55
Total Recoverable	Prep	3005A			791760	BDE	EET CHI	10/22/24 09:09 - 10/22/24 15:09 [1]
Total Recoverable	Analysis	6020B		1	792032	RN	EET CHI	10/23/24 12:19
Total/NA	Prep	7470A			791799	MJG	EET CHI	10/22/24 11:40 - 10/22/24 13:40 [1]
Total/NA	Analysis	7470A		1	792003	MJG	EET CHI	10/23/24 10:52
Total/NA	Analysis	300.0		5	791383	MB	EET CHI	10/19/24 08:34
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 23:09
Total/NA	Analysis	SM 2540C		1	790410	CLB	EET CHI	10/13/24 22:22
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 18:03
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/10/24 08:25

Client Sample ID: HEN_55
Date Collected: 10/07/24 11:57
Date Received: 10/08/24 11:17

Lab Sample ID: 500-258038-39
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/07/24 11:57

Client Sample ID: HEN_XSG01
Date Collected: 10/07/24 11:32
Date Received: 10/08/24 11:17

Lab Sample ID: 500-258038-40
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/07/24 11:32

Client Sample ID: HEN_SG02_YSG_ILRIVER
Date Collected: 10/07/24 10:25
Date Received: 10/08/24 11:17

Lab Sample ID: 500-258038-41
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/07/24 10:25

[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: HEN-24Q4

Job ID: 500-258038-7
SDG: HEN_257_803

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	Groundwater Elevation
Field Sampling		Water	Oxidation Reduction Potential
Field Sampling		Water	Oxygen, Dissolved
Field Sampling		Water	Specific Conductance
Field Sampling		Water	Turbidity
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address:	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000		Residual Chlorine (Y/N)	500-258038 COC Project No./ Lab I.D.
1	HEN_02			1017	1615																			X		A			SHORT HOLD - NO2
2	HEN_03R																X	X				X			X		B			~~SHORT HOLD - NO2~~
3	HEN_03R_FD																X	X				X			X		B			SHORT HOLD - NO2
4	HEN_05&DR																				X						E			~~SHORT HOLD - NO2~~
5	HEN_05IR																				X						E			~~SHORT HOLD - NO2~~
6	HEN_07																X	X	X			X	X		X		B			~~SHORT HOLD - NO2~~
7	HEN_08																X	X	X		X	X	X		X		C			~~SHORT HOLD - NO2~~
8	HEN_08&D																X	X	X		X	X	X		X		C			~~SHORT HOLD - NO2~~
9	HEN_10			1017	1555																X				X		D			SHORT HOLD - NO2
10	HEN_12																X		X		X		X				F			~~SHORT HOLD - NO2~~
11	HEN_13																X		X		X		X				F			~~SHORT HOLD - NO2~~
12	HEN_16																X		X				X				G			
13	HEN_16_FD																X		X				X				G			
14	HEN_17																X		X				X				G			
15	HEN_18&D																X	X				X			X		B			~~SHORT HOLD - NO2~~
16	HEN_18#S																X	X				X			X		B			~~SHORT HOLD - NO2~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	[signature]	10/24	0700	[signature]	10/18/24	0917	1.6 / 1.5
	[signature]	10/18/24	1117	Stephanie Hernandez JEEM	10/18/24	1117	

dbm 103024

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	Lorne E. Lewicz					
SIGNATURE of SAMPLER	[signature]	DATE Signed (MM/DD/YY) 10 7 24				

10/31/24

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information

Company:	Vistra Corp-Hennepin
Address:	13498 E 800th St
	Hennepin, IL 61327
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information:

Attention:	Brian Voelker
Company Name:	Vistra Corp
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_21R																	X			X				X		X	H		MS/MSD
2	HEN_22																	X			X				X		X	H		
3	HEN_22&D																	X			X				X		X	H		
4	HEN_23																	X			X				X		X	H		
5	HEN_27																	X			X				X		X	H		
6	HEN_32																	X			X				X		X	H		
7	HEN_34																	X			X				X		X	H		
8	HEN_35																	X			X				X		X	H		
9	HEN_35_FD																	X			X				X		X	H		
10	HEN_40#S																					X						E		SHORT HOLD - NO2
11	HEN_45#S																	X	X				X			X		B		SHORT HOLD - NO2
12	HEN_46																	X		X				X				G		
13	HEN_47																	X		X				X				G		
14	HEN_49																	X			X				X		X	H		MS/MSD
15	HEN_50																	X			X				X		X	H		
16	HEN_51																	X			X				X		X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Fleurez	10-24	0700	M.J. Ellian	10/8/24	0917	
	M.J. Ellian	10/8/24	1117	Stephanie Hernandez EEIA	10/8/24	1117	

8 dbn 103024

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Fleurez

SIGNATURE of SAMPLER: Lorne Fleurez

DATE Signed (MM/DD/YY): 10-7-24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address:	13498 E 800th St
	Hennepin, IL 61327
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information

Attention:	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_52																	X		X				X				G		
2	HEN_54																	X		X				X				G		
3	HEN_54_FD																	X		X				X				G		
4	HEN_55																			X				X				I		DTW ONLY
5	HEN_SG02_YSG_IL_River																		X	X	X	X	X	X	X	X	X	I		DTW ONLY
6	HEN_XSG01																			X				X				I		DTW ONLY
7	HEN_FB																	X				X	X			X		C		SHORT HOLD NO2
8	HEN_TB1			10/7/24	00:00																					X		A		BTEX ONLY
9	HEN_TB2																									X		A		BTEX ONLY
10																														
11																														
12																														
13																														
14																														
15																														
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Filewicz	10/7/24	0700	N. J. Ellian	10/8/24	0917	
	N. J. Ellian	10/8/24	1117	Stephanie Hernandez EETA	10/8/24	1117	

8 dbn 10/30/24

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 10 7 24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Sample date and default time added - dbn 102824

HEN-2574803

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

500-258038 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 /)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_02																							X		A		SHORT HOLD - NO2
2	~~HEN_03R~~															X	X				X			X		B		SHORT HOLD - NO2
3	~~HEN_03R_FD~~															X	X				X			X		B		SHORT HOLD - NO2
4	HEN_05&DR			10/8/24	0930															X						E		SHORT HOLD - NO2
5	HEN_05IR			10/8/24	1030															X						E		SHORT HOLD - NO2
6	~~HEN_07~~															X	X	X			X	X		X		B		SHORT HOLD - NO2
7	~~HEN_08~~															X	X	X		X	X	X		X		C		SHORT HOLD - NO2
8	HEN_08&D			10/8/24	0815											X	X	X		X	X	X		X		C		SHORT HOLD - NO2
9	~~HEN_10~~																			X				X		D		SHORT HOLD - NO2
10	HEN_12			10/8/24	0915											X		X		X		X				F		SHORT HOLD - NO2
11	HEN_13			10/8/24	0820											X		X		X		X				F		SHORT HOLD - NO2
12	~~HEN_16~~															X		X				X				G		
13	~~HEN_16_FD~~															X		X				X				G		
14	~~HEN_17~~															X		X				X				G		
15	HEN_18&D			10/8/24	1250											X	X				X			X		B		SHORT HOLD - NO2
16	HEN_18#S			10/8/24	1150											X	X				X			X		B		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Filewicz	10-8-24	1500	[signature]	10/9/24	0909	
	[signature]	10/9/24	1200	[signature]	10/9/24	1200	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lorne Filewicz
SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 10-8-24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

1.6→1.5, 3.6→3.5, 3.3→3.2
4.3→4.2, 3.9→3.8

Sample dates added - dbn 102824

500-278038-8

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 2 of 3

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information.	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention.	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name:	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE:	IL	

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_21R			10/8/24	1600											X			X				X		X	H		MS/MSD
2	HEN_22															X			X				X		X	H		
3	HEN_22&D															X			X				X		X	H		
4	HEN_23															X			X				X		X	H		
5	HEN_27			10/8/24	1155											X			X				X		X	H		
6	HEN_32			10/8/24	1105											X			X				X		X	H		
7	HEN_34			10/8/24	1345											X			X				X		X	H		
8	HEN_35			10/8/24	1435											X			X				X		X	H		
9	HEN_35_FD			10/8/24	1440											X			X				X		X	H		
10	HEN_40#S			10/8/24	1430															X						E		SHORT HOLD - NO2
11	HEN_45#S															X	X				X			X		B		SHORT HOLD - NO2
12	HEN_46															X		X				X				G		
13	HEN_47															X		X				X				G		
14	HEN_49															X			X				X		X	H		MS/MSD
15	HEN_50															X			X				X		X	H		
16	HEN_51															X			X				X		X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Filarz	10824	1500	M.A. Elliott	10/9/24	0908	
	M.J. Ellis	10/9/24	1200	[illegible]	10/9/24	1200	

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	Lorne Filarz					
SIGNATURE of SAMPLER	Lorne Filarz	DATE Signed (MM/DD/YY) 10-8-24				

Sample dates added - dbn 102824

600-258034

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 3 of 3

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To.	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 /)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_52																X		X				X				G		
2	HEN_54																X		X				X				G		
3	HEN_54_FD																X		X				X				G		
4	HEN_55																		X				X				I		DTW ONLY
5	HEN_SG02_YSG_IL_River																	X	X	X	X	X	X	X	X	X	I		DTW ONLY
6	HEN_XSG01																		X				X				I		DTW ONLY
7	HEN_FB																X				X	X			X		C		SHORT HOLD NO2
8	HEN_TB1																								X		A		BTEX ONLY
9	HEN_TB2			10/8/24	00:00																				X		A		BTEX ONLY
10																													
11																													
12																													
13																													
14																													
15																													
16																													

18

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Filewicz	10 8 24	1500	T.J. Eckin	10/8/24	0909	
	T.J. Eckin	10/9/24	1200	Kathi Scott	10/9/24	1200	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 10-8-24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Sample date and default time added - dbn 102824

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 1 of 3

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information	
Company	Vistra Corp-Hennepin	Report To	Brian Voelker	Attention	Brian Voelker
Address	13498 E 800th St	Copy To	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager	
Requested Due Date/TAT	10 day	Project Number	50023030	Profile #	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	~~HEN_02~~																				X			X		A		~~SHORT HOLD - NO2~~
2	HEN_03R			10-9-24	1015												X	X				X			X		B		SHORT HOLD - NO2
3	HEN_03R_FD			10-9-24	1030												X	X				X			X		B		SHORT HOLD - NO2
4	~~HEN_05&DR~~																				X					E		~~SHORT HOLD - NO2~~
5	~~HEN_05IR~~																				X					E		~~SHORT HOLD - NO2~~
6	~~HEN_07~~																X	X	X			X	X		X		B		~~SHORT HOLD - NO2~~
7	~~HEN_08~~																X	X	X		X	X	X		X		C		~~SHORT HOLD - NO2~~
8	~~HEN_08&D~~																X	X	X		X	X	X		X		C		~~SHORT HOLD - NO2~~
9	~~HEN_10~~																				X				X		D		~~SHORT HOLD - NO2~~
10	~~HEN_12~~																X		X		X		X				F		~~SHORT HOLD - NO2~~
11	~~HEN_13~~																X		X		X		X				F		~~SHORT HOLD - NO2~~
12	HEN_16			10-9-24	1505												X		X				X				G		
13	HEN_16_FD			10-9-24	1520												X		X				X				G		
14	HEN_17			10-9-24	1410												X		X				X				G		
15	~~HEN_18&D~~																X	X				X			X		B		~~SHORT HOLD - NO2~~
16	~~HEN_18#S~~																X	X				X			X		B		~~SHORT HOLD - NO2~~

500-258038 COC

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Filewicz	101024	0800	T.J. Ellen	10/10/24	0900	
	T.J. Ellen	10/10/24	1110	Stephanie Hemondy EEIA	10/10/24	1110	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz

DATE Signed (MM/DD/YY): 101024

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

5.0+4.9, 5.3+5.2, 5.4+5.3, 4.1+4.0
5.1+5.0

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 2 of 3

Section A Required Client Information		Section B Required Project Information.		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	~~HEN_21R~~																X			X				X		X	H		MS/MSD
24 2	HEN_22			10-9-24	1425												X			X				X		X	H		
25 3	HEN_22&D			10-9-24	1350												X			X				X		X	H		
26 4	HEN_23			10-9-24	1015												X			X				X		X	H		
5	~~HEN_27~~																X			X				X		X	H		
6	~~HEN_32~~																X			X				X		X	H		
7	~~HEN_34~~																X			X				X		X	H		
8	~~HEN_35~~																X			X				X		X	H		
9	~~HEN_35_FD~~																X			X				X		X	H		
10	~~HEN_40#S~~																				X						E		SHORT HOLD - NO2
27 11	HEN_45#S			10-9-24	0900												X	X				X			X		B		SHORT HOLD - NO2
28 12	HEN_46			10-9-24	1130												X		X				X				G		
29 13	HEN_47			10-9-24	1240												X		X				X				G		
30 14	HEN_49			10-9-24	1105												X			X				X		X	H		MS/MSD
31 15	HEN_50			10-9-24	1305												X			X				X		X	H		
32 16	HEN_51			10-9-24	0905												X			X				X		X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Flowers	101024	0800	R. J. Ellis	10/10/24	0900	
	R. J. Ellis	10/10/24	1110	Stephanie Hermanson/JEET A	10/10/24	1110	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Flowers

SIGNATURE of SAMPLER: Lorne Flowers — DATE Signed (MM/DD/YY): 10-10-24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

500-256036-1

CHAIN-OF-CUSTODY / Analytical Request Document

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Page 3 of 3

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax:
Requested Due Date/TAT	10 day

Section B Required Project Information.

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information.

Attention:	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_32																X		X				X				G	
2	HEN_54																X		X				X				G	
3	HEN_54_FD																X		X				X				G	
4	HEN_55																		X				X				I	DTW ONLY
5	HEN_SG02_YSG_IL_River																	X	X	X	X	X	X	X	X	X	I	DTW ONLY
6	HEN_XSG01																		X				X				I	DTW ONLY
7	HEN_FB																X				X	X			X		G	SHORT HOLD NO2
8	HEN_TB1																								X		A	BTEX ONLY
9	HEN_TB2																								X		A	BTEX ONLY
10																												
11																												
12																												
13																												
14																												
15																												
16																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	George Filewicz	10/10/24	0800	B. J. Ellam	10/10/24	0900	
	B. J. Ellam	10/10/24	1110	Stephanie Hammond EEP	10/10/24	1110	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George Filewicz

SIGNATURE of SAMPLER: George Filewicz DATE Signed (MM/DD/YY): 10-10-24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

500-258038

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 1 of 3

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax
Requested Due Date/TAT	10 day

Section B Required Project Information

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information:

Attention:	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

500-258038 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_02																							X		A		~~SHORT HOLD - NO2~~
2	HEN_03R																X	X				X		X		B		SHORT HOLD - NO2
3	HEN_03R_FD																X	X				X		X		B		SHORT HOLD - NO2
4	HEN_05&DR																				X					E		~~SHORT HOLD - NO2~~
5	HEN_05IR																				X					E		~~SHORT HOLD - NO2~~
6	HEN_07			10/02/24	0926												X	X	X			X	X	X		B		SHORT HOLD - NO2
7	HEN_08			10/02/24	0920												X	X	X		X	X	X	X		C		SHORT HOLD - NO2
8	HEN_08&D																X	X	X		X	X	X	X		C		SHORT HOLD - NO2
9	HEN_10																				X			X		D		~~SHORT HOLD - NO2~~
10	HEN_12																X		X		X		X			F		~~SHORT HOLD - NO2~~
11	HEN_13																X		X		X		X			F		~~SHORT HOLD - NO2~~
12	HEN_16																X		X				X			G		
13	HEN_16_FD																X		X				X			G		
14	HEN_17																X		X				X			G		
15	HEN_18&D																X	X				X		X		B		SHORT HOLD - NO2
16	HEN_18#S																X	X				X		X		B		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Fitzwater	10/02/24	1248				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Fitzwater

SIGNATURE of SAMPLER: Lorne Fitzwater DATE Signed (MM/DD/YY): 10/02/24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

14.1 -> 13.6 lb2-75.9

Accepted by: David Kowalski 10/10/24 12:16

dbn 102824

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803
APPENDIX A.

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10/31/24

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Section A Required Client Information

Company	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax:
Requested Due Date/TAT	10 day

Section B Required Project Information

Report To	Brian Voelker
Copy To	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number	50023030

Section C Invoice Information

Attention	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_52			10.10.24	0810												X		X				X				G		
2	HEN_54			101024	0815												X		X				X				G		
3	HEN_54_FD			101024	0825												X		X				X				G		
4	~~HEN_55~~																		X				X				I		DTW ONLY
5	~~HEN_SG02_YSG_IL_River~~																	X	X	X	X	X	X	X	X	X	I		DTW ONLY
6	~~HEN_XSG01~~																		X				X				I		DTW ONLY
7	HEN_FB			101024	0900												X					X	X		X		C		SHORT HOLD NO2
8	~~HEN_TB1~~																								X		A		BTEX ONLY
9	~~HEN_TB2~~																								X		A		BTEX ONLY
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0		101024	1245				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George Fleming

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 101024

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Accepted by: 10/10/24 12:46

dbn 102824

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10/31/24

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-258038-7
SDG Number: HEN_257_803

Login Number: 258038
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.(33-38 sampled10/10)
Cooler Temperature is recorded.	True	1.5,1.5,3.5,3.2,4.2,3.8,4.9,5.2,5.3,4.0,5.0,13.8,5.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date and/or time on COC, logged in per container labels.
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.	False	No date or time on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

SAR-3: Plant Sampling and Analysis Request
Event: HEN-24Q4
Date Generated: 09/12/2024
All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
02	HEN_02	10/7	1256	45.82	DTD 51.32	
04R	HEN_04R	10/7	1111	40.42	DTB 45.32	
05DR	HEN_05&DR	10/7	1102	42.27	71.24	
05R	HEN_05!R	10/7	1107	42.22	49.68 DTD	
06	HEN_06	10/7	1048	23.64	33.27	
10	HEN_10	10/7	1204	Dry	51.49 DTD	
11	HEN_11	10/7	1206	61.99	69.55 DTD	No dedi. pump
15	HEN_15	10/7	1139	50.33	DTB 52.83	
19#SR	HEN_19#SR	10/7	1122	38.47	DTB 51.58	
19D	HEN_19&D	10/7	1125	40.94	DTD 45.47	
25	HEN_25	10/7	0825	16.65	17.88	
26	HEN_26	10/7	0820	16.84	22.32	
30	HEN_30	10/7	1430	6.97	34.72	
31	HEN_31	10/7	1433	7.23	10.02	
33	HEN_33	10/7	1012	4.21	38.22	
36	HEN_36	10/7	0830	16.09	DTB 28.86	
40S	HEN_40#S	10/7	1118	41.43	DTD 42.41	
45S	HEN_45#S	10/7	1605	21.20	DTB 38.67	
48R	HEN_48R	10/7	1115	41.72	57.15	
53	HEN_53	10/7	1215	56.52	DTD 66.68	
SG02	HEN_YSG_ILRIVER	10/7	1025	No water	at reading point	Elevation = 441.0 ft dbn 102824
XPW01	HEN_XPW01_pore	10/7	1220	12.24	DTD 19.68	
XPW02	HEN_XPW02_pore	10/7	1225	17.42	DTD 21.75	
XPW03	HEN_XPW03_pore	10/7	1159	9.72	DTD 21.95	

C: 9/12/24 JRK

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○ = conductivity

SAR-4: Plant Sampling and Analysis Request
Event: HEN-24Q4
Date Generated: 09/12/2024
All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Serial Number	Does Data Logger Serial No Match?	WL Reading on Transducer (ft)	Data downloaded	Batt (H/M/L/R)	Comments	Initials
03R	HEN_03R	10/7	1052	36.01	21615140	Yes	446.2183	Yes	High	ANT Nest	
07	HEN_07	10/7	1324	69.10	21615139	Yes	449.3102	Yes	High		
08	HEN_08	10/7	1231	54.71	21615138	Yes	446.8147	Yes	High		
08D	HEN_08&D 10/7	[illegible]	[illegible]	55.12	21921673	Yes	446.352	Yes	High		
12	HEN_12	10/7	1151	Dry	21615520	Yes	446.4838	Yes	High	Dry	
13	HEN_13	10/7	1153	52.22	21615515	Yes	443.1015	Yes	High		
16	HEN_16	10/7	1239	55.28	21615534	Yes	446.2723	Yes	High		
☆ 17	HEN_17	10/7	1136	56.83	21615500	Yes	[illegible]	~~Yes~~	High	Battery replaced	
18D	HEN_18&D	10/7	1051	41.99	21615609	Yes	445.3572	Yes	High		
18S	HEN_18#S	10/7	1059	41.63	21615482	Yes	446.4641	Yes	High		
21R	HEN_21R	10/7	0944	60.72	21615613	Yes	445.472	Yes	High		
22	HEN_22	10/7	1017	19.13	21615497	Yes	445.52	Yes	Med/High		
22D	HEN_22&D	10/7	10.14	20.04	21564134	Yes	445.7222	Yes	High		
23	HEN_23	10/7	10:06	17.62	21615600	Yes	446.972	Yes	Med		
☆ 27	HEN_27	10/7	1442	4.82	21615576	Yes	[illegible]	Yes	High	Battery replaced	
32	HEN_32	10/7	1006	17.62	21615487	Yes	446.1640	Yes	Med		
34	~~10/7~~	~~10:22~~	~~30.20~~		No transducer						
35	HEN_35	10/7	0827	9.05	21615510	Yes	446.1247	Yes	High		
46	HEN_46	10/7	1141	52.22	21615491	Yes	446.2267	Yes	High		
47	HEN_47	10/7	1202	56.71	21615505	Yes	446.3844	Yes	High		
49	HEN_49	10/7	1011	22.35	21629307	Yes	446.0356	Yes	High		
☆ 50	HEN_50	10/7	1021	18.99	21615489	Yes	[illegible]	Yes	High	Battery replaced	
51	HEN_51	10/7	1001	19.45	21615608	Yes	445.5178	Yes	High		
52	HEN_52	10/7	1212	54.84	21615145	Yes	446.34	Yes	High		
54	HEN_54	10/7	1200	54.19	21615143	Yes	446.2062	Yes	High		
55	HEN_55	10/7	1157	52.32	21615612	Yes	446.9615	Yes	High		
☆ SG03	HEN_YSG03	10/7		27.9	21768088	Yes	446.397	~~Yes~~	—	No water ← river low	
☆ XSG01	HEN_XSG01	10/7	1132	10.55	21768087	Yes	482.9950	Yes	Med	batt. replaced	
☆ RG01	HEN_RG01				21628684						

C: 9/12/24 JRK

Hen 10 · 1555

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10 / 7 /2024 Time: 1545
Field Personnel: Lorne Finish Date: Same Time: 1615

WELL INFORMATION

Well ID: 02
Casing ID: 2 inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow
YSI SERIAL NO: 24A 101226
Heron Serial NO: 120F2403163744B

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1545		44.82								Clear
Purge	5	1555		44.89		13.1	6.93	716	7.54	41.92	118.0	
	10	1600		44.92		13.0	6.93	715	7.39	42.01	119.0	
	15	1605		44.92		13.0	6.98	713	7.39	43.09	120.6	
*******	20	1610		44.94		12.9	6.92	710	7.37	42.90	122.8	
	25	1615	4Gal	44.95		12.8	6.92	708	7.37	42.02	125.0	↓
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 02
Sampled @ 1615 on 10/7/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/9/2024 Time: 0935
Field Personnel: Lorne Finish Date: Same Time: 1015

WELL INFORMATION

Well ID: 03R
Casing ID: 2 Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow
YSI SERIAL NO: 24A101226
Heron Serial NO: 12DF2403163HB

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	0935		35.92								Clear
Purge	5	0940		35.95		17.8	7.15	732	2.66	29.05	84.9	
	10	0945		35.95		17.7	7.14	732	1.87	9.71	86.3	
	15	0950		35.95		17.9	7.13	728	1.56	9.42	85.7	
*******	20	0955		35.95		17.8	7.12	725	1.66	9.40	83.9	
	25	1000		35.95		17.8	7.12	728	1.59	8.93	83.1	
	30	1005		35.95		17.9	7.11	729	1.50	7.24	81.9	
	35	1015	4GAL	35.95		17.8	7.11	730	1.45	7.01	80.7	
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 03R
Sampled @ 1015 on 10/9/24

Dupe @ 1030

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 6054 Task #: Start Date: 10/8 /2024 Time: 0955
Field Personnel: Lorne Finish Date: Same Time:

WELL INFORMATION

Well ID: 05R
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow

YSI SERIAL NO: 24A1601226
Heron Serial NO: i2DF240 3163HB

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	0955		42.20								Clear
Purge	5	1000		42.20		17.7	7.40	737	3.60	12.70	36.1	
	10	1005		42.20		17.8	7.35	727	2.10	9.30	2.0	
	15	1015		42.20		17.8	7.35	727	2.01	7.04	13.2	
*******	20	1020		42.20		17.9	7.35	727	1.91	7.34	14.3	
	25	1025		42.20		17.9	7.34	727	1.86	6.88	16.8	
	30	1030		42.20		18.0	729	727	1.79	5.98	16.9	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 05R
Sampled @ 1030 on 10/8 / 24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 65R Task #: Start Date: 10/8/2024 Time: 0900
Field Personnel: Lorne Finish Date: Same Time: 0930

WELL INFORMATION

Well ID: 05D
Casing ID: 2 Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow

YSI SERIAL NO: 24A101226
Heron Serial NO: 12DF2403163 HB

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	0905		42.19								Clear
Purge	5	0910		42.19		17.0	7.57	738	1.73	63.91	93.0	
	10	0915		42.19		17.0	7.56	738	1.59	59.00	91.4	
	15	0920		42.19		17.1	7.56	738	1.84	30.10	88.8	
*******	20	0925		42.19		17.2	7.56	738	1.99	30.21	87.9	
	25	0930	3 Gal	42.19		17.2	7.56	738	2.03	31.01	87.6	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 05D
Sampled @ 0930 on 10/8/24

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/10/2024 Time: 0845
Field Personnel: B. Arony Finish Date: 10/10/2024 Time: 0940

WELL INFORMATION

Well ID: 7
Casing ID: Inches

EVENT TYPE

Well Development
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	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	0850	—	69.07	—	—	—	—	—	—	—	—
Purge	5	0855	0.5	69.02	—	11.5	6.83	1145	5.96	9.84	102.5	Clear
	10	0900	1	"		11.4	6.79	1150	5.74	5.78	109.6	
	15	0905	2	69.02		11.4	6.78	1147	5.61	2.44	111.7	
*******	20	0910	2.5	69.03		11.5	6.70	1143	5.66	1.83	111.9	
↓	25	0915	3	69.06		11.5	6.79	1144	5.60	5.10	112.7	↓
Sample	30	0920	4									
	35	0925										
Final	40	0930	5	69.07								
	45	0935										
	50											
	55											
	60											

NOTES (continued)

Sample ID: Hen-7
Sampled @0920 on: 10/10/2024

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 Celcius

Hen 7
10/10/2024
@ 0920

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/10/2024 Time: 0855
Field Personnel: Lorne Finish Date: Same Time: 0920

WELL INFORMATION

Well ID: 08
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow

YSI SERIAL NO: 24A101226
Heron Serial NO: 120F240316 3HB

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	0855		54.52								Cloudy
Purge	5	0900		" "		13.8	6.51	1514	2.30	7.10	143.2	
	10	0905		" "		13.8	6.48	1532	2.00	8.60	145.3	
	15	0910		" "		13.7	6.47	1541	1.95	9.01	145.8	
*******	20	0915		" "		13.7	6.47	1546	1.90	9.62	146.0	
	25	0920	3 Gal	54.52		13.7	6.47	1549	1.89	9.91	145.4	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 08
Sampled @ 0920 on 10 10 24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 6054 Task #: Start Date: 10/8/2024 Time: 0750
Field Personnel: Lorne Finish Date: Same Time: 0815

WELL INFORMATION

Well ID: OBD
Casing ID: 2" (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow

YSI SERIAL NO: 24A1012246
Heron Serial NO: 120F2403163HB

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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		55.09								Clear
Purge	5	0755		55.09		13.0	4.07	1680	3.95	9.66	102.9	"
	10	0800		55.09		13.0	6.66	1668	1.78	9.05	118.1	"
	15	0805		55.09		13.0	6.65	1670	1.61	9.01	121.0	"
*******	20	0810		55.09		13.1	6.65	1674	1.60	7.00	123.0	"
	25	0815	2.5	55.09		13.1	6.65	1675	1.58	6.33	123.9	↓
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: OBD
Sampled @0815 on 10/8/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 7/7/2024 Time: 1530
10 dbn 102824
Field Personnel: G. Austin Finish Date: Time:

WELL INFORMATION

Well ID: 10
Casing ID: Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow

YSI SERIAL NO: 4K1474X
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	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	1530	—			—	—	—	—	—	—	—
Purge	5	1535	0			18.4	6.84	1015	6.02	28.67	94.8	Clear
↓	10	1540	1			20.0	6.87	1004	1.06	3.45	73.1	Clear
↓	15	1545	1.5			20.1	6.87	1004	1.02	3.38	70.0	" "
*******	20	1550	2.5			20.0	6.87	1004	0.91	2.86	63.6	" "
Sample	25	1555	3									
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID:
Sampled @ on 7/7/2024
10 dbn 102824

DTO: 52.27

@ 1555
ID: Hen_10
Water meter Above pump / no reading

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 10 / 8 /2024 Time: 0830
Field Personnel: C. Assaly Finish Date: 10/8/24 Time:

WELL INFORMATION

Well ID: 12
Casing ID: Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow

YSI SERIAL NO: 21014744
Heron Serial NO: 21029160

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	—	No detect.	—	—	—	—	—	—	—	—
Purge	5	0835	—	↓	—	17.8	7.19	774	5.87	2.54	87.6	Clear
↓	10	0840	0.5		—	19.2	7.25	868	2.65	2.55	81.6	↓
↓	15	0845	1		—	19.3	7.25	869	1.91	1.94	69.6	
*******	20	0850	1.5		—	19.3	7.24	870	1.63	2.21	57.4	
↓	25	0855	2		—	19.4	7.24	870	1.57	6.68	96.5	
	30	0900	3		—	19.4	7.24	870	1.57	2.08	56.4	
	35	0905	3.5		—	19.4	7.24	870	1.56	2.08	55.6	
↓	40	0910	4		—	19.4	7.24	871	1.74	2.79	55.3	↓
Sample	45	0915	4.5	—	—	—	—	—	—	—	—	—
	50											
	55											
	60											

NOTES (continued)

Sample ID: 12
Sampled @ on 10/8/2024

Water not detectable at bottom
52 ft

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

ⓐ 0915
10/8/24
Hen-12

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 13 Task #: Start Date: 10/8/2024 Time: 0740
Field Personnel: George Anding Finish Date: 10/8/24 Time: 0828

WELL INFORMATION

Well ID: 13
Casing ID: Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow

YSI SERIAL NO: 21014794
Heron Serial NO: 21527116

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	0745	—	52.21	—	—	—	—	—	—	—	—
Purge	5	0750	0.5	52.22		18.6	7.32	857	3.72	6.54	104.4	Clear
↓	10	0755	1	52.21		18.3	7.31	864	1.55	2.65	88.8	"
↓	15	0800	1.5	52.19		18.3	7.31	865	1.54	3.38	76.2	"
*******	20	0805	2	52.20		18.3	~~7.30~~ 7.31	865	1.34	2.17	66.8	"
Purge	25	0810	2.5	52.19		18.3	7.30	865	1.54	5.71	60.0	"
↓	30	0815	3.5	52.21		18.4	7.30	865	1.37	3.06	57.4	"
Sample	35	0820	—	—	—	—	—	—	—	—	—	—
Final	40	0828	—	—	—	—	—	—	—	—	—	—
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: Hen_13
Sampled @ on 10/8/2024

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 Celcius

Hen_13
@0820

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/9/2024 Time: 1440
Field Personnel: Lorne Finish Date: Same Time: 1505

WELL INFORMATION

Well ID: 16
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow

YSI SERIAL NO: 24A101224
Heron Serial NO: 12DF240326034B

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1440		55.15								Clear
Purge	5	1445		55.15		24.4	7.00	732	2.42	6.39	137.1	
	10	1450		55.15		21.5	6.99	735	2.18	5.63	134.6	
	15	1455		55.15		21.4	6.99	736	2.12	5.31	132.4	
*******	20	1500		55.15		21.5	6.99	735	2.07	5.16	132.0	
	25	1505	3.6 Gal	55.15		21.4	6.99	736	2.06	5.24	130.9	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 16
Sampled @ 1505 on 10/9/2024

Dupe @ 1520

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing
na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential
SEC - Specific Electrical Conductance
SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/9/2024 Time: 1335
Field Personnel: Lorne Finish Date: Same Time: 1410

WELL INFORMATION

Well ID: 17
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow

YSI SERIAL NO: 24A101226
Heron Serial NO: 120F240316365

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1340		56.30								Clear
Purge	5	1345		56.30		22.6	7.03	761	5.05	43.77	134.0	
	10	1350		56.30		22.5	7.04	762	5.02	55.97	133.9	
	15	1355		56.30		22.6	7.04	762	4.96	93.38	133.9	
*******	20	1400		56.30		22.6	7.04	762	4.93	95.01	134.0	
	25	1405		56.30		22.6	7.04	762	4.97	94.91	134.4	
	30	1410	3GAL	56.30		22.6	7.04	762	4.98	92.96	134.7	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 17
Sampled @ 1410 on 10/9/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10 / 8 /2024 Time: 1220
Field Personnel: Lorne Finish Date: Same Time: 1250

WELL INFORMATION

Well ID: 18D
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow

YSI SERIAL NO 24A100122
Heron Serial NO: 12DT240 316314B

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1220		41.80								Clear
Purge	5	1225		41.85		18.2	7.07	782	1.62	17.00	69.0	
	10	1230		41.90		18.1	7.07	782	1.73	18.82	71.2	
	15	1235		41.90		18.1	7.07	783	1.63	25.62	71.6	
*******	20	1240		41.92		18.1	7.06	784	1.54	24.72	71.4	
	25	1245		41.95		18.2	7.06	782	1.48	21.37	71.0	
	30	1250		41.95		18.1	7.06	781	1.47	22.20	70.2	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 18D
Sampled @ 1250 on 10 18 24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/8/2024 Time: 1120
Field Personnel: Lorne Finish Date: Same Time: 1150

WELL INFORMATION

Well ID: 18S
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow

YSI SERIAL NO: 24A100127
Heron Serial NO: 12DF240 3163HB

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1120		41.59								Clear
Purge	5	1125		41.59		18.4	7.28	769	1.79	8.75	102.0	↓
	10	1130		41.59		18.4	7.29	766	1.51	7.29	97.7	↓
	15	1135		41.59		18.3	7.29	763	1.00	7.29	89.1	↓
*******	20	1140		41.59		18.3	7.30	770	1.00	8.15	86.6	↓
	25	1145		41.59		18.4	7.30	769	1.11	9.72	84.9	↓
	30	1150	3.5 Gal	41.59		18.4	7.31	769	1.11	7.22	83.9	↓
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 18S
Sampled @ 1150 on 10/8/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: .0054 Task #: Start Date: 10/8/2024 Time: 1530
Field Personnel: G. Astalfy Finish Date: 10/8/2024 Time: 1625

WELL INFORMATION

Well ID: 21
Casing ID: Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow
YSI SERIAL NO: 21D105434X
Heron Serial NO:

WATER QUALITY INDICATOR PARAMETERS (continued)

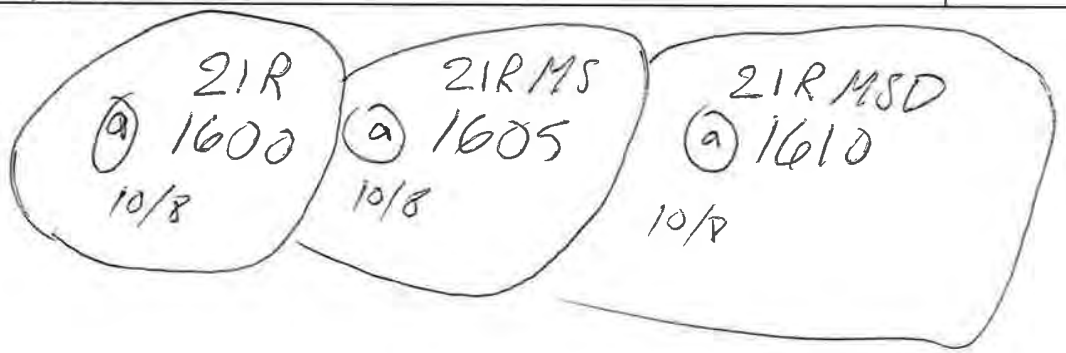
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	1530	—	6.59	—	—	—	—	—	—	—	—
Purge	5	1535	0.5	6.63	—	15.2	7.36	1203	2.81	40.32	-131.4	Clear
↓	10	1540	1	6.73	—	14.6	7.38	1200	2.63	43.54	-164.4	↓
↓	15	1545	1.5	6.73	—	14.5	7.39	1200	2.25	39.70	-162.4	↓
*******	20	1550	2	6.72	—	14.4	7.41	1205	1.20	36.91	-160.8	↓
Purge	25	1555	~~2.5~~ 3	6.73	—	14.3	7.41	1203	1.26	36.32	-161.7	↓
Sample	30	1600										
↓	35	1605										
↓	40	1610										
Final	45	1620	4	6.63								
	50											
	55											
	60											

NOTES (continued)

Sample ID: ~~21, 21MS, 21MSD~~ 21R, 21RMS, ~~21RMS/RSD~~ 21RMSD
Sampled @ 1600, 1605, 1610 on 10/8/2024

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 Celcius



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/9/2024 Time: 1400
Field Personnel: G. Assalley Finish Date: 10/9/24 Time: 1435

WELL INFORMATION

Well ID: 22
Casing ID: Inches

EVENT TYPE

Well Development
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	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	~~0220~~ 1400	—	19.11	—	—	—	—	—	—	—	—
Purge	5	~~0225~~ 1405	0.5	19.29	—	16.3	7.53	1087	3.17	9.66	-62.7	clear
	10	~~0230~~ 1410	1	19.14	—	15.9	7.55	1082	0.48	7.85	-65.6	↓
	15	~~0235~~ 1415	1.5	19.16	—	15.7	7.56	1082	0.41	3.86	-61.8	↓
******	20	~~0220~~ 1420	2	19.20	—	15.9	7.56	1082	0.50	6.74	-58.1	✓
Sample Pump	25	~~0225~~ 1425	2.5		—	—	—	—	—	—	—	—
Pump	30	~~0230~~ 1430	—	19.10	—	—	—	—	—	—	—	—
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 22
Sampled @ 1425 on 10/9/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

10/9/24
Hen_22
(9) 1425

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 10/9/2024 Time: 1315
Field Personnel: G. Astolfi Finish Date: 10/9/24 Time: 1420

WELL INFORMATION

Well ID: 22 BD
Casing ID: Inches

EVENT TYPE

Well Development
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	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	1320	—	19.82	—							
Purge	5	1325	0.5	19.99	—	16.9	7.24	1173	2.39	13.10	-108.4	Cloudy
|	10	1330	1	20.11	—	16.3	7.24	1182	0.77	9.97	-126.4	|
|	15	1335	2	20.00	—	16.2	7.24	1180	0.65	5.65	-130.9	|
*******	20	1340	2.5	20.03	—	16.1	7.24	1177	0.62	6.10	-130.9	|
↓	25	1345	3	20.09	—	16.1	7.24	1174	0.58	6.94	-131.1	|
Sand	30	1350	3.5		—							
Bind	35	1400		19.98								
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 22BD
Sampled @ 1350 on 10/9/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

22BD
10/9/24
@ 1350

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0059 Task #: Start Date: 10/9/2024 Time: 0930
Field Personnel: G. Asay Finish Date: 10/9/24 Time: 1020

WELL INFORMATION

Well ID: 23
Casing ID: Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow
YSI SERIAL NO: 4101474x
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	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	0930	—	17.28	—	—	—	—	—	—	—	—
Purge	5	0935	0.5	17.24		13.8	7.05	1049	5.11	2.67	19.5	Clear
|	10	0940	1	17.45		14.1	7.01	1337	4.77	2.77	21.8	|
|	15	0945	1.5	17.43		14.4	7.01	1338	4.54	2.14	25.1	|
/*	20	0950	2	17.44		14.6	7.02	1338	4.42	2.30	27.9	|
|	25	0955	2.5	17.45		14.3	7.04	1339	4.33	2.44	30.7	|
|	30	1000	3	17.64		13.2	7.37	1874	0.17	6.59	-21.9	|
|	35	1005	3.5	17.85		13.2	7.39	1332	0.12	7.44	-31.3	|
↓	40	1010	4	17.92		13.2	7.39	1329	0.06	8.27	-29.7	↓
Sample	45	1015	5	~~17.45~~	—	—	—	—	—	—	—	—
Final	50	1020	5	17.45								
	55											
	60											

NOTES (continued)

Sample ID: 23
Sampled @ 1015 on 10/9/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Hen_23
10/9/24
@ 1015

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 10 / 8 /2024 Time: 1120
Field Personnel: G. Assalley Finish Date: 10/8/24 Time:

WELL INFORMATION

Well ID: 27
Casing ID: Inches

EVENT TYPE

Well Development
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	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	1125	—	4.70	—	—	—	—	—	—	—	—
Purge	5	1130	0.5	4.72	—	12.8	7.13	1175	0.99	20.95	-61.7	Clear
↓	10	1135	1	4.81		12.7	7.14	1177	0.45	38.21	-79.1	↓
↓	15	1140	1.5	4.75		12.7	7.14	1177	0.33	34.53	-79.8	↓
*******	20	1145	2.5	4.72		12.6	7.14	1178	0.43	35.53	-79.9	↓
↓	25	1150	3.5	4.74		12.6	7.15	1178	0.54	33.79	-78.3	↓
Sample	30	1155	—	4.72	—	—	—	—	—	—	—	—
Final	35	1205	—	4.68	—	—	—	—	—	—	—	—
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: Hen-27
Sampled @ 1155 on 10/8/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Hen_27
(A) 1155

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 10 / 8 /2024 Time: 1030
Field Personnel: G Ashley Finish Date: 10/8/2024 Time:

WELL INFORMATION

Well ID: 32
Casing ID: Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow

YSI SERIAL NO: 21014748X
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	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	1030	—	5.45	—	—	—	—	—	—	—	—
Purge	5	1035	0.5	5.54	0.09	14.5	7.08	1018	0.97	8.09	97.7	Clear
↓	10	1040	1	5.55	0.01	14.5	7.06	1018	0.67	3.92	82.3	↓
↓	15	1045	2	5.59	0.04	14.5	7.07	1017	1.16	4.10	76.4	↓
*******	20	1050	2.5	5.60		14.5	7.06	1016	1.06	2.67	66.8	↓
↓	25	1055	3	5.62		14.5	7.06	1017	1.00	8.24	64.0	↓
↓	30	1100	4	5.70		14.5	7.06	1017	0.89	4.81	59.5	↓
Sample	35	1105										
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: Hen-32
Sampled @ 1105 on 10/8/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Hen-32
@ 1105

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 1284.0054 Task #: Start Date: 10 / 8 /2024 Time: 1310
Field Personnel: G. Assaf Finish Date: 10/8/24 Time: 1450

WELL INFORMATION

Well ID: 34
Casing ID: Inches

EVENT TYPE

Well Development
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	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	1315	—	8.89	—	—	—	—	—	—	—	—
Purge	5	1320	0	9.19		12.9	6.98	1309	1.19	21.51	-108.6	Clear
	10	1325	0.5	9.31		12.7	6.98	1374	0.54	9.88	-124.6	
	15	1330	1.25	9.23		12.6	6.98	1395	0.37	8.26	-130.1	
********	20	1335	2	9.32		12.6	6.98	1401	0.26	5.79	-132.7	
	25	1340	3	9.35		12.6	6.98	1407	0.24	4.91	-134.0	
Sample	30	1345	—	9.14	—	—	—	—	—	—	—	—
Final	35	1350	—	9.01	—	—	—	—	—	—	—	—
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 34
Sampled @ 1345 on 10/8/2024

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 Celcius

Hen_34
@ 1345

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 2024.054 Task #: Start Date: 10 / 8 /2024 Time: 1405
Field Personnel: G Assaling Finish Date: 10/8/24 Time:

WELL INFORMATION

Well ID: 35
Casing ID: Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow
YSI SERIAL NO: 14 01H-MX
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	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	1410	—	8.92	—	—	—	—	—	—	—	—
Purge	5	1415	1.0	8.92	—	17.1	6.88	2047	0.53	4.07	39.7	Clear
↓	10	1420	1.5	8.94	—	17.1	6.89	2096	0.33	3.09	41.7	Clear
↓	15	1425	1.5	8.99	—	17.0	6.88	2097	0.34	2.84	41.7	↓
*****	20	1430	2.5	8.97	—	17.0	6.89	2095	0.40	3.82	42.1	↓
Sample	25	1435	—	—	—	—	—	—	—	—	—	—
Sample	30	1440	—	—	—	—	—	—	—	—	—	—
Final	35	1450		8.89								
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: Hen-35
Sampled @ on 10/8/24

Field Dupl. collected

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Hen_35 @ 1435 10/8/24

Hen_35FD @ 1440 10/8/24

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/8/2024 Time: 1400
Field Personnel: Lorne Finish Date: Same Time: 1430

WELL INFORMATION

Well ID: 405
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow
YSI SERIAL NO: 24A100226
Heron Serial NO: 12DPL46316314 8

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1400		41.40							→	Clear
Purge	5	1405		41.40		18.5	7.73	681	1.92	30.29	111.5	
	10	1410		41.40		18.4	7.73	678	1.73	12.12	110.3	
	15	1415		41.40		18.3	7.73	679	1.63	8.34	108.6	
*******	20	1420		41.40		18.2	7.73	677	1.51	8.06	106.4	
	25	1425		41.40		18.1	7.73	679	1.56	9.02	104.4	
	30	1430		41.40		18.2	7.73	678	1.48	6.75	103.5	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 405
Sampled @ 1430 on 10/8/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/9/2024 Time: 0825
Field Personnel: Lorne Finish Date: Same Time: 0900

WELL INFORMATION

Well ID: 45#5
Casing ID: 2 (inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow

YSI SERIAL NO: 24A101226
Heron Serial NO: 12DF2403163HB

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	0835		21.21								Clear
Purge	5	0830		21.21		17.9	7.09	800	1.64	32.69	40.2	
	10	0835		21.21		18.0	7.07	797	1.71	19.64	48.9	
	15	0840		21.21		18.4	7.07	797	1.46	15.12	54.2	
*******	20	0845		21.21		18.3	7.06	797	1.44	12.20	58.6	
	25	0850		21.21		18.4	7.06	797	1.42	10.10	60.6	
	30	0855		21.21		18.4	7.06	797	1.39	9.72	62.7	
	35	0900	3.5	21.21								
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 45#5
Sampled @0900 on 10/9/24

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

708 5345200

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/9 /2024 Time: 1110
Field Personnel: Lorne Finish Date: Same Time: 1130

WELL INFORMATION

Well ID: 4G
Casing ID: 2 inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other
(Specify): Low Flow
YSI SERIAL NO: 24A101226
Heron Serial NO: 12DF240316ZHB

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1110		52.27								Clear
Purge	5	1115		52.27		21.1	7.16	709	1.57	7.14	105.9	
	10	1120		52.27		21.1	7.15	709	1.34	7.15	104.1	
	15	1125		52.27		21.2	7.16	709	1.30	6.72	103.3	
*******	20	1130		52.27		21.2	7.16	709	1.27	6.77	100.0	
	25	1135	2.5 Gal	52.27		21.2	7.16	709	1.28	7.28	99.9	
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 4G
Sampled @ 1130 on 10/9 TLH

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na = Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date 10 / 9 /2024 Time: 1220
Field Personnel: Lorne Finish Date: Same Time: 1240

WELL INFORMATION

Well ID: 47
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow
YSI SERIAL NO: 21A-101226
Heron Serial NO: 12DF240316HB

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	1220		56.60								Clear
Purge	5	1225		56.62		19.7	6.98	726	2.04	7.56	120.5	
	10	1230		56.62		19.7	6.99	728	2.04	6.97	119.3	
	15	1235		56.62		19.6	6.98	727	2.00	6.91	119.0	
*******	20	1240	3 Gal	56.62		19.6	6.99	727	1.98	7.78	118.9	
	25	1245										
	30											
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 47
Sampled @ 1240 on 10/9/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 3054 Task #: Start Date: 10/9/2024 Time: 1030
Field Personnel: B. Assaffing Finish Date: 10/9/24 Time: 1130

WELL INFORMATION

Well ID: 49
Casing ID: Inches

EVENT TYPE

Well Development
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	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	1030	—	21.21	—							
Purge	5	1035	—	22.29	—	15.2	7.75	1150	6.64	4.73	-105.1	Clear
↓	10	1040	—	21.21	—	14.6	7.06	1170	0.99	28.04	-20.4	Clear
↓	15	1045	—	22.23	—	14.60	7.65	1169	0.66	69.92	-2.5	↓
********	20	1050	—	22.25	—	14.6	7.05	1170	0.58	70.32	3.3	
↓	25	1055		22.27		14.6	7.05	1169	0.46	73.27	7.7	
↓	30	1100	—	22.30	—	14.6	7.65	1168	0.52	77.05	11.4	↓
Sample	35	1105	—	—	—	—	—	—	—	—	—	—
↓	40	1110										
↓	45	1115										
Final	50	1125	—	22.27	—	—	—	—	—	—	—	—
	55											
	60											

NOTES (continued)

Sample ID: Hen 49, 49MS 49MSD
Sampled @ on 10/9/24

ABBREVIATIONS

Cond - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Hen 49 @ 1105 10/9/24
Hen 49MS @ 1110 10/9/24
49MSD @ 1115 10/9/24

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: Task #: Start Date: 10/9/2024 Time: 1230
Field Personnel: G. Assaly Finish Date: 10/9/24 Time: 1310

WELL INFORMATION

Well ID: 50
Casing ID: Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow

YSI SERIAL NO: 21014794
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	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	1235	—	18.9	—	—	—	—	—	—	—	—
Purge	5	1240	0.5	18.89	—	16.2	7.43	1065	1.30	12.13	8.6	Clear
↓	10	1245	1	18.92	—	16.2	7.42	1069	0.55	5.29	-8.0	Clear
↓	15	1250	2	19.02	—	16.1	7.42	1069	0.32	3.87	-16.0	↓
********	20	1255	3	18.96	—	16.1	7.42	1069	0.30	3.46	-22.5	↓
↓	25	1300	4	19.02	—	16.1	7.42	1070	0.48	5.18	-20.3	↓
Sample	30	1305	4.5	~~18.91~~	—	—	—	—	—	—	—	—
Final	35	1308		18.91								
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 50
Sampled @ 1305 on 10/9/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Hen_50
10/9/24
@ 1305

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0052 Task #: Start Date: 10 / 9 /2024 Time: 0825
Field Personnel: G. Assalin Finish Date: 10/9/24 Time:

WELL INFORMATION

Well ID: 51
Casing ID: Inches

EVENT TYPE

Well Development
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	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	—	19.21								
Purge	5	0835	0.5 >	19.52		12.7	7.26	1188	4.39	35.72	-90.1	Clear
↓	10	0840	0.5	19.55		12.6	7.32	1193	0.95	28.72	-140.8	↓
↓	15	0845	1	19.59		12.6	7.32	1192	0.87	19.95	-146.0	↓
*******	20	0850	1.5	19.49		12.6	7.33	1193	0.74	15.42	-149.9	Murky
↓	25	0855	2	19.55		12.6	7.32	1193	0.61	15.23	-152.1	Clear
↓	30	0900	2.5	19.71		12.6	7.33	1191	0.63	14.89	-153.0	Clear
Sampl	35	0905	—		—	—	—	—	—	—	—	—
Final	40	0920		19.15								
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 51
Sampled @ 0905 on 10/9/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Hen_51
@ 0905
10/9/24

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: 1 Start Date: 10 /10 /2024 Time: 0730
Field Personnel: G. Ashley Finish Date: 10/10/2024 Time: 0820

WELL INFORMATION

Well ID: 52
Casing ID: Inches

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow
YSI SERIAL NO: M10147Mx
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	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	0735	—	54.74	—	—	—	—	—	—	—	—
Purge	5	0740	0.5	54.70	—	17.2	6.88	959	4.70	4.92	75.2	clear
	10	0745	1	54.71	—	19.4	6.97	1000	1.77	3.68	69.0	↓
	15	0750	1.5	54.71	—	19.7	6.95	1007	1.47	3.03	54.8	↓
******	20	0755	2	54.71	—	19.8	6.94	1009	1.46	2.97	46.5	↓
	25	0800	2.5	54.69	—	19.8	6.94	1009	1.44	3.02	43.3	↓
↓	30	0805	3	54.70	—	19.8	6.94	1008	1.44	3.11	41.7	↓
Sample	35	0810										
Final	40	0815	3.5	54.72	—							
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 52
Sampled @0810 on 10/10/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Hen-52
@0810

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Vistra
Project Number: 0054 Task #: Start Date: 10/10/2024 Time: 0740
Field Personnel: Lorne Finish Date: Same Time: 0815

WELL INFORMATION

Well ID: 54
Casing ID: 2 (Inches)

EVENT TYPE

Well Development
Well Volume Approach Sampling
Low-Flow / Low Stress Sampling Other (Specify): Low Flow

YSI SERIAL NO: 24A101226
Heron Serial NO: 12DR240346 HB

WATER QUALITY INDICATOR PARAMETERS (continued)

Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	0745		54.05		~~16.8~~	~~7.27~~	~~658~~	~~2.49~~	~~12.90~~	~~75.0~~	Clear
Purge	5	0750		54.05		16.8	7.27	658	2.49	12.90	75.0	
	10	0755		54.05		16.9	7.24	657	2.20	10.22	82.3	
	15	0800		54.05		17.0	7.22	657	2.09	9.76	85.3	
*******	20	0805		54.05		17.0	7.22	657	2.00	9.72	87.3	
	25	0810		54.05		17.1	7.22	658	2.10	9.50	88.2	
	30	0815	3GAL	54.05		17.1	7.22	658	2.08	8.51	88.6	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)

Sample ID: 54
Sampled @ 0815 on 10/10/24

ABBREVIATIONS

Cond. - Actual Conductivity
FT BTOC - Feet Below Top of Casing na - Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units
Temp - Temperature
°C - Degrees Celcius

Dupe @ 0825

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701

Generated 11/11/24 14:44:04

JOB DESCRIPTION

HEN-24Q4
HEN_000_RAD

JOB NUMBER

500-258038-2

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

my EOL

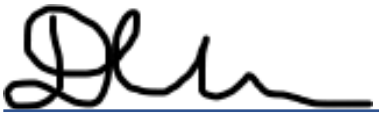
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Job Notes

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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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Case Narrative

Client: Vistra Energy Corp
Project: HEN-24Q4

Job ID: 500-258038-2

Job ID: 500-258038-2 — Eurofins Chicago

Job Narrative
500-258038-2

Receipt
The samples were received on 10/08/24 11:17. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 13 coolers at receipt time were 1.5º C, 1.5º C, 3.2º C, 3.5º C, 3.8º C, 4.0º C, 4.2º C, 4.9º C, 5.0º C, 5.2º C, 5.3º C, 5.9º C and 13.8º C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No sample date/time on COC. Added sample date/time on COC per sample labels. Sample #2- HEN_10 container label list date as 7/7-adedd to COC and logged as 10/7. Sample date/time confirmed via well development forms.

The following samples were received at the laboratory at 13.8 C & 5.9 C.: HEN_07 (500-258038-33), HEN_08 (500-258038-34), HEN_52 (500-258038-35), HEN_54 (500-258038-36), HEN_54_FD (500-258038-37) and HEN_FB (500-258038-38). 13.8 C is outside the required temperature criteria of < 6 C. The samples are considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

The Chain-of-Custody (COC) was incomplete as received. The COC is missing the Sample Date. Login sample dates were taken from the bottles, added to the COC and verified using the well development forms. Affected samples: HEN_05&DR (500-258038-4), HEN_05!R (500-258038-5), HEN_08&D (500-258038-6), HEN_12 (500-258038-7), HEN_13 (500-258038-8), HEN_18&D (500-258038-9), HEN_18#S (500-258038-10), HEN_21R (500-258038-11), HEN_21R_MS (500-258038-11[MS]), HEN_21R-MSD (500-258038-11[MSD]), HEN_27 (500-258038-12), HEN_32 (500-258038-13), HEN_34 (500-258038-14), HEN_35 (500-258038-15), HEN_35_FD (500-258038-16) and HEN_40#S (500-258038-17)

RAD
Method 904.0: Radium-228 batch 6832258
The detection goal was not met for the following sample due to the reduced sample volume used in prep attributed to the presence of matrix interferences: HEN_21R (500-258038-11). Analytical results are reported with the detection limit achieved.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08&D — Lab Sample ID: 500-258038-6

No Detections.

Client Sample ID: HEN_12 — Lab Sample ID: 500-258038-7

No Detections.

Client Sample ID: HEN_13 — Lab Sample ID: 500-258038-8

No Detections.

Client Sample ID: HEN_18&D — Lab Sample ID: 500-258038-9

No Detections.

Client Sample ID: HEN_18#S — Lab Sample ID: 500-258038-10

No Detections.

Client Sample ID: HEN_21R — Lab Sample ID: 500-258038-11

No Detections.

Client Sample ID: HEN_27 — Lab Sample ID: 500-258038-12

No Detections.

Client Sample ID: HEN_32 — Lab Sample ID: 500-258038-13

No Detections.

Client Sample ID: HEN_34 — Lab Sample ID: 500-258038-14

No Detections.

Client Sample ID: HEN_35 — Lab Sample ID: 500-258038-15

No Detections.

Client Sample ID: HEN_35_FD — Lab Sample ID: 500-258038-16

No Detections.

Client Sample ID: HEN_03R — Lab Sample ID: 500-258038-19

No Detections.

Client Sample ID: HEN_03R_FD — Lab Sample ID: 500-258038-20

No Detections.

Client Sample ID: HEN_16 — Lab Sample ID: 500-258038-21

No Detections.

Client Sample ID: HEN_16_FD — Lab Sample ID: 500-258038-22

No Detections.

Client Sample ID: HEN_17 — Lab Sample ID: 500-258038-23

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22 — Lab Sample ID: 500-258038-24

No Detections.

Client Sample ID: HEN_22&D — Lab Sample ID: 500-258038-25

No Detections.

Client Sample ID: HEN_23 — Lab Sample ID: 500-258038-26

No Detections.

Client Sample ID: HEN_45#S — Lab Sample ID: 500-258038-27

No Detections.

Client Sample ID: HEN_46 — Lab Sample ID: 500-258038-28

No Detections.

Client Sample ID: HEN_47 — Lab Sample ID: 500-258038-29

No Detections.

Client Sample ID: HEN_49 — Lab Sample ID: 500-258038-30

No Detections.

Client Sample ID: HEN_50 — Lab Sample ID: 500-258038-31

No Detections.

Client Sample ID: HEN_51 — Lab Sample ID: 500-258038-32

No Detections.

Client Sample ID: HEN_07 — Lab Sample ID: 500-258038-33

No Detections.

Client Sample ID: HEN_08 — Lab Sample ID: 500-258038-34

No Detections.

Client Sample ID: HEN_52 — Lab Sample ID: 500-258038-35

No Detections.

Client Sample ID: HEN_54 — Lab Sample ID: 500-258038-36

No Detections.

Client Sample ID: HEN_54_FD — Lab Sample ID: 500-258038-37

No Detections.

Client Sample ID: HEN_FB — Lab Sample ID: 500-258038-38

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_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: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-258038-6	HEN_08&D	Water	10/08/24 08:15	10/09/24 12:00
500-258038-7	HEN_12	Water	10/08/24 09:15	10/09/24 12:00
500-258038-8	HEN_13	Water	10/08/24 08:20	10/09/24 12:00
500-258038-9	HEN_18&D	Water	10/08/24 12:50	10/09/24 12:00
500-258038-10	HEN_18#S	Water	10/08/24 11:50	10/09/24 12:00
500-258038-11	HEN_21R	Water	10/08/24 16:00	10/09/24 12:00
500-258038-12	HEN_27	Water	10/08/24 11:55	10/09/24 12:00
500-258038-13	HEN_32	Water	10/08/24 11:05	10/09/24 12:00
500-258038-14	HEN_34	Water	10/08/24 13:45	10/09/24 12:00
500-258038-15	HEN_35	Water	10/08/24 14:35	10/09/24 12:00
500-258038-16	HEN_35_FD	Water	10/08/24 14:40	10/09/24 12:00
500-258038-19	HEN_03R	Water	10/09/24 10:15	10/10/24 11:10
500-258038-20	HEN_03R_FD	Water	10/09/24 10:30	10/10/24 11:10
500-258038-21	HEN_16	Water	10/09/24 15:05	10/10/24 11:10
500-258038-22	HEN_16_FD	Water	10/09/24 15:20	10/10/24 11:10
500-258038-23	HEN_17	Water	10/09/24 14:10	10/10/24 11:10
500-258038-24	HEN_22	Water	10/09/24 14:25	10/10/24 11:10
500-258038-25	HEN_22&D	Water	10/09/24 13:50	10/10/24 11:10
500-258038-26	HEN_23	Water	10/09/24 10:15	10/10/24 11:10
500-258038-27	HEN_45#S	Water	10/09/24 09:00	10/10/24 11:10
500-258038-28	HEN_46	Water	10/09/24 11:30	10/10/24 11:10
500-258038-29	HEN_47	Water	10/09/24 12:40	10/10/24 11:10
500-258038-30	HEN_49	Water	10/09/24 11:05	10/10/24 11:10
500-258038-31	HEN_50	Water	10/09/24 13:05	10/10/24 11:10
500-258038-32	HEN_51	Water	10/09/24 09:05	10/10/24 11:10
500-258038-33	HEN_07	Water	10/10/24 09:20	10/10/24 12:46
500-258038-34	HEN_08	Water	10/10/24 09:20	10/10/24 12:46
500-258038-35	HEN_52	Water	10/10/24 08:10	10/10/24 12:46
500-258038-36	HEN_54	Water	10/10/24 08:15	10/10/24 12:46
500-258038-37	HEN_54_FD	Water	10/10/24 08:25	10/10/24 12:46
500-258038-38	HEN_FB	Water	10/10/24 09:00	10/10/24 12:46

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08&D

Date Collected: 10/08/24 08:15
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-6

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0805	U	0.0682	0.0686	1.00	0.100	pCi/L	10/11/24 08:27	11/04/24 07:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*10/11/24 08:27*	*11/04/24 07:48*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.692**		0.426	0.431	1.00	0.626	pCi/L	10/11/24 08:34	10/25/24 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*10/11/24 08:34*	*10/25/24 11:59*	*1*
Y Carrier	*74.8*		*30 - 110*	*10/11/24 08:34*	*10/25/24 11:59*	*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	**0.773**		0.431	0.436	5.00	0.626	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_12

Date Collected: 10/08/24 09:15
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-7

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0441	U	0.0685	0.0686	1.00	0.118	pCi/L	10/11/24 08:27	11/04/24 07:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*10/11/24 08:27*	*11/04/24 07:48*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.823**		0.398	0.405	1.00	0.522	pCi/L	10/11/24 08:34	10/25/24 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*10/11/24 08:34*	*10/25/24 11:59*	*1*
Y Carrier	*74.4*		*30 - 110*	*10/11/24 08:34*	*10/25/24 11:59*	*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	**0.867**		0.404	0.411	5.00	0.522	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_13
Date Collected: 10/08/24 08:20
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-8
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0804	U	0.0842	0.0845	1.00	0.135	pCi/L	10/11/24 08:27	11/04/24 07:48	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.7*		*30 - 110*	*10/11/24 08:27*	*11/04/24 07:48*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.783**		0.435	0.441	1.00	0.628	pCi/L	10/11/24 08:34	10/25/24 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.7*		*30 - 110*	*10/11/24 08:34*	*10/25/24 11:59*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/11/24 08:34*	*10/25/24 11:59*	*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	**0.863**		0.443	0.449	5.00	0.628	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18&D

Date Collected: 10/08/24 12:50
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-9

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.152		0.0818	0.0830	1.00	0.0987	pCi/L	10/11/24 08:27	11/04/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*10/11/24 08:27*	*11/04/24 07:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.28		0.577	0.589	1.00	0.773	pCi/L	10/11/24 08:34	10/25/24 13:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.6*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:57*	*1*
Y Carrier	*75.1*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:57*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.43		0.583	0.595	5.00	0.773	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S
Date Collected: 10/08/24 11:50
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-10
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0332	U	0.0795	0.0796	1.00	0.142	pCi/L	10/11/24 08:27	11/04/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.9*		*30 - 110*	*10/11/24 08:27*	*11/04/24 07:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.412	U	0.415	0.417	1.00	0.668	pCi/L	10/11/24 08:34	10/25/24 13:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.9*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:57*	*1*
Y Carrier	*78.5*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:57*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.445	U	0.423	0.425	5.00	0.668	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R

Date Collected: 10/08/24 16:00
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-11

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.391**		0.149	0.153	1.00	0.162	pCi/L	10/11/24 08:27	11/04/24 07:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*10/11/24 08:27*	*11/04/24 07:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.355	U G	0.602	0.603	1.00	1.21	pCi/L	10/11/24 08:34	10/25/24 13:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.6*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:57*	*1*
Y Carrier	*73.3*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:57*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.391	U	0.620	0.622	5.00	1.21	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_27

Date Collected: 10/08/24 11:55
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-12

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.130		0.0787	0.0796	1.00	0.102	pCi/L	10/11/24 08:27	11/04/24 07:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*10/11/24 08:27*	*11/04/24 07:46*	*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	0.0641	U	0.414	0.414	1.00	0.757	pCi/L	10/11/24 08:34	10/25/24 13:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.9*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:58*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:58*	*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	0.194	U	0.421	0.422	5.00	0.757	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_32
Date Collected: 10/08/24 11:05
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-13
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0808	U	0.0653	0.0657	1.00	0.0942	pCi/L	10/11/24 08:27	11/04/24 09:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.1*		*30 - 110*	*10/11/24 08:27*	*11/04/24 09:28*	*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	0.0357	U	0.363	0.363	1.00	0.677	pCi/L	10/11/24 08:34	10/25/24 13:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.1*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:58*	*1*
Y Carrier	*77.0*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:58*	*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	0.116	U	0.369	0.369	5.00	0.677	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_34
Date Collected: 10/08/24 13:45
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-14
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.173		0.106	0.107	1.00	0.151	pCi/L	10/11/24 08:27	11/04/24 09:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*30 - 110*	*10/11/24 08:27*	*11/04/24 09:28*	*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	0.621	U	0.538	0.541	1.00	0.845	pCi/L	10/11/24 08:34	10/25/24 13:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*86.1*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:58*	*1*
Y Carrier	*71.0*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:58*	*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	0.794	U	0.548	0.551	5.00	0.845	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35
Date Collected: 10/08/24 14:35
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-15
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0704	U	0.0710	0.0713	1.00	0.112	pCi/L	10/11/24 08:27	11/04/24 09:28	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.2*		*30 - 110*	*10/11/24 08:27*	*11/04/24 09:28*	*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	-0.157	U	0.372	0.373	1.00	0.738	pCi/L	10/11/24 08:34	10/25/24 13:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*95.2*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:58*	*1*
Y Carrier	*76.3*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:58*	*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	0.0704	U	0.379	0.380	5.00	0.738	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35_FD

Date Collected: 10/08/24 14:40
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-16

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0787	U	0.0631	0.0635	1.00	0.0900	pCi/L	10/11/24 08:27	11/04/24 09:29	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*10/11/24 08:27*	*11/04/24 09:29*	*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	0.287	U	0.483	0.483	1.00	0.828	pCi/L	10/11/24 08:34	10/25/24 13:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.6*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:58*	*1*
Y Carrier	*66.2*		*30 - 110*	*10/11/24 08:34*	*10/25/24 13:58*	*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	0.365	U	0.487	0.487	5.00	0.828	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R
Date Collected: 10/09/24 10:15
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-19
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0519	U	0.0780	0.0782	1.00	0.134	pCi/L	10/14/24 08:32	11/05/24 09:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*10/14/24 08:32*	*11/05/24 09:41*	*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	0.382	U	0.354	0.356	1.00	0.559	pCi/L	10/14/24 08:36	10/28/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*10/14/24 08:36*	*10/28/24 12:26*	*1*
Y Carrier	*79.3*		*30 - 110*	*10/14/24 08:36*	*10/28/24 12:26*	*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	0.434	U	0.362	0.364	5.00	0.559	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD

Date Collected: 10/09/24 10:30
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-20

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.187		0.0975	0.0990	1.00	0.117	pCi/L	10/14/24 08:32	11/05/24 09:41	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.8*		*30 - 110*	*10/14/24 08:32*	*11/05/24 09:41*	*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	0.748		0.452	0.457	1.00	0.653	pCi/L	10/14/24 08:36	10/28/24 12:26	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.8*		*30 - 110*	*10/14/24 08:36*	*10/28/24 12:26*	*1*
Y Carrier	*77.0*		*30 - 110*	*10/14/24 08:36*	*10/28/24 12:26*	*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	0.935		0.462	0.468	5.00	0.653	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16

Date Collected: 10/09/24 15:05
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-21

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0589	U	0.0723	0.0725	1.00	0.119	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.7*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0977	U	0.360	0.360	1.00	0.652	pCi/L	10/14/24 08:43	10/30/24 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.7*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*1*
Y Carrier	*73.6*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*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	0.157	U	0.367	0.367	5.00	0.652	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_16_FD

Date Collected: 10/09/24 15:20
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-22

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0641	U	0.0715	0.0717	1.00	0.115	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.261	U	0.421	0.421	1.00	0.716	pCi/L	10/14/24 08:43	10/30/24 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*85.8*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*1*
Y Carrier	*70.7*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*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	0.325	U	0.427	0.427	5.00	0.716	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_17

Date Collected: 10/09/24 14:10
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-23

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.140**		0.0905	0.0914	1.00	0.121	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.3*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.302	U	0.447	0.448	1.00	0.755	pCi/L	10/14/24 08:43	10/30/24 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*80.3*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*1*
Y Carrier	*75.1*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*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	0.442	U	0.456	0.457	5.00	0.755	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22
Date Collected: 10/09/24 14:25
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-24
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0222	U	0.0616	0.0617	1.00	0.116	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.0675	U	0.319	0.319	1.00	0.620	pCi/L	10/14/24 08:43	10/30/24 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.8*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*1*
Y Carrier	*74.8*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*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	0.0222	U	0.325	0.325	5.00	0.620	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22&D

Date Collected: 10/09/24 13:50
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-25

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.620		0.167	0.176	1.00	0.150	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.1*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.971		0.506	0.514	1.00	0.727	pCi/L	10/14/24 08:43	10/30/24 11:56	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*87.1*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.59		0.533	0.543	5.00	0.727	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_23
Date Collected: 10/09/24 10:15
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-26
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0934	U	0.0761	0.0766	1.00	0.111	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.3*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.0717	U	0.365	0.365	1.00	0.668	pCi/L	10/14/24 08:43	10/30/24 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.3*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:58*	*1*
Y Carrier	*70.3*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:58*	*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	0.165	U	0.373	0.373	5.00	0.668	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_45#S
Date Collected: 10/09/24 09:00
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-27
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0985	U	0.0993	0.0997	1.00	0.157	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.2*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.128	U	0.411	0.411	1.00	0.804	pCi/L	10/14/24 08:43	10/30/24 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*77.2*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:58*	*1*
Y Carrier	*68.8*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:58*	*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	0.0985	U	0.423	0.423	5.00	0.804	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46
Date Collected: 10/09/24 11:30
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-28
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.183**		0.101	0.103	1.00	0.125	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.2*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.343	U	0.553	0.554	1.00	0.939	pCi/L	10/14/24 08:43	10/30/24 11:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*75.2*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:57*	*1*
Y Carrier	*66.2*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:57*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.526	U	0.562	0.563	5.00	0.939	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_47
Date Collected: 10/09/24 12:40
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-29
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0991	U	0.0861	0.0866	1.00	0.130	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.8*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	**0.649**		0.431	0.435	1.00	0.645	pCi/L	10/14/24 08:43	10/30/24 11:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*84.8*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:57*	*1*
Y Carrier	*77.8*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:57*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	**0.748**		0.440	0.444	5.00	0.645	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_49
Date Collected: 10/09/24 11:05
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-30
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0560	U	0.0880	0.0881	1.00	0.151	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.6*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:45*	*1*

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.00561	U	0.317	0.317	1.00	0.607	pCi/L	10/14/24 08:43	10/30/24 11:57	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*91.6*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:57*	*1*
Y Carrier	*66.9*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:57*	*1*

Method: TAL-STL Ra226_Ra228 Pos - Combined Radium-226 and Radium-228

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.0560	U	0.329	0.329	5.00	0.607	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_50
Date Collected: 10/09/24 13:05
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-31
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.313**		0.121	0.124	1.00	0.126	pCi/L	10/14/24 08:37	11/06/24 22:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.5*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:44*	*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	0.603	U	0.518	0.521	1.00	0.814	pCi/L	10/14/24 08:43	10/30/24 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.5*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:58*	*1*
Y Carrier	*66.9*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:58*	*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	**0.917**		0.532	0.536	5.00	0.814	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_51
Date Collected: 10/09/24 09:05
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-32
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.776**		0.210	0.221	1.00	0.181	pCi/L	10/14/24 08:37	11/06/24 22:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.0*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:44*	*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	0.778	U	0.588	0.592	1.00	0.890	pCi/L	10/14/24 08:43	10/30/24 11:58	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*78.0*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:58*	*1*
Y Carrier	*69.9*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:58*	*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	**1.55**		0.624	0.632	5.00	0.890	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_07

Date Collected: 10/10/24 09:20
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-33

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.193		0.113	0.114	1.00	0.154	pCi/L	10/14/24 08:37	11/06/24 22:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.5*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:44*	*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	0.213	U	0.368	0.369	1.00	0.635	pCi/L	10/14/24 08:43	10/30/24 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.5*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*1*
Y Carrier	*73.6*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*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	0.406	U	0.385	0.386	5.00	0.635	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08

Date Collected: 10/10/24 09:20
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-34

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	**0.259**		0.135	0.137	1.00	0.169	pCi/L	10/14/24 08:37	11/06/24 22:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*60.3*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:44*	*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	0.808	U	0.580	0.584	1.00	0.874	pCi/L	10/14/24 08:43	10/30/24 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*60.3*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*1*
Y Carrier	*73.3*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*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	**1.07**		0.596	0.600	5.00	0.874	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_52
Date Collected: 10/10/24 08:10
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-35
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.125	U	0.0886	0.0893	1.00	0.126	pCi/L	10/14/24 08:37	11/06/24 22:44	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:44*	*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	0.334	U	0.372	0.374	1.00	0.609	pCi/L	10/14/24 08:43	10/30/24 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*88.6*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*1*
Y Carrier	*76.3*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*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	0.459	U	0.382	0.385	5.00	0.609	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54
Date Collected: 10/10/24 08:15
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-36
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0443	U	0.0586	0.0588	1.00	0.0979	pCi/L	10/14/24 08:37	11/06/24 22:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:46*	*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	0.0836	U	0.313	0.313	1.00	0.568	pCi/L	10/14/24 08:43	10/30/24 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*90.1*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*1*
Y Carrier	*75.1*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*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	0.128	U	0.318	0.318	5.00	0.568	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54_FD

Date Collected: 10/10/24 08:25
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-37

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0909	U	0.103	0.104	1.00	0.169	pCi/L	10/14/24 08:37	11/06/24 22:46	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:46*	*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	0.291	U	0.344	0.345	1.00	0.565	pCi/L	10/14/24 08:43	10/30/24 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*81.8*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*1*
Y Carrier	*79.3*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*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	0.382	U	0.359	0.360	5.00	0.565	pCi/L		11/08/24 12:52	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_FB
Date Collected: 10/10/24 09:00
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-38
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	-0.000865	U	0.0480	0.0480	1.00	0.105	pCi/L	10/14/24 08:37	11/06/24 22:47	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.0*		*30 - 110*	*10/14/24 08:37*	*11/06/24 22:47*	*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	0.297	U	0.378	0.379	1.00	0.629	pCi/L	10/14/24 08:43	10/30/24 11:59	1

Carrier	*%Yield*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*79.0*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*1*
Y Carrier	*72.5*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:59*	*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	0.297	U	0.381	0.382	5.00	0.629	pCi/L		11/08/24 12:52	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Rad

Prep Batch: 683227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total/NA	Water	PrecSep-21	
500-258038-7	HEN_12	Total/NA	Water	PrecSep-21	
500-258038-8	HEN_13	Total/NA	Water	PrecSep-21	
500-258038-9	HEN_18&D	Total/NA	Water	PrecSep-21	
500-258038-10	HEN_18#S	Total/NA	Water	PrecSep-21	
500-258038-11	HEN_21R	Total/NA	Water	PrecSep-21	
500-258038-12	HEN_27	Total/NA	Water	PrecSep-21	
500-258038-13	HEN_32	Total/NA	Water	PrecSep-21	
500-258038-14	HEN_34	Total/NA	Water	PrecSep-21	
500-258038-15	HEN_35	Total/NA	Water	PrecSep-21	
500-258038-16	HEN_35_FD	Total/NA	Water	PrecSep-21	
MB 160-683227/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-683227/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-258038-11 MS	HEN_21R_MS	Total/NA	Water	PrecSep-21	
500-258038-11 MSD	HEN_21R-MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 683228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-6	HEN_08&D	Total/NA	Water	PrecSep_0	
500-258038-7	HEN_12	Total/NA	Water	PrecSep_0	
500-258038-8	HEN_13	Total/NA	Water	PrecSep_0	
500-258038-9	HEN_18&D	Total/NA	Water	PrecSep_0	
500-258038-10	HEN_18#S	Total/NA	Water	PrecSep_0	
500-258038-11	HEN_21R	Total/NA	Water	PrecSep_0	
500-258038-12	HEN_27	Total/NA	Water	PrecSep_0	
500-258038-13	HEN_32	Total/NA	Water	PrecSep_0	
500-258038-14	HEN_34	Total/NA	Water	PrecSep_0	
500-258038-15	HEN_35	Total/NA	Water	PrecSep_0	
500-258038-16	HEN_35_FD	Total/NA	Water	PrecSep_0	
MB 160-683228/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-683228/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-258038-11 MS	HEN_21R_MS	Total/NA	Water	PrecSep_0	
500-258038-11 MSD	HEN_21R-MSD	Total/NA	Water	PrecSep_0	

Prep Batch: 683389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-19	HEN_03R	Total/NA	Water	PrecSep-21	
500-258038-20	HEN_03R_FD	Total/NA	Water	PrecSep-21	
MB 160-683389/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-683389/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Prep Batch: 683390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-19	HEN_03R	Total/NA	Water	PrecSep_0	
500-258038-20	HEN_03R_FD	Total/NA	Water	PrecSep_0	
MB 160-683390/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-683390/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 683391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-21	HEN_16	Total/NA	Water	PrecSep-21	

QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Rad (Continued)

Prep Batch: 683391 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-22	HEN_16_FD	Total/NA	Water	PrecSep-21	
500-258038-23	HEN_17	Total/NA	Water	PrecSep-21	
500-258038-24	HEN_22	Total/NA	Water	PrecSep-21	
500-258038-25	HEN_22&D	Total/NA	Water	PrecSep-21	
500-258038-26	HEN_23	Total/NA	Water	PrecSep-21	
500-258038-27	HEN_45#S	Total/NA	Water	PrecSep-21	
500-258038-28	HEN_46	Total/NA	Water	PrecSep-21	
500-258038-29	HEN_47	Total/NA	Water	PrecSep-21	
500-258038-30	HEN_49	Total/NA	Water	PrecSep-21	
500-258038-31	HEN_50	Total/NA	Water	PrecSep-21	
500-258038-32	HEN_51	Total/NA	Water	PrecSep-21	
500-258038-33	HEN_07	Total/NA	Water	PrecSep-21	
500-258038-34	HEN_08	Total/NA	Water	PrecSep-21	
500-258038-35	HEN_52	Total/NA	Water	PrecSep-21	
500-258038-36	HEN_54	Total/NA	Water	PrecSep-21	
500-258038-37	HEN_54_FD	Total/NA	Water	PrecSep-21	
500-258038-38	HEN_FB	Total/NA	Water	PrecSep-21	
MB 160-683391/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-683391/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-258038-30 MS	HEN_49_MS	Total/NA	Water	PrecSep-21	
500-258038-30 MSD	HEN_49_MSD	Total/NA	Water	PrecSep-21	

Prep Batch: 683393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-21	HEN_16	Total/NA	Water	PrecSep_0	
500-258038-22	HEN_16_FD	Total/NA	Water	PrecSep_0	
500-258038-23	HEN_17	Total/NA	Water	PrecSep_0	
500-258038-24	HEN_22	Total/NA	Water	PrecSep_0	
500-258038-25	HEN_22&D	Total/NA	Water	PrecSep_0	
500-258038-26	HEN_23	Total/NA	Water	PrecSep_0	
500-258038-27	HEN_45#S	Total/NA	Water	PrecSep_0	
500-258038-28	HEN_46	Total/NA	Water	PrecSep_0	
500-258038-29	HEN_47	Total/NA	Water	PrecSep_0	
500-258038-30	HEN_49	Total/NA	Water	PrecSep_0	
500-258038-31	HEN_50	Total/NA	Water	PrecSep_0	
500-258038-32	HEN_51	Total/NA	Water	PrecSep_0	
500-258038-33	HEN_07	Total/NA	Water	PrecSep_0	
500-258038-34	HEN_08	Total/NA	Water	PrecSep_0	
500-258038-35	HEN_52	Total/NA	Water	PrecSep_0	
500-258038-36	HEN_54	Total/NA	Water	PrecSep_0	
500-258038-37	HEN_54_FD	Total/NA	Water	PrecSep_0	
500-258038-38	HEN_FB	Total/NA	Water	PrecSep_0	
MB 160-683393/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-683393/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-258038-30 MS	HEN_49_MS	Total/NA	Water	PrecSep_0	
500-258038-30 MSD	HEN_49_MSD	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-683227/1-A
Matrix: Water
Analysis Batch: 686661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683227

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03637	U	0.0528	0.0529	1.00	0.0902	pCi/L	10/11/24 08:27	11/04/24 07:47	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.7*		*30 - 110*	*10/11/24 08:27*	*11/04/24 07:47*	*1*

Lab Sample ID: LCS 160-683227/2-A
Matrix: Water
Analysis Batch: 686661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683227

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	7.872		0.863	1.00	0.121	pCi/L	82	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.2*		*30 - 110*

Lab Sample ID: 500-258038-11 MS
Matrix: Water
Analysis Batch: 686653

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
Prep Batch: 683227

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.391		12.6	13.58		1.43	1.00	0.126	pCi/L	105	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*83.8*		*30 - 110*

Lab Sample ID: 500-258038-11 MSD
Matrix: Water
Analysis Batch: 686653

Client Sample ID: HEN_21R-MSD
Prep Type: Total/NA
Prep Batch: 683227

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.391		12.6	11.97		1.27	1.00	0.133	pCi/L	92	60 - 140	0.60	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*89.6*		*30 - 110*

Lab Sample ID: MB 160-683389/1-A
Matrix: Water
Analysis Batch: 686864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683389

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.05131	U	0.0621	0.0622	1.00	0.102	pCi/L	10/14/24 08:32	11/05/24 07:52	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: MB 160-683389/1-A
Matrix: Water
Analysis Batch: 686864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683389

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	94.9		30 - 110	10/14/24 08:32	11/05/24 07:52	1

Lab Sample ID: LCS 160-683389/2-A
Matrix: Water
Analysis Batch: 686864

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683389

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	8.968		0.973	1.00	0.126	pCi/L	94	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	86.6		30 - 110

Lab Sample ID: MB 160-683391/1-A
Matrix: Water
Analysis Batch: 687156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683391

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.02339	U	0.0627	0.0627	1.00	0.117	pCi/L	10/14/24 08:37	11/06/24 22:45	1

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	89.9		30 - 110	10/14/24 08:37	11/06/24 22:45	1

Lab Sample ID: LCS 160-683391/2-A
Matrix: Water
Analysis Batch: 687156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683391

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226			9.58	8.649		0.943	1.00	0.145	pCi/L	90	75 - 125		

Carrier	LCS %Yield	LCS Qualifier	Limits
Ba Carrier	92.9		30 - 110

Lab Sample ID: 500-258038-30 MS
Matrix: Water
Analysis Batch: 687157

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 683391

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-226	0.0560	U	9.65	9.233		0.993	1.00	0.138	pCi/L	95	60 - 140		

Carrier	MS %Yield	MS Qualifier	Limits
Ba Carrier	87.3		30 - 110

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC) (Continued)

Lab Sample ID: 500-258038-30 MSD — **Client Sample ID: HEN_49_MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 687157 — **Prep Batch: 683391**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.0560	U	9.66	9.157		0.993	1.00	0.134	pCi/L	94	60 - 140	0.04	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*85.3*		*30 - 110*

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-683228/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 685117 — **Prep Batch: 683228**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.3798	U	0.330	0.331	1.00	0.518	pCi/L	10/11/24 08:34	10/25/24 11:58	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*99.7*		*30 - 110*	*10/11/24 08:34*	*10/25/24 11:58*	*1*
Y Carrier	*78.1*		*30 - 110*	*10/11/24 08:34*	*10/25/24 11:58*	*1*

Lab Sample ID: LCS 160-683228/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 685117 — **Prep Batch: 683228**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.40	10.41		1.38	1.00	0.560	pCi/L	124	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*96.2*		*30 - 110*
Y Carrier	*80.4*		*30 - 110*

Lab Sample ID: 500-258038-11 MS — **Client Sample ID: HEN_21R_MS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 685116 — **Prep Batch: 683228**

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	-0.355	U G	11.1	13.37		2.00	1.00	1.08	pCi/L	121	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*83.8*		*30 - 110*
Y Carrier	*81.9*		*30 - 110*

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: 500-258038-11 MSD — **Client Sample ID: HEN_21R-MSD**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 685116 — **Prep Batch: 683228**

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	-0.355	U G	11.0	14.38		2.12	1.00	1.08	pCi/L	130	60 - 140	0.24	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*89.6*		*30 - 110*
Y Carrier	*75.1*		*30 - 110*

Lab Sample ID: MB 160-683390/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 685399 — **Prep Batch: 683390**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4790	U	0.362	0.364	1.00	0.554	pCi/L	10/14/24 08:36	10/28/24 12:21	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*94.9*		*30 - 110*	*10/14/24 08:36*	*10/28/24 12:21*	*1*
Y Carrier	*80.4*		*30 - 110*	*10/14/24 08:36*	*10/28/24 12:21*	*1*

Lab Sample ID: LCS 160-683390/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 685399 — **Prep Batch: 683390**

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.39	10.02		1.44	1.00	0.607	pCi/L	119	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*86.6*		*30 - 110*
Y Carrier	*75.1*		*30 - 110*

Lab Sample ID: MB 160-683393/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 685861 — **Prep Batch: 683393**

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.1309	U	0.286	0.286	1.00	0.580	pCi/L	10/14/24 08:43	10/30/24 11:56	1

Carrier	*MB %Yield*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Ba Carrier	*89.9*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*1*
Y Carrier	*76.6*		*30 - 110*	*10/14/24 08:43*	*10/30/24 11:56*	*1*

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Method: 904.0 - Radium-228 (GFPC) (Continued)

Lab Sample ID: LCS 160-683393/2-A
Matrix: Water
Analysis Batch: 685861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683393

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228			8.39	8.965		1.26	1.00	0.494	pCi/L	107	75 - 125		

Carrier	*LCS %Yield*	*LCS Qualifier*	*Limits*
Ba Carrier	*92.9*		*30 - 110*
Y Carrier	*78.1*		*30 - 110*

Lab Sample ID: 500-258038-30 MS
Matrix: Water
Analysis Batch: 685861

Client Sample ID: HEN_49_MS
Prep Type: Total/NA
Prep Batch: 683393

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits		
Radium-228	-0.00561	U	8.45	9.751		1.35	1.00	0.545	pCi/L	115	60 - 140		

Carrier	*MS %Yield*	*MS Qualifier*	*Limits*
Ba Carrier	*87.3*		*30 - 110*
Y Carrier	*82.6*		*30 - 110*

Lab Sample ID: 500-258038-30 MSD
Matrix: Water
Analysis Batch: 685861

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
Prep Batch: 683393

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	-0.00561	U	8.45	8.691		1.31	1.00	0.657	pCi/L	103	60 - 140	0.40	1

Carrier	*MSD %Yield*	*MSD Qualifier*	*Limits*
Ba Carrier	*85.3*		*30 - 110*
Y Carrier	*72.5*		*30 - 110*

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_08&D
Date Collected: 10/08/24 08:15
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686661	SWS	EET SL	11/04/24 07:48
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685117	FLC	EET SL	10/25/24 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_12
Date Collected: 10/08/24 09:15
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686661	SWS	EET SL	11/04/24 07:48
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685117	FLC	EET SL	10/25/24 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_13
Date Collected: 10/08/24 08:20
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686661	SWS	EET SL	11/04/24 07:48
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685117	FLC	EET SL	10/25/24 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_18&D
Date Collected: 10/08/24 12:50
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686653	SWS	EET SL	11/04/24 07:45
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685116	FLC	EET SL	10/25/24 13:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S
Date Collected: 10/08/24 11:50
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686653	SWS	EET SL	11/04/24 07:45
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685116	FLC	EET SL	10/25/24 13:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_21R
Date Collected: 10/08/24 16:00
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686653	SWS	EET SL	11/04/24 07:45
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685116	FLC	EET SL	10/25/24 13:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_27
Date Collected: 10/08/24 11:55
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686653	SWS	EET SL	11/04/24 07:46
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685116	FLC	EET SL	10/25/24 13:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_32
Date Collected: 10/08/24 11:05
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686653	SWS	EET SL	11/04/24 09:28
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685116	FLC	EET SL	10/25/24 13:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_34
Date Collected: 10/08/24 13:45
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686653	SWS	EET SL	11/04/24 09:28
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685116	FLC	EET SL	10/25/24 13:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_35
Date Collected: 10/08/24 14:35
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686653	SWS	EET SL	11/04/24 09:28
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685116	FLC	EET SL	10/25/24 13:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_35_FD
Date Collected: 10/08/24 14:40
Date Received: 10/09/24 12:00

Lab Sample ID: 500-258038-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683227	BCE	EET SL	10/11/24 08:27
Total/NA	Analysis	903.0		1	686653	SWS	EET SL	11/04/24 09:29
Total/NA	Prep	PrecSep_0			683228	BCE	EET SL	10/11/24 08:34
Total/NA	Analysis	904.0		1	685116	FLC	EET SL	10/25/24 13:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_03R
Date Collected: 10/09/24 10:15
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683389	BCE	EET SL	10/14/24 08:32
Total/NA	Analysis	903.0		1	686864	CMM	EET SL	11/05/24 09:41
Total/NA	Prep	PrecSep_0			683390	BCE	EET SL	10/14/24 08:36
Total/NA	Analysis	904.0		1	685385	FLC	EET SL	10/28/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD
Date Collected: 10/09/24 10:30
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683389	BCE	EET SL	10/14/24 08:32
Total/NA	Analysis	903.0		1	686864	CMM	EET SL	11/05/24 09:41
Total/NA	Prep	PrecSep_0			683390	BCE	EET SL	10/14/24 08:36
Total/NA	Analysis	904.0		1	685385	FLC	EET SL	10/28/24 12:26
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_16
Date Collected: 10/09/24 15:05
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687156	SWS	EET SL	11/06/24 22:45
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_16_FD
Date Collected: 10/09/24 15:20
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687156	SWS	EET SL	11/06/24 22:45
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_17
Date Collected: 10/09/24 14:10
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687156	SWS	EET SL	11/06/24 22:45
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22
Date Collected: 10/09/24 14:25
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-24
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687156	SWS	EET SL	11/06/24 22:45
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_22&D
Date Collected: 10/09/24 13:50
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-25
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687156	SWS	EET SL	11/06/24 22:45
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:56
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_23
Date Collected: 10/09/24 10:15
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-26
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687156	SWS	EET SL	11/06/24 22:45
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_45#S
Date Collected: 10/09/24 09:00
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-27
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687156	SWS	EET SL	11/06/24 22:45
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_46
Date Collected: 10/09/24 11:30
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-28
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687156	SWS	EET SL	11/06/24 22:45
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_47
Date Collected: 10/09/24 12:40
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-29
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687156	SWS	EET SL	11/06/24 22:45
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_49
Date Collected: 10/09/24 11:05
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-30
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687156	SWS	EET SL	11/06/24 22:45
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:57
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_50
Date Collected: 10/09/24 13:05
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-31
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687157	SWS	EET SL	11/06/24 22:44
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
JHEN-257803
SDG: HEN_000_RAD

Client Sample ID: HEN_51
Date Collected: 10/09/24 09:05
Date Received: 10/10/24 11:10

Lab Sample ID: 500-258038-32
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687157	SWS	EET SL	11/06/24 22:44
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:58
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_07
Date Collected: 10/10/24 09:20
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-33
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687157	SWS	EET SL	11/06/24 22:44
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_08
Date Collected: 10/10/24 09:20
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-34
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687157	SWS	EET SL	11/06/24 22:44
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_52
Date Collected: 10/10/24 08:10
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-35
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687157	SWS	EET SL	11/06/24 22:44
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_54
Date Collected: 10/10/24 08:15
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-36
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687133	SWS	EET SL	11/06/24 22:46
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_54_FD
Date Collected: 10/10/24 08:25
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-37
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687133	SWS	EET SL	11/06/24 22:46
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

Client Sample ID: HEN_FB
Date Collected: 10/10/24 09:00
Date Received: 10/10/24 12:46

Lab Sample ID: 500-258038-38
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			683391	BCE	EET SL	10/14/24 08:37
Total/NA	Analysis	903.0		1	687133	SWS	EET SL	11/06/24 22:47
Total/NA	Prep	PrecSep_0			683393	BCE	EET SL	10/14/24 08:43
Total/NA	Analysis	904.0		1	685861	FLC	EET SL	10/30/24 11:59
Total/NA	Analysis	Ra226_Ra228 Pos		1	687605	FLC	EET SL	11/08/24 12:52

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: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_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	11-30-25

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
903.0	PrecSep-21	Water	Radium-226
904.0	PrecSep_0	Water	Radium-228
Ra226_Ra228 Pos		Water	Radium 226 and 228

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address:	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_02			10/7	1615																			X		A		SHORT HOLD - NO2
2	HEN_03R																X	X				X			X		B		~~SHORT HOLD - NO2~~
3	HEN_03R_FD																X	X				X			X		B		SHORT HOLD - NO2
4	HEN_05&DR																				X						E		~~SHORT HOLD - NO2~~
5	HEN_05IR																				X						E		~~SHORT HOLD - NO2~~
6	HEN_07																X	X	X			X	X		X		B		~~SHORT HOLD - NO2~~
7	HEN_08																X	X	X		X	X	X		X		C		~~SHORT HOLD - NO2~~
8	HEN_08&D																X	X	X		X	X	X		X		C		~~SHORT HOLD - NO2~~
9	HEN_10			10/7	1555																X				X		D		SHORT HOLD - NO2
10	HEN_12																X		X		X		X				F		~~SHORT HOLD - NO2~~
11	HEN_13																X		X		X		X				F		~~SHORT HOLD - NO2~~
12	HEN_16																X		X				X				G		
13	HEN_16_FD																X		X				X				G		
14	HEN_17																X		X				X				G		
15	HEN_18&D																X	X				X			X		B		~~SHORT HOLD - NO2~~
16	HEN_18#S																X	X				X			X		B		~~SHORT HOLD - NO2~~

Requested Analysis Filtered (Y/N)

Residual Chlorine (Y/N)

500-258038 COC

Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0		10/7	0700		10/8/24	0917	1.6 / 1.5
		10/8/24	1117	Stephanie Hernandez	10/8/24	1117	

8 dbm 103024

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)	10 7 24				

11/11/24

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Section A Required Client Information

Company	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax:
Requested Due Date/TAT	10 day

Section B Required Project Information:

Report To	Brian Voelker
Copy To	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number	50023030

Section C Invoice Information:

Attention	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference	
Project Manager	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_21R																	X			X				X		X	H		MS/MSD
2	HEN_22																	X			X				X		X	H		
3	HEN_22&D																	X			X				X		X	H		
4	HEN_23																	X			X				X		X	H		
5	HEN_27																	X			X				X		X	H		
6	HEN_32																	X			X				X		X	H		
7	HEN_34																	X			X				X		X	H		
8	HEN_35																	X			X				X		X	H		
9	HEN_35_FD																	X			X				X		X	H		
10	HEN_40#S																					X						E		SHORT HOLD - NO2
11	HEN_45#S																	X	X				X			X		B		SHORT HOLD - NO2
12	HEN_46																	X		X				X				G		
13	HEN_47																	X		X				X				G		
14	HEN_49																	X			X				X		X	H		MS/MSD
15	HEN_50																	X			X				X		X	H		
16	HEN_51																	X			X				X		X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Fleurez	10-24	0700	M.J. Ellian	10/8/24	0917	
	M.J. Ellian	10/8/24	1117	Stephanie Hernandez EEI/A	10/8/24	1117	

8 dbn 103024

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Fleurez

SIGNATURE of SAMPLER: Lorne Fleurez

DATE Signed (MM/DD/YY): 10-7-24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

11/11/24

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address:	13498 E 800th St
	Hennepin, IL 61327
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information

Attention:	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_52																	X		X				X				G	
2	HEN_54																	X		X				X				G	
3	HEN_54_FD																	X		X				X				G	
4	HEN_55																			X				X				I	DTW ONLY
5	HEN_SG02_YSG_IL_River																		X	X	X	X	X	X	X	X	X	I	DTW ONLY
6	HEN_XSG01																			X				X				I	DTW ONLY
7	HEN_FB																	X				X	X			X		C	SHORT HOLD NO2
8	HEN_TB1			10/7/24	00:00																					X		A	BTEX ONLY
9	HEN_TB2																									X		A	BTEX ONLY
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Filewicz	10/7/24	0700	N. J. Ellian	10/8/24	0917	
	N. J. Ellian	10/8/24	1117	Stephanie Hernandez EETA	10/8/24	1117	

8 dbn 10/30/24

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	Lorne Filewicz	DATE Signed (MM/DD/YY)				
SIGNATURE of SAMPLER	Lorne Filewicz	10 7 24				

Sample date and default time added - dbn 102824

HEN-2574803

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

500-258038 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_02																							X		A		SHORT HOLD - NO2
2	~~HEN_03R~~																X	X				X			X		B		SHORT HOLD - NO2
3	~~HEN_03R_FD~~																X	X				X			X		B		SHORT HOLD - NO2
4	HEN_05&DR			10/8/24	0930																X					E		SHORT HOLD - NO2
5	HEN_05IR			10/8/24	1030																X					E		SHORT HOLD - NO2
6	~~HEN_07~~																X	X	X			X	X		X		B		SHORT HOLD - NO2
7	~~HEN_08~~																X	X	X		X	X	X		X		C		SHORT HOLD - NO2
8	HEN_08&D			10/8/24	0815												X	X	X		X	X	X		X		C		SHORT HOLD - NO2
9	~~HEN_10~~																				X				X		D		SHORT HOLD - NO2
10	HEN_12			10/8/24	0915												X		X		X		X				F		SHORT HOLD - NO2
11	HEN_13			10/8/24	0820												X		X		X		X				F		SHORT HOLD - NO2
12	~~HEN_16~~																X		X				X				G		
13	~~HEN_16_FD~~																X		X				X				G		
14	~~HEN_17~~																X		X				X				G		
15	HEN_18&D			10/8/24	1250												X	X				X			X		B		SHORT HOLD - NO2
16	HEN_18#S			10/8/24	1150												X	X				X			X		B		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
HEN-24Q4 Rev 0	Lorne Filewicz	10-8-24	1500	[illegible]	10/9/24	0909				
	[illegible]	10/9/24	1200	[illegible]	10/9/24	1200				

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Lorne Filewicz
SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 10-8-24

1.6→1.5, 3.6→3.5, 3.3→3.2
4.3→4.2, 3.9→3.8

Sample dates added - dbn 102824

500-257803 8

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 2 of 3

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information.	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention.	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha davies@vistracorp com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name:	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE:	IL	

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_21R			10/8/24	1600												X			X				X		X	H		MS/MSD
2	HEN_22																X			X				X		X	H		
3	HEN_22&D																X			X				X		X	H		
4	HEN_23																X			X				X		X	H		
5	HEN_27			10/8/24	1155												X			X				X		X	H		
6	HEN_32			10/8/24	1105												X			X				X		X	H		
7	HEN_34			10/8/24	1345												X			X				X		X	H		
8	HEN_35			10/8/24	1435												X			X				X		X	H		
9	HEN_35_FD			10/8/24	1440												X			X				X		X	H		
10	HEN_40#S			10/8/24	1430																X						E		SHORT HOLD - NO2
11	HEN_45#S																X	X				X			X		B		SHORT HOLD - NO2
12	HEN_46																X		X				X				G		
13	HEN_47																X		X				X				G		
14	HEN_49																X			X				X		X	H		MS/MSD
15	HEN_50																X			X				X		X	H		
16	HEN_51																X			X				X		X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Filarz	10824	1500	M.A. Elliott	10/9/24	0908	
	M.J. Ellis	10/9/24	1200	[illegible]	10/9/24	1200	

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	Lorne Filarz					
SIGNATURE of SAMPLER	Lorne Filarz	DATE Signed (MM/DD/YY) 10-8-24				

Sample dates added - dbn 102824

600-258038

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 3 of 3

Section A Required Client Information:		Section B Required Project Information		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To.	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 /)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_52															X		X				X				G	
2	HEN_54															X		X				X				G	
3	HEN_54_FD															X		X				X				G	
4	HEN_55																	X				X				I	DTW ONLY
5	HEN_SG02_YSG_IL_River																X	X	X	X	X	X	X	X	X	I	DTW ONLY
6	HEN_XSG01																	X				X				I	DTW ONLY
7	HEN_FB															X				X	X			X		C	SHORT HOLD NO2
8	HEN_TB1																							X		A	BTEX ONLY
9	HEN_TB2			10/8/24	00:00																			X		A	BTEX ONLY
10																											
11																											
12																											
13																											
14																											
15																											
16																											

18

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Filewicz	10 8 24	1500	[illegible]	10/8/24	0909	
	[illegible]	10/9/24	1200	[illegible]	10/9/24	1200	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewicz

SIGNATURE of SAMPLER: Lorne Filewicz DATE Signed (MM/DD/YY): 10-8-24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Sample date and default time added - dbn 102824

CHAIN-OF-CUSTODY / Analytical Request Document

500-258038

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 1 of 3

Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention	Brian Voelker
Address	13498 E 800th St	Copy To	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	Requested Analysis Filtered (Y/N)																											500-258038 COC
1	HEN_02																				X			X		A		SHORT HOLD - NO2
2	HEN_03R			10-9-24	1015												X	X				X			X		B		SHORT HOLD - NO2
3	HEN_03R_FD			10-9-24	1030												X	X				X			X		B		SHORT HOLD - NO2
4	HEN_05&DR																				X					E		SHORT HOLD - NO2
5	HEN_05IR																				X					E		SHORT HOLD - NO2
6	HEN_07																X	X	X			X	X	X		B		SHORT HOLD - NO2
7	HEN_08																X	X	X		X	X	X	X		C		SHORT HOLD - NO2
8	HEN_08&D																X	X	X		X	X	X	X		C		SHORT HOLD - NO2
9	HEN_10																				X			X		D		SHORT HOLD - NO2
10	HEN_12																X		X		X		X			F		SHORT HOLD - NO2
11	HEN_13																X		X		X		X			F		SHORT HOLD - NO2
12	HEN_16			10-9-24	1505												X		X				X			G		
13	HEN_16_FD			10-9-24	1520												X		X				X			G		
14	HEN_17			10-9-24	1410												X		X				X			G		
15	HEN_18&D																X	X				X		X		B		SHORT HOLD - NO2
16	HEN_18#S																X	X				X		X		B		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Filewich	101024	0800	T.J. Ellen	10/10/24	0900	
	T.J. Ellen	10/10/24	1110	Stephanie Hemondy EEIA	10/10/24	1110	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Filewich

SIGNATURE of SAMPLER: Lorne Filewich

DATE Signed (MM/DD/YY): 101024

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

5.0+4.9, 5.3+5.2, 5.4+5.3, 4.1+4.0
5.1+5.0

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

500-150030

Page 2 of 3

Section A Required Client Information		Section B Required Project Information.		Section C Invoice Information	
Company:	Vistra Corp-Hennepin	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	13498 E 800th St	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name	Vistra Corp
	Hennepin, IL 61327		Jason Stuckey & Michael Olle	Address	see Section A
Email To	Brian.Voelker@VistraCorp.com	Purchase Order No.	michael.olle@vistracorp.com	Quote Reference	
Phone	(217) 753-8911 Fax:	Project Name	Jason.Stuckey@vistracorp.com	Project Manager:	
Requested Due Date/TAT	10 day	Project Number:	50023030	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I D.
1	~~HEN_21R~~																X			X				X		X	H		MS/MSD
24 2	HEN_22			10-9-24	1425												X			X				X		X	H		
25 3	HEN_22&D			10-9-24	1350												X			X				X		X	H		
26 4	HEN_23			10-9-24	1015												X			X				X		X	H		
5	~~HEN_27~~																X			X				X		X	H		
6	~~HEN_32~~																X			X				X		X	H		
7	~~HEN_34~~																X			X				X		X	H		
8	~~HEN_35~~																X			X				X		X	H		
9	~~HEN_35_FD~~																X			X				X		X	H		
10	~~HEN_40#S~~																				X						E		SHORT HOLD - NO2
27 11	HEN_45#S			10-9-24	0900												X	X				X			X		B		SHORT HOLD - NO2
28 12	HEN_46			10-9-24	1130												X		X				X				G		
29 13	HEN_47			10-9-24	1240												X		X				X				G		
30 14	HEN_49			10-9-24	1105												X			X				X		X	H		MS/MSD
31 15	HEN_50			10-9-24	1305												X			X				X		X	H		
32 16	HEN_51			10-9-24	0905												X			X				X		X	H		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Flowers	101024	0800	R. J. Ellis	10/10/24	0900	
	R. J. Ellis	10/10/24	1110	StephanieHermanOJEET n	10/10/24	1110	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Flowers

SIGNATURE of SAMPLER: Lorne Flowers DATE Signed (MM/DD/YY): 10-10-24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

500-256036-1

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT All relevant fields must be completed accurately

Page 3 of 3

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax:
Requested Due Date/TAT	10 day

Section B Required Project Information.

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information.

Attention:	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_32																X		X				X				G	
2	HEN_54																X		X				X				G	
3	HEN_54_FD																X		X				X				G	
4	HEN_55																		X				X				I	DTW ONLY
5	HEN_SG02_YSG_IL_River																	X	X	X	X	X	X	X	X	X	I	DTW ONLY
6	HEN_XSG01																		X				X				I	DTW ONLY
7	HEN_FB																X				X	X			X		G	SHORT HOLD NO2
8	HEN_TB1																								X		A	BTEX ONLY
9	HEN_TB2																								X		A	BTEX ONLY
10																												
11																												
12																												
13																												
14																												
15																												
16																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	George Filewicz	10/10/24	0800	B. J. Ellam	10/10/24	0900	
	B. J. Ellam	10/10/24	1110	Stephanie Hammond EEP	10/10/24	1110	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George Filewicz

SIGNATURE of SAMPLER: George Filewicz DATE Signed (MM/DD/YY): 10-10-24

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

500-258038

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page 1 of 3

Section A Required Client Information:

Company:	Vistra Corp-Hennepin
Address	13498 E 800th St
	Hennepin, IL 61327
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax
Requested Due Date/TAT	10 day

Section B Required Project Information

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No	michael.olle@vistracorp.com
Project Name	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information:

Attention:	Brian Voelker
Company Name	Vistra Corp
Address	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

500-258038 COC

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_02																							X		A		~~SHORT HOLD - NO2~~
2	HEN_03R																X	X				X		X		B		SHORT HOLD - NO2
3	HEN_03R_FD																X	X				X		X		B		SHORT HOLD - NO2
4	HEN_05&DR																				X					E		~~SHORT HOLD - NO2~~
5	HEN_05IR																				X					E		~~SHORT HOLD - NO2~~
6	HEN_07			10/10/24	0926												X	X	X			X	X		X	B		SHORT HOLD - NO2
7	HEN_08			10/10/24	0920												X	X	X		X	X	X		X	C		SHORT HOLD - NO2
8	HEN_08&D																X	X	X		X	X	X		X	C		SHORT HOLD - NO2
9	HEN_10																				X				X	D		~~SHORT HOLD - NO2~~
10	HEN_12																X		X		X		X			F		~~SHORT HOLD - NO2~~
11	HEN_13																X		X		X		X			F		~~SHORT HOLD - NO2~~
12	HEN_16																X		X				X			G		
13	HEN_16_FD																X		X				X			G		
14	HEN_17																X		X				X			G		
15	HEN_18&D																X	X				X			X	B		SHORT HOLD - NO2
16	HEN_18#S																X	X				X			X	B		SHORT HOLD - NO2

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Lorne Fitzwater	10/10/24	1248				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Lorne Fitzwater

SIGNATURE of SAMPLER: Lorne Fitzwater DATE Signed (MM/DD/YY): 10/10/24

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

14.1 (-1) 13.6 (-2.5) °C

Accepted by: David Kowalski 10/10/24 12:16

dbn 102824

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11/11/24

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803

APPENDIX A.

500-258038

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information

Company:	Vistra Corp-Hennepin
Address:	13498 E 800th St
	Hennepin, IL 61327
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information

Report To:	Brian Voelker
Copy To:	Sam Davies samantha.davies@vistracorp.com
	Jason Stuckey & Michael Olle
Purchase Order No.:	michael.olle@vistracorp.com
Project Name:	Jason.Stuckey@vistracorp.com
Project Number:	50023030

Section C Invoice Information.

Attention:	Brian Voelker
Company Name:	Vistra Corp
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: HEN-000-RAD	HEN-257-802	HEN-257-803	HEN-257-804	HEN-811-801	HEN-845-802-805	HEN-845-803	HEN-845-804	HEN-WPCP-East	HEN-WPCP-West	HEN_000	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	HEN_52			10.10.24	0810												X		X				X				G		
2	HEN_54			101024	0815												X		X				X				G		
3	HEN_54_FD			101024	0825												X		X				X				G		
4	~~HEN_55~~																		X				X				I		DTW ONLY
5	~~HEN_SG02_YSG_IL_River~~																	X	X	X	X	X	X	X	X	X	I		DTW ONLY
6	~~HEN_XSG01~~																		X				X				I		DTW ONLY
7	HEN_FB			101024	0900												X				X	X			X		C		SHORT HOLD NO2
8	~~HEN_TB1~~																								X		A		BTEX ONLY
9	~~HEN_TB2~~																								X		A		BTEX ONLY
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0		101024	1245				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: George Fleming

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 101024

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

Accepted by: [signature] 10/10/24 12:46

dbn 102824

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11/11/24

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT, EAST ASH POND
HEN-257-803

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-258038-2
SDG Number: HEN_000_RAD

Login Number: 258038
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.(33-38 sampled10/10)
Cooler Temperature is recorded.	True	1.5,1.5,3.5,3.2,4.2,3.8,4.9,5.2,5.3,4.0,5.0,13.8,5.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date and/or time on COC, logged in per container labels.
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.	False	No date or time on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-258038-2
SDG Number: HEN_000_RAD

Login Number: 258038
List Number: 4
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 10/10/24 11:17 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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: 500-258038-2
SDG Number: HEN_000_RAD

Login Number: 258038
List Number: 6
Creator: Worthington, Sierra M

List Source: Eurofins St. Louis
List Creation: 10/11/24 11:25 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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	

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
JHEN-257803
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water **Prep Type: Total/NA**

		Percent Yield (Acceptance Limits)						
Lab Sample ID	Client Sample ID	Ba (30-110)						
500-258038-6	HEN_08&D	88.6						
500-258038-7	HEN_12	87.8						
500-258038-8	HEN_13	94.7						
500-258038-9	HEN_18&D	87.6						
500-258038-10	HEN_18#S	91.9						
500-258038-11	HEN_21R	85.6						
500-258038-11 MS	HEN_21R_MS	83.8						
500-258038-11 MSD	HEN_21R-MSD	89.6						
500-258038-12	HEN_27	90.9						
500-258038-13	HEN_32	91.1						
500-258038-14	HEN_34	86.1						
500-258038-15	HEN_35	95.2						
500-258038-16	HEN_35_FD	90.6						
500-258038-19	HEN_03R	87.8						
500-258038-20	HEN_03R_FD	80.8						
500-258038-21	HEN_16	79.7						
500-258038-22	HEN_16_FD	85.8						
500-258038-23	HEN_17	80.3						
500-258038-24	HEN_22	87.8						
500-258038-25	HEN_22&D	87.1						
500-258038-26	HEN_23	84.3						
500-258038-27	HEN_45#S	77.2						
500-258038-28	HEN_46	75.2						
500-258038-29	HEN_47	84.8						
500-258038-30	HEN_49	91.6						
500-258038-30 MS	HEN_49_MS	87.3						
500-258038-30 MSD	HEN_49_MSD	85.3						
500-258038-31	HEN_50	78.5						
500-258038-32	HEN_51	78.0						
500-258038-33	HEN_07	81.5						
500-258038-34	HEN_08	60.3						
500-258038-35	HEN_52	88.6						
500-258038-36	HEN_54	90.1						
500-258038-37	HEN_54_FD	81.8						
500-258038-38	HEN_FB	79.0						
LCS 160-683227/2-A	Lab Control Sample	96.2						
LCS 160-683389/2-A	Lab Control Sample	86.6						
LCS 160-683391/2-A	Lab Control Sample	92.9						
MB 160-683227/1-A	Method Blank	99.7						
MB 160-683389/1-A	Method Blank	94.9						
MB 160-683391/1-A	Method Blank	89.9						

Tracer/Carrier Legend

Ba = Ba Carrier

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
SDG: HEN_000_RAD

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water **Prep Type: Total/NA**

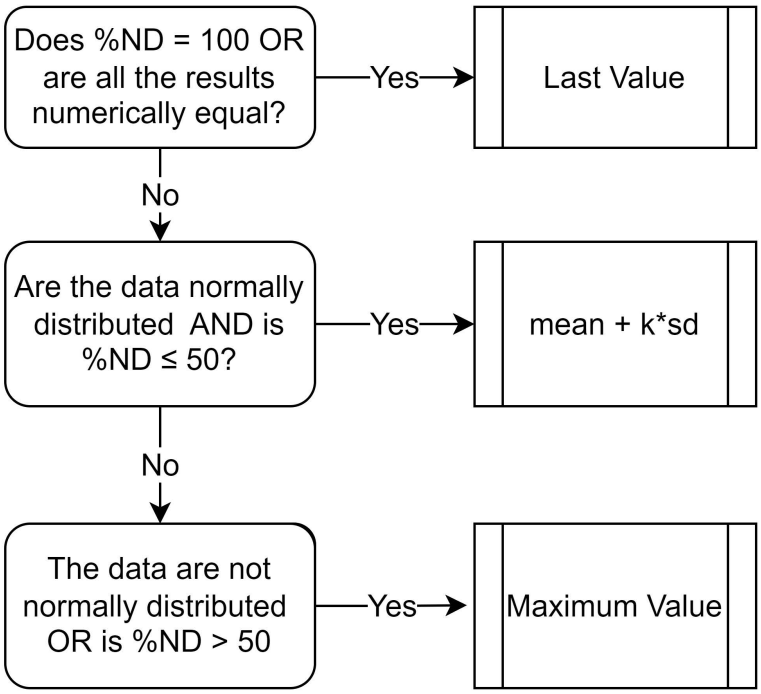
		Percent Yield (Acceptance Limits)	
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)
500-258038-6	HEN_08&D	88.6	74.8
500-258038-7	HEN_12	87.8	74.4
500-258038-8	HEN_13	94.7	76.6
500-258038-9	HEN_18&D	87.6	75.1
500-258038-10	HEN_18#S	91.9	78.5
500-258038-11	HEN_21R	85.6	73.3
500-258038-11 MS	HEN_21R_MS	83.8	81.9
500-258038-11 MSD	HEN_21R-MSD	89.6	75.1
500-258038-12	HEN_27	90.9	76.6
500-258038-13	HEN_32	91.1	77.0
500-258038-14	HEN_34	86.1	71.0
500-258038-15	HEN_35	95.2	76.3
500-258038-16	HEN_35_FD	90.6	66.2
500-258038-19	HEN_03R	87.8	79.3
500-258038-20	HEN_03R_FD	80.8	77.0
500-258038-21	HEN_16	79.7	73.6
500-258038-22	HEN_16_FD	85.8	70.7
500-258038-23	HEN_17	80.3	75.1
500-258038-24	HEN_22	87.8	74.8
500-258038-25	HEN_22&D	87.1	76.6
500-258038-26	HEN_23	84.3	70.3
500-258038-27	HEN_45#S	77.2	68.8
500-258038-28	HEN_46	75.2	66.2
500-258038-29	HEN_47	84.8	77.8
500-258038-30	HEN_49	91.6	66.9
500-258038-30 MS	HEN_49_MS	87.3	82.6
500-258038-30 MSD	HEN_49_MSD	85.3	72.5
500-258038-31	HEN_50	78.5	66.9
500-258038-32	HEN_51	78.0	69.9
500-258038-33	HEN_07	81.5	73.6
500-258038-34	HEN_08	60.3	73.3
500-258038-35	HEN_52	88.6	76.3
500-258038-36	HEN_54	90.1	75.1
500-258038-37	HEN_54_FD	81.8	79.3
500-258038-38	HEN_FB	79.0	72.5
LCS 160-683228/2-A	Lab Control Sample	96.2	80.4
LCS 160-683390/2-A	Lab Control Sample	86.6	75.1
LCS 160-683393/2-A	Lab Control Sample	92.9	78.1
MB 160-683228/1-A	Method Blank	99.7	78.1
MB 160-683390/1-A	Method Blank	94.9	80.4
MB 160-683393/1-A	Method Blank	89.9	76.6

Tracer/Carrier Legend

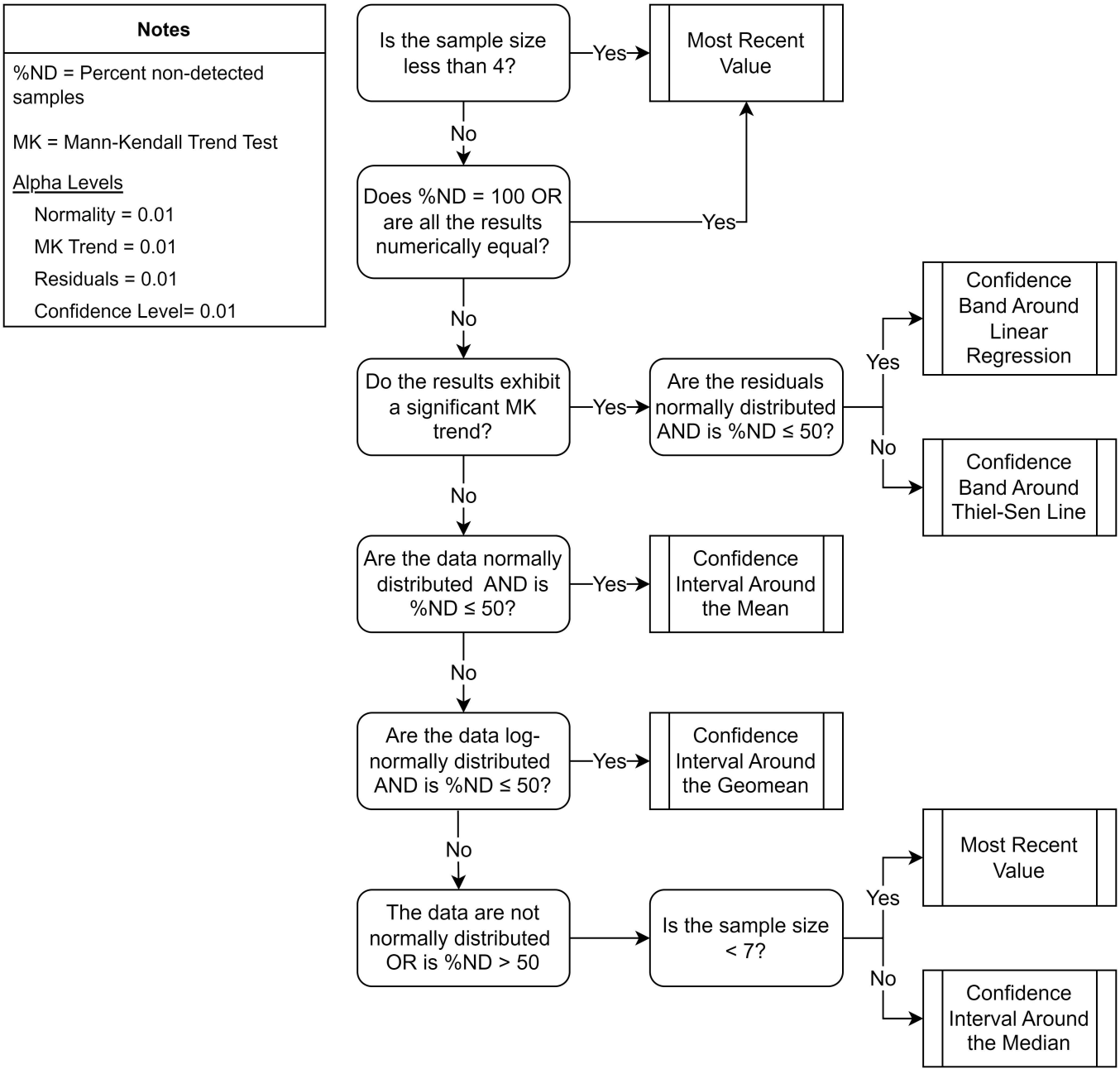
Ba = Ba Carrier
Y = Y Carrier

APPENDIX B
STATISTICAL METHODOLOGY FOR DETERMINATION OF BACKGROUND VALUES

Notes
%ND = Percent non-detected samples sd = standard deviation k = kappa for tolerance limit (95% confidence/95% coverage)



APPENDIX C
STATISTICAL METHODOLGY FOR DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS


Notes
%ND = Percent non-detected samples
MK = Mann-Kendall Trend Test
Alpha Levels
Normality = 0.01
MK Trend = 0.01
Residuals = 0.01
Confidence Level= 0.01
Is the sample size less than 4?
Yes
Most Recent Value
No
Does %ND = 100 OR are all the results numerically equal?
Yes
No
Do the results exhibit a significant MK trend?
Yes
Are the residuals normally distributed AND is %ND ≤ 50?
Yes
Confidence Band Around Linear Regression
No
Confidence Band Around Thiel-Sen Line
No
Are the data normally distributed AND is %ND ≤ 50?
Yes
Confidence Interval Around the Mean
No
Are the data log-normally distributed AND is %ND ≤ 50?
Yes
Confidence Interval Around the Geomean
No
The data are not normally distributed OR is %ND > 50
Is the sample size < 7?
Yes
Most Recent Value
No
Confidence Interval Around the Median