



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

January 10, 2025

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

Re: Hennepin Power Plant Ash Ponds No. 2 and No. 4; IEPA ID # W1550100002-04 and # W1550100002-07

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 4, 2024 sampling event at the Hennepin Power Plant Ash Ponds No. 2 and No. 4, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1550100002-04 and No. W1550100002-07. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances¹ of the GWPS.

Sincerely,

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

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

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 4, 2024, Ash Ponds No. 2 and No. 4, Hennepin Power Plant, Hennepin, Illinois

¹ Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program, which was submitted to the IEPA on October 25, 2021 as part of Dynegy Midwest Generation, LLC's operating permit application for Hennepin Power Plant Ash Pond No. 2 and No. 4. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and therefore Dynegy Midwest Generation, LLC has not identified any actual exceedances.

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES¹
QUARTER 4, 2024
ASH PONDS NO. 2 AND NO. 4, HENNEPIN POWER PLANT, HENNEPIN, ILLINOIS

January 10, 2025

Samples were collected between October 8 and 10, 2024 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on November 11, 2024.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 4, 2024 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 4, 2024 sampling event.

In accordance with 35 I.A.C. § 845.610(b)(3)(C) and the statistical analysis plan submitted with the operating permit application (Appendix A of the Groundwater Monitoring Plan², constituent concentrations observed at compliance monitoring wells in Quarter 4, 2024 were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS (**Table 2**). **Attachment C** shows the results of the comparison to background levels.

The date of this submittal is considered to be the date that the exceedances were detected.

TABLES

Table 1	Field Parameters and Analytical Results - Quarter 4, 2024
Table 2	Evaluation of Compliance - Quarter 4, 2024

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 4, 2024
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 4, 2024
Attachment C	Comparison to Background - Quarter 4, 2024

¹ Throughout this document, "exceedance" or "exceedances" is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program, which was submitted to the IEPA on October 25, 2021 as part of Dynegy Midwest Generation, LLC's operating permit application for Hennepin Power Plant Ash Pond No. 2 and No. 4. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and therefore Dynegy Midwest Generation, LLC has not identified any actual exceedances.

² Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan Addendum for Ash Pond No. 2 and Ash Pond No. 4, Hennepin Power Plant, Hennepin, Illinois. October 25, 2021.*

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
07	Background	E007	10/10/2024	Antimony, total	0.0013 U	mg/L
07	Background	E007	10/10/2024	Arsenic, total	0.00023 U	mg/L
07	Background	E007	10/10/2024	Barium, total	0.120	mg/L
07	Background	E007	10/10/2024	Beryllium, total	0.00053 U	mg/L
07	Background	E007	10/10/2024	Boron, total	0.0690	mg/L
07	Background	E007	10/10/2024	Cadmium, total	0.00017 U	mg/L
07	Background	E007	10/10/2024	Calcium, total	140	mg/L
07	Background	E007	10/10/2024	Chloride, total	54.0	mg/L
07	Background	E007	10/10/2024	Chromium, total	0.0011 U	mg/L
07	Background	E007	10/10/2024	Cobalt, total	0.00370	mg/L
07	Background	E007	10/10/2024	Dissolved Oxygen	5.60	mg/L
07	Background	E007	10/10/2024	Fluoride, total	0.110	mg/L
07	Background	E007	10/10/2024	Lead, total	0.00019 U	mg/L
07	Background	E007	10/10/2024	Lithium, total	0.00960	mg/L
07	Background	E007	10/10/2024	Mercury, total	0.000076 U	mg/L
07	Background	E007	10/10/2024	Molybdenum, total	0.0025 U	mg/L
07	Background	E007	10/10/2024	Oxidation Reduction Potential	113	mV
07	Background	E007	10/10/2024	pH (field)	6.8	SU
07	Background	E007	10/10/2024	Radium 226 + Radium 228, total	0.406	pCi/L
07	Background	E007	10/10/2024	Selenium, total	0.00098 U	mg/L
07	Background	E007	10/10/2024	Specific Conductance @ 25C (field)	1,144	micromhos/cm
07	Background	E007	10/10/2024	Sulfate, total	57.0	mg/L
07	Background	E007	10/10/2024	Temperature	11.5	degrees C
07	Background	E007	10/10/2024	Thallium, total	0.00057 U	mg/L
07	Background	E007	10/10/2024	Total Dissolved Solids	650	mg/L
07	Background	E007	10/10/2024	Turbidity, field	5.30	NTU
08	Background	E007	10/10/2024	Antimony, total	0.0013 U	mg/L
08	Background	E007	10/10/2024	Arsenic, total	0.00023 U	mg/L
08	Background	E007	10/10/2024	Barium, total	0.120	mg/L
08	Background	E007	10/10/2024	Beryllium, total	0.00053 U	mg/L
08	Background	E007	10/10/2024	Boron, total	0.110 J+	mg/L
08	Background	E007	10/10/2024	Cadmium, total	0.00041 J	mg/L
08	Background	E007	10/10/2024	Calcium, total	210	mg/L
08	Background	E007	10/10/2024	Chloride, total	240	mg/L
08	Background	E007	10/10/2024	Chromium, total	0.0011 U	mg/L
08	Background	E007	10/10/2024	Cobalt, total	0.00240	mg/L
08	Background	E007	10/10/2024	Dissolved Oxygen	1.89	mg/L
08	Background	E007	10/10/2024	Fluoride, total	0.086 J	mg/L
08	Background	E007	10/10/2024	Lead, total	0.00031 J	mg/L
08	Background	E007	10/10/2024	Lithium, total	0.0160	mg/L
08	Background	E007	10/10/2024	Mercury, total	0.000076 U	mg/L
08	Background	E007	10/10/2024	Molybdenum, total	0.0025 U	mg/L
08	Background	E007	10/10/2024	Oxidation Reduction Potential	146	mV
08	Background	E007	10/10/2024	pH (field)	6.5	SU
08	Background	E007	10/10/2024	Radium 226 + Radium 228, total	1.07	pCi/L
08	Background	E007	10/10/2024	Selenium, total	0.00098 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
08	Background	E007	10/10/2024	Specific Conductance @ 25C (field)	1,549	micromhos/cm
08	Background	E007	10/10/2024	Sulfate, total	100	mg/L
08	Background	E007	10/10/2024	Temperature	13.7	degrees C
08	Background	E007	10/10/2024	Thallium, total	0.00057 U	mg/L
08	Background	E007	10/10/2024	Total Dissolved Solids	1,100	mg/L
08	Background	E007	10/10/2024	Turbidity, field	9.91	NTU
08D	Background	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
08D	Background	E007	10/08/2024	Arsenic, total	0.00023 U	mg/L
08D	Background	E007	10/08/2024	Barium, total	0.0930	mg/L
08D	Background	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
08D	Background	E007	10/08/2024	Boron, total	0.0930 J+	mg/L
08D	Background	E007	10/08/2024	Cadmium, total	0.00039 J	mg/L
08D	Background	E007	10/08/2024	Calcium, total	170	mg/L
08D	Background	E007	10/08/2024	Chloride, total	240	mg/L
08D	Background	E007	10/08/2024	Chromium, total	0.0011 U	mg/L
08D	Background	E007	10/08/2024	Cobalt, total	0.00200	mg/L
08D	Background	E007	10/08/2024	Dissolved Oxygen	1.58	mg/L
08D	Background	E007	10/08/2024	Fluoride, total	0.100	mg/L
08D	Background	E007	10/08/2024	Lead, total	0.00032 J	mg/L
08D	Background	E007	10/08/2024	Lithium, total	0.0140	mg/L
08D	Background	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
08D	Background	E007	10/08/2024	Molybdenum, total	0.0025 U	mg/L
08D	Background	E007	10/08/2024	Oxidation Reduction Potential	124	mV
08D	Background	E007	10/08/2024	pH (field)	6.7	SU
08D	Background	E007	10/08/2024	Radium 226 + Radium 228, total	0.773	pCi/L
08D	Background	E007	10/08/2024	Selenium, total	0.00098 U	mg/L
08D	Background	E007	10/08/2024	Specific Conductance @ 25C (field)	1,675	micromhos/cm
08D	Background	E007	10/08/2024	Sulfate, total	120	mg/L
08D	Background	E007	10/08/2024	Temperature	13.1	degrees C
08D	Background	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
08D	Background	E007	10/08/2024	Total Dissolved Solids	1,100	mg/L
08D	Background	E007	10/08/2024	Turbidity, field	6.33	NTU
03R	Compliance	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
03R	Compliance	E007	10/09/2024	Arsenic, total	0.00031 J	mg/L
03R	Compliance	E007	10/09/2024	Barium, total	0.0540	mg/L
03R	Compliance	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
03R	Compliance	E007	10/09/2024	Boron, total	0.780	mg/L
03R	Compliance	E007	10/09/2024	Cadmium, total	0.00017 U	mg/L
03R	Compliance	E007	10/09/2024	Calcium, total	86.0	mg/L
03R	Compliance	E007	10/09/2024	Chloride, total	62.0	mg/L
03R	Compliance	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
03R	Compliance	E007	10/09/2024	Cobalt, total	0.0004 U	mg/L
03R	Compliance	E007	10/09/2024	Dissolved Oxygen	1.45	mg/L
03R	Compliance	E007	10/09/2024	Fluoride, total	0.260	mg/L
03R	Compliance	E007	10/09/2024	Lead, total	0.00019 U	mg/L
03R	Compliance	E007	10/09/2024	Lithium, total	0.0190	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
03R	Compliance	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
03R	Compliance	E007	10/09/2024	Molybdenum, total	0.0760	mg/L
03R	Compliance	E007	10/09/2024	Oxidation Reduction Potential	80.7	mV
03R	Compliance	E007	10/09/2024	pH (field)	7.1	SU
03R	Compliance	E007	10/09/2024	Radium 226 + Radium 228, total	0.434	pCi/L
03R	Compliance	E007	10/09/2024	Selenium, total	0.00480	mg/L
03R	Compliance	E007	10/09/2024	Specific Conductance @ 25C (field)	730	micromhos/cm
03R	Compliance	E007	10/09/2024	Sulfate, total	74.0	mg/L
03R	Compliance	E007	10/09/2024	Temperature	17.8	degrees C
03R	Compliance	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
03R	Compliance	E007	10/09/2024	Total Dissolved Solids	490	mg/L
03R	Compliance	E007	10/09/2024	Turbidity, field	7.01	NTU
18S	Compliance	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
18S	Compliance	E007	10/08/2024	Arsenic, total	0.0005 J	mg/L
18S	Compliance	E007	10/08/2024	Barium, total	0.0570	mg/L
18S	Compliance	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
18S	Compliance	E007	10/08/2024	Boron, total	2.60	mg/L
18S	Compliance	E007	10/08/2024	Cadmium, total	0.00017 U	mg/L
18S	Compliance	E007	10/08/2024	Calcium, total	97.0	mg/L
18S	Compliance	E007	10/08/2024	Chloride, total	62.0	mg/L
18S	Compliance	E007	10/08/2024	Chromium, total	0.0011 U	mg/L
18S	Compliance	E007	10/08/2024	Cobalt, total	0.0004 U	mg/L
18S	Compliance	E007	10/08/2024	Dissolved Oxygen	1.11	mg/L
18S	Compliance	E007	10/08/2024	Fluoride, total	0.180	mg/L
18S	Compliance	E007	10/08/2024	Lead, total	0.00019 U	mg/L
18S	Compliance	E007	10/08/2024	Lithium, total	0.0530	mg/L
18S	Compliance	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
18S	Compliance	E007	10/08/2024	Molybdenum, total	0.150	mg/L
18S	Compliance	E007	10/08/2024	Oxidation Reduction Potential	83.9	mV
18S	Compliance	E007	10/08/2024	pH (field)	7.3	SU
18S	Compliance	E007	10/08/2024	Radium 226 + Radium 228, total	0.445	pCi/L
18S	Compliance	E007	10/08/2024	Selenium, total	0.0230	mg/L
18S	Compliance	E007	10/08/2024	Specific Conductance @ 25C (field)	769	micromhos/cm
18S	Compliance	E007	10/08/2024	Sulfate, total	130	mg/L
18S	Compliance	E007	10/08/2024	Temperature	18.4	degrees C
18S	Compliance	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
18S	Compliance	E007	10/08/2024	Total Dissolved Solids	540	mg/L
18S	Compliance	E007	10/08/2024	Turbidity, field	7.22	NTU
18D	Compliance	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
18D	Compliance	E007	10/08/2024	Arsenic, total	0.00054 J	mg/L
18D	Compliance	E007	10/08/2024	Barium, total	0.0640	mg/L
18D	Compliance	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
18D	Compliance	E007	10/08/2024	Boron, total	1.20	mg/L
18D	Compliance	E007	10/08/2024	Cadmium, total	0.00038 J	mg/L
18D	Compliance	E007	10/08/2024	Calcium, total	96.0	mg/L
18D	Compliance	E007	10/08/2024	Chloride, total	68.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
18D	Compliance	E007	10/08/2024	Chromium, total	0.0011 U	mg/L
18D	Compliance	E007	10/08/2024	Cobalt, total	0.00150	mg/L
18D	Compliance	E007	10/08/2024	Dissolved Oxygen	1.47	mg/L
18D	Compliance	E007	10/08/2024	Fluoride, total	0.140	mg/L
18D	Compliance	E007	10/08/2024	Lead, total	0.00033 J	mg/L
18D	Compliance	E007	10/08/2024	Lithium, total	0.0240	mg/L
18D	Compliance	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
18D	Compliance	E007	10/08/2024	Molybdenum, total	0.0310	mg/L
18D	Compliance	E007	10/08/2024	Oxidation Reduction Potential	70.2	mV
18D	Compliance	E007	10/08/2024	pH (field)	7.1	SU
18D	Compliance	E007	10/08/2024	Radium 226 + Radium 228, total	1.43	pCi/L
18D	Compliance	E007	10/08/2024	Selenium, total	0.00098 U	mg/L
18D	Compliance	E007	10/08/2024	Specific Conductance @ 25C (field)	781	micromhos/cm
18D	Compliance	E007	10/08/2024	Sulfate, total	110	mg/L
18D	Compliance	E007	10/08/2024	Temperature	18.1	degrees C
18D	Compliance	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
18D	Compliance	E007	10/08/2024	Total Dissolved Solids	500	mg/L
18D	Compliance	E007	10/08/2024	Turbidity, field	22.2	NTU
45S	Compliance	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
45S	Compliance	E007	10/09/2024	Arsenic, total	0.00023 U	mg/L
45S	Compliance	E007	10/09/2024	Barium, total	0.0700	mg/L
45S	Compliance	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
45S	Compliance	E007	10/09/2024	Boron, total	0.320 J+	mg/L
45S	Compliance	E007	10/09/2024	Cadmium, total	0.000940	mg/L
45S	Compliance	E007	10/09/2024	Calcium, total	90.0	mg/L
45S	Compliance	E007	10/09/2024	Chloride, total	70.0	mg/L
45S	Compliance	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
45S	Compliance	E007	10/09/2024	Cobalt, total	0.00150	mg/L
45S	Compliance	E007	10/09/2024	Dissolved Oxygen	1.39	mg/L
45S	Compliance	E007	10/09/2024	Fluoride, total	0.250	mg/L
45S	Compliance	E007	10/09/2024	Lead, total	0.00028 J	mg/L
45S	Compliance	E007	10/09/2024	Lithium, total	0.0120	mg/L
45S	Compliance	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
45S	Compliance	E007	10/09/2024	Molybdenum, total	0.0460	mg/L
45S	Compliance	E007	10/09/2024	Oxidation Reduction Potential	62.7	mV
45S	Compliance	E007	10/09/2024	pH (field)	7.1	SU
45S	Compliance	E007	10/09/2024	Radium 226 + Radium 228, total	0.0985	pCi/L
45S	Compliance	E007	10/09/2024	Selenium, total	0.00098 U	mg/L
45S	Compliance	E007	10/09/2024	Specific Conductance @ 25C (field)	797	micromhos/cm
45S	Compliance	E007	10/09/2024	Sulfate, total	68.0	mg/L
45S	Compliance	E007	10/09/2024	Temperature	18.4	degrees C
45S	Compliance	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
45S	Compliance	E007	10/09/2024	Total Dissolved Solids	510	mg/L
45S	Compliance	E007	10/09/2024	Turbidity, field	9.72	NTU

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Notes:

C = Celsius

cm = centimeter

Events:

E007 = Quarter 4, 2024 sampling event

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

Result Code (if applicable):

NR¹ = Parameter not analyzed.

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

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

NS³ = The location was not accessible; therefore, a sample was not collected.

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

NS⁵ = The location was damaged; therefore, a sample was not collected.

NS⁶ = Sampling pump could not yield a sample.

NS⁷ = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.

NS⁸ = A sample was not collected.

PM¹ = 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.

SU = Standard Units

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
03R	UA	E007	Antimony, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.003	0.006	Standard	No Exceedance
03R	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/09/24	29	100	All ND - Last	0.001	0.010	Standard	No Exceedance
03R	UA	E007	Barium, total	mg/L	12/09/15 - 10/09/24	31	0	CI around mean	0.062	2.0	Standard	No Exceedance
03R	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.001	0.004	Standard	No Exceedance
03R	UA	E007	Boron, total	mg/L	12/09/15 - 10/09/24	35	0	CB around T-S line	0.356	2	Standard	No Exceedance
03R	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/09/24	30	93	CB around T-S line	0.000596	0.005	Standard	No Exceedance
03R	UA	E007	Chloride, total	mg/L	12/09/15 - 10/09/24	35	0	CI around geomean	71.3	435	Background	No Exceedance
03R	UA	E007	Chromium, total	mg/L	12/09/15 - 10/09/24	29	93	CB around T-S line	0.0015	0.1	Standard	No Exceedance
03R	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/09/24	30	97	CI around median	0.001	0.0380	Background	No Exceedance
03R	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/09/24	32	3	CI around median	0.27	4.0	Standard	No Exceedance
03R	UA	E007	Lead, total	mg/L	12/09/15 - 10/09/24	29	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
03R	UA	E007	Lithium, total	mg/L	12/09/15 - 10/09/24	34	0	CI around mean	0.0232	0.04	Standard	No Exceedance
03R	UA	E007	Mercury, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
03R	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/09/24	34	0	CB around linear reg	0.0683	0.1	Standard	No Exceedance
03R	UA	E007	pH (field)	SU	12/09/15 - 10/09/24	38	0	CB around T-S line	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
03R	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/09/24	29	0	CI around median	0.28	5	Standard	No Exceedance
03R	UA	E007	Selenium, total	mg/L	12/09/15 - 10/09/24	31	6	CI around mean	0.00472	0.05	Standard	No Exceedance
03R	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/09/24	34	0	CB around linear reg	71.8	400	Standard	No Exceedance
03R	UA	E007	Thallium, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.002	0.002	Standard	No Exceedance
03R	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/09/24	35	0	CI around mean	514	1,620	Background	No Exceedance
18S	UA	E007	Antimony, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.003	0.006	Standard	No Exceedance
18S	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/08/24	29	97	CI around median	0.001	0.010	Standard	No Exceedance
18S	UA	E007	Barium, total	mg/L	12/09/15 - 10/08/24	31	0	CB around linear reg	0.0507	2.0	Standard	No Exceedance
18S	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.001	0.004	Standard	No Exceedance
18S	UA	E007	Boron, total	mg/L	12/09/15 - 10/08/24	35	0	CB around T-S line	1.15	2	Standard	No Exceedance
18S	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/08/24	30	79	CB around T-S line	0.000586	0.005	Standard	No Exceedance
18S	UA	E007	Chloride, total	mg/L	12/09/15 - 10/08/24	35	0	CB around linear reg	67.8	435	Background	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
18S	UA	E007	Chromium, total	mg/L	12/09/15 - 10/08/24	30	62	CB around T-S line	0.0015	0.1	Standard	No Exceedance
18S	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/08/24	30	85	CI around median	0.001	0.0380	Background	No Exceedance
18S	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/08/24	32	3	CB around T-S line	0.168	4.0	Standard	No Exceedance
18S	UA	E007	Lead, total	mg/L	12/09/15 - 10/08/24	29	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
18S	UA	E007	Lithium, total	mg/L	12/09/15 - 10/08/24	34	0	CB around T-S line	0.0333	0.04	Standard	No Exceedance
18S	UA	E007	Mercury, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
18S	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/08/24	34	0	CB around linear reg	0.081	0.1	Standard	No Exceedance
18S	UA	E007	pH (field)	SU	12/09/15 - 10/08/24	38	0	CI around median	7.3/7.4	6.5/9.0	Standard/Standard	No Exceedance
18S	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	29	0	CI around mean	0.356	5	Standard	No Exceedance
18S	UA	E007	Selenium, total	mg/L	12/09/15 - 10/08/24	31	3	CB around T-S line	0.00105	0.05	Standard	No Exceedance
18S	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/08/24	35	0	CB around T-S line	85.2	400	Standard	No Exceedance
18S	UA	E007	Thallium, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.002	0.002	Standard	No Exceedance
18S	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/08/24	35	0	CI around geomean	568	1,620	Background	No Exceedance
18D	UA	E007	Antimony, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.003	0.006	Standard	No Exceedance
18D	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/08/24	29	97	CI around median	0.001	0.010	Standard	No Exceedance
18D	UA	E007	Barium, total	mg/L	12/09/15 - 10/08/24	31	0	CB around T-S line	0.0618	2.0	Standard	No Exceedance
18D	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.001	0.004	Standard	No Exceedance
18D	UA	E007	Boron, total	mg/L	12/09/15 - 10/08/24	35	0	CB around linear reg	1.12	2	Standard	No Exceedance
18D	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/08/24	30	94	CB around T-S line	0.000765	0.005	Standard	No Exceedance
18D	UA	E007	Chloride, total	mg/L	12/09/15 - 10/08/24	35	0	CI around mean	75.4	435	Background	No Exceedance
18D	UA	E007	Chromium, total	mg/L	12/09/15 - 10/08/24	29	94	CB around T-S line	0.0015	0.1	Standard	No Exceedance
18D	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/08/24	31	3	CB around linear reg	-0.000248	0.0380	Background	No Exceedance
18D	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/08/24	32	3	CI around median	0.15	4.0	Standard	No Exceedance
18D	UA	E007	Lead, total	mg/L	12/09/15 - 10/08/24	29	91	CB around T-S line	0.000827	0.0075	Standard	No Exceedance
18D	UA	E007	Lithium, total	mg/L	12/09/15 - 10/08/24	34	0	CB around linear reg	0.0225	0.04	Standard	No Exceedance
18D	UA	E007	Mercury, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
18D	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/08/24	34	0	CI around median	0.0315	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
18D	UA	E007	pH (field)	SU	12/09/15 - 10/08/24	38	0	CI around median	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
18D	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	29	0	CI around mean	0.575	5	Standard	No Exceedance
18D	UA	E007	Selenium, total	mg/L	12/09/15 - 10/08/24	30	94	CB around T-S line	0.001	0.05	Standard	No Exceedance
18D	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/08/24	35	0	CB around linear reg	86.5	400	Standard	No Exceedance
18D	UA	E007	Thallium, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.002	0.002	Standard	No Exceedance
18D	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/08/24	35	0	CB around T-S line	469	1,620	Background	No Exceedance
45S	UA	E007	Antimony, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.003	0.006	Standard	No Exceedance
45S	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/09/24	29	93	CI around median	0.001	0.010	Standard	No Exceedance
45S	UA	E007	Barium, total	mg/L	12/09/15 - 10/09/24	31	0	CB around linear reg	0.0783	2.0	Standard	No Exceedance
45S	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.001	0.004	Standard	No Exceedance
45S	UA	E007	Boron, total	mg/L	12/09/15 - 10/09/24	32	0	CB around linear reg	0.22	2	Standard	No Exceedance
45S	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/09/24	30	40	CB around linear reg	0.000582	0.005	Standard	No Exceedance
45S	UA	E007	Chloride, total	mg/L	12/09/15 - 10/09/24	32	0	CI around mean	81.2	435	Background	No Exceedance
45S	UA	E007	Chromium, total	mg/L	12/09/15 - 10/09/24	30	93	CB around T-S line	0.0015	0.1	Standard	No Exceedance
45S	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/09/24	31	13	CI around geomean	0.00142	0.0380	Background	No Exceedance
45S	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/09/24	32	3	CB around T-S line	0.241	4.0	Standard	No Exceedance
45S	UA	E007	Lead, total	mg/L	12/09/15 - 10/09/24	29	79	CI around median	0.001	0.0075	Standard	No Exceedance
45S	UA	E007	Lithium, total	mg/L	12/09/15 - 10/09/24	31	0	CB around linear reg	0.0108	0.04	Standard	No Exceedance
45S	UA	E007	Mercury, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
45S	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/09/24	31	0	CB around linear reg	0.0396	0.1	Standard	No Exceedance
45S	UA	E007	pH (field)	SU	12/09/15 - 10/09/24	32	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
45S	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/09/24	29	0	CI around geomean	0.457	5	Standard	No Exceedance
45S	UA	E007	Selenium, total	mg/L	12/09/15 - 10/09/24	30	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
45S	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/09/24	32	0	CI around median	70	400	Standard	No Exceedance
45S	UA	E007	Thallium, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.002	0.002	Standard	No Exceedance
45S	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/09/24	32	0	CI around mean	527	1,620	Background	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Notes:

Compliance Result:

No Exceedance: the statistical result did not exceed the GWPS.
Throughout this document, “exceedance” or “exceedances” is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) on October 25, 2021 as part of Dynegy Midwest Generation, LLC’s (DMG’s) operating permit application for the Ash Pond No. 2 and Ash Pond No. 4. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, DMG has not identified any actual exceedances.

Events:

E007 = Quarter 4, 2024 sampling event

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

Statistical Result Code (if applicable):

NR¹ = Parameter not analyzed.

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

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

NS³ = The location was not accessible; therefore, a sample was not collected.

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

NS⁵ = The location was damaged; therefore, a sample was not collected.

NS⁶ = Sampling pump could not yield a sample.

NS⁷ = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.

NS⁸ = A sample was not collected.

PM¹ = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

For pH, the values presented are the lower / upper limits

GWPS Source:

Background = background concentration

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

FIGURES



- BACKGROUND WELL
- COMPLIANCE WELL
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

0 200 400
Feet

MONITORING WELL LOCATION
MAP

ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 4, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
03R	Compliance	10/07/2024	36.01	446.48
07	Background	10/07/2024	69.10	449.69
08	Background	10/07/2024	54.71	446.80
08D	Background	10/07/2024	55.12	446.65
18S	Compliance	10/07/2024	41.63	446.35
18D	Compliance	10/07/2024	41.99	446.05
45S	Compliance	10/07/2024	21.29	446.40

Notes:
BMP = below measuring point
Depth to Groundwater/Groundwater Elevation Code (if applicable):
DM¹ = Depth to water was not measured.
DM² = Depth to water was not measured because water was above or below the staff gage markings.
DM³ = Depth to water was not measured because the location was inaccessible.
DM⁴ = Depth to water was not measured because water level was below the top of the pump.
DM⁵ = Depth to water was not measured because water level was above the top of casing (artesian well).
DM⁶ = Depth to water was not measured because of damage to the well.
DM⁷ = Depth to water was not measured due to required pressure transducer maintenance.
DM⁸ = Lab provided groundwater elevation data and not depth to water.
NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 4, 2024**

ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/01/24 09:45:33

JOB DESCRIPTION

HEN-24Q4
HEN_845_802-805

JOB NUMBER

500-258038-9

Job Notes

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

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

Authorization



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11/01/24 09:45:33

Authorized for release by
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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
IN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Client: Vistra Energy Corp
Project: HEN-24Q4

Job ID: 500-258038-9

Job ID: 500-258038-9

Eurofins Chicago

Job Narrative 500-258038-9

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 1.5° C, 1.5° C, 3.2° C, 3.5° C, 3.8° C, 4.0° C, 4.2° C, 4.9° C, 5.0° C, 5.2° C, 5.3° C, 5.9° C and 13.8° 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)

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.

Method 300.0: The method blank for analytical batch 500-792441 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.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

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_18&D

Lab Sample ID: 500-258038-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.024		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total Recoverable
Arsenic	0.00054	J	0.0010	0.00023	mg/L	1			6020B	Total Recoverable
Barium	0.064		0.0025	0.00073	mg/L	1			6020B	Total Recoverable
Boron	1.2	B	0.050	0.013	mg/L	1			6020B	Total Recoverable
Cadmium	0.00038	J	0.00050	0.00017	mg/L	1			6020B	Total Recoverable
Calcium	96		0.20	0.044	mg/L	1			6020B	Total Recoverable
Cobalt	0.0015		0.0010	0.00040	mg/L	1			6020B	Total Recoverable
Lead	0.00033	J	0.00050	0.00019	mg/L	1			6020B	Total Recoverable
Magnesium	29		0.20	0.049	mg/L	1			6020B	Total Recoverable
Molybdenum	0.031		0.0050	0.0025	mg/L	1			6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_18&D (Continued)

Lab Sample ID: 500-258038-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Potassium	9.0		0.50	0.11	mg/L	1			6020B	Total
Sodium	51		0.20	0.077	mg/L	1			6020B	Recoverable
Chloride	68		5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	110		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	500		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)	41.80				ft	1			Field Sampling	Total/NA
Field pH	7.06				SU	1			Field Sampling	Total/NA
Field Temperature	18.1				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	70.2				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	1.47				mg/L	1			Field Sampling	Total/NA
Specific Conductance	781				umhos/cm	1			Field Sampling	Total/NA
Turbidity	22.20				NTU	1			Field Sampling	Total/NA

Client Sample ID: HEN_18#S

Lab Sample ID: 500-258038-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.053		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total
Arsenic	0.00050	J	0.0010	0.00023	mg/L	1			6020B	Recoverable
Barium	0.057		0.0025	0.00073	mg/L	1			6020B	Total
Boron	2.6	B	0.050	0.013	mg/L	1			6020B	Recoverable
Calcium	97		0.20	0.044	mg/L	1			6020B	Total
Magnesium	24		0.20	0.049	mg/L	1			6020B	Recoverable
Molybdenum	0.15		0.0050	0.0025	mg/L	1			6020B	Total
Potassium	10		0.50	0.11	mg/L	1			6020B	Recoverable
Selenium	0.023		0.0025	0.00098	mg/L	1			6020B	Total
Sodium	51		0.20	0.077	mg/L	1			6020B	Recoverable
Chloride	62		5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	130		5.0	1.0	mg/L	5			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	210	B	5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	540		10	4.3	mg/L	1			SM 2540C	Total/NA
Fluoride	0.18		0.10	0.056	mg/L	1			SM 4500 F C	Total/NA
Depth to Water (ft from MP)	41.59				ft	1			Field Sampling	Total/NA
Field pH	7.31				SU	1			Field Sampling	Total/NA
Field Temperature	18.4				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	83.9				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	1.11				mg/L	1			Field Sampling	Total/NA
Specific Conductance	769				umhos/cm	1			Field Sampling	Total/NA
Turbidity	7.22				NTU	1			Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_03R

Lab Sample ID: 500-258038-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.019		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	0.054		0.0025	0.00073	mg/L	1			6020B	Total Recoverable
Boron	0.78	B	0.050	0.013	mg/L	1			6020B	Total Recoverable
Calcium	86		0.20	0.044	mg/L	1			6020B	Total Recoverable
Magnesium	26		0.20	0.049	mg/L	1			6020B	Total Recoverable
Molybdenum	0.076		0.0050	0.0025	mg/L	1			6020B	Total Recoverable
Potassium	8.0		0.50	0.11	mg/L	1			6020B	Total Recoverable
Selenium	0.0048		0.0025	0.00098	mg/L	1			6020B	Total Recoverable
Sodium	50		0.20	0.077	mg/L	1			6020B	Total Recoverable
Chloride	62		5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	74		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	490		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)	35.92				ft	1			Field Sampling	Total/NA
Field pH	7.11				SU	1			Field Sampling	Total/NA
Field Temperature	17.8				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	80.7				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	1.45				mg/L	1			Field Sampling	Total/NA
Specific Conductance	730				umhos/cm	1			Field Sampling	Total/NA
Turbidity	7.01				NTU	1			Field Sampling	Total/NA

Client Sample ID: HEN_03R_FD

Lab Sample ID: 500-258038-20

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	0.00026	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	0.78	B	0.050	0.013	mg/L	1			6020B	Total Recoverable
Calcium	84		0.20	0.044	mg/L	1			6020B	Total Recoverable
Magnesium	25		0.20	0.049	mg/L	1			6020B	Total Recoverable
Molybdenum	0.077		0.0050	0.0025	mg/L	1			6020B	Total Recoverable
Potassium	8.0		0.50	0.11	mg/L	1			6020B	Total Recoverable
Selenium	0.0054		0.0025	0.00098	mg/L	1			6020B	Total Recoverable
Sodium	49		0.20	0.077	mg/L	1			6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_03R_FD (Continued)

Lab Sample ID: 500-258038-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	62		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	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)	35.92				ft	1		Field Sampling	Total/NA
Field pH	7.11				SU	1		Field Sampling	Total/NA
Field Temperature	17.8				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	80.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.45				mg/L	1		Field Sampling	Total/NA
Specific Conductance	730				umhos/cm	1		Field Sampling	Total/NA
Turbidity	7.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_45#S

Lab Sample ID: 500-258038-27

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
Barium	0.070		0.0025	0.00073	mg/L	1		6020B	Recoverable
Boron	0.32	B	0.050	0.013	mg/L	1		6020B	Total
Cadmium	0.00094		0.00050	0.00017	mg/L	1		6020B	Recoverable
Calcium	90		0.20	0.044	mg/L	1		6020B	Total
Cobalt	0.0015		0.0010	0.00040	mg/L	1		6020B	Recoverable
Lead	0.00028	J	0.00050	0.00019	mg/L	1		6020B	Total
Magnesium	29		0.20	0.049	mg/L	1		6020B	Recoverable
Molybdenum	0.046		0.0050	0.0025	mg/L	1		6020B	Total
Potassium	5.8		0.50	0.11	mg/L	1		6020B	Recoverable
Sodium	75		0.20	0.077	mg/L	1		6020B	Total
Chloride	70		5.0	0.58	mg/L	5		300.0	Recoverable
Sulfate	68		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	290		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	0.25		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	21.21				ft	1		Field Sampling	Total/NA
Field pH	7.06				SU	1		Field Sampling	Total/NA
Field Temperature	18.4				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	62.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.39				mg/L	1		Field Sampling	Total/NA
Specific Conductance	797				umhos/cm	1		Field Sampling	Total/NA
Turbidity	9.72				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

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
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Recoverable
Boron	0.069	B	0.050	0.013	mg/L	1		6020B	Total
Calcium	140		0.20	0.044	mg/L	1		6020B	Recoverable
Cobalt	0.0037		0.0010	0.00040	mg/L	1		6020B	Total
Magnesium	43		0.20	0.049	mg/L	1		6020B	Recoverable
Potassium	2.7		0.50	0.11	mg/L	1		6020B	Total
Sodium	42		0.20	0.077	mg/L	1		6020B	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
Barium	0.12		0.0025	0.00073	mg/L	1		6020B	Recoverable
Boron	0.11	B	0.050	0.013	mg/L	1		6020B	Total
Cadmium	0.00041	J	0.00050	0.00017	mg/L	1		6020B	Recoverable
Calcium	210		0.20	0.044	mg/L	1		6020B	Total
Cobalt	0.0024		0.0010	0.00040	mg/L	1		6020B	Recoverable
Lead	0.00031	J	0.00050	0.00019	mg/L	1		6020B	Total
Magnesium	57		0.20	0.049	mg/L	1		6020B	Recoverable
Potassium	7.9		0.50	0.11	mg/L	1		6020B	Total
Sodium	110		0.20	0.077	mg/L	1		6020B	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

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
HEN-24Q4-802-805
SDG: HEN_845_802-805

Client Sample ID: HEN_08 (Continued)

Lab Sample ID: 500-258038-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
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

Client Sample ID: HEN_FB

Lab Sample ID: 500-258038-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	0.023	J B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Chloride	0.15	J B	1.0	0.12	mg/L	1		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	3.9	J	5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	10		10	4.3	mg/L	1		SM 2540C	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.

Eurofins Chicago

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-9
HEN-24-802-805
SDG: HEN_845_802-805

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

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
500-258038-9	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
500-258038-19	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
500-258038-27	HEN_45#S	Water	10/09/24 09:00	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
500-258038-38	HEN_FB	Water	10/10/24 09:00	10/10/24 12:46
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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
HEN-24Q4-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_08&D

Lab Sample ID: 500-258038-6

Date Collected: 10/08/24 08:15

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
HEN-24Q4
SDG: HEN_845_802-805

Client Sample ID: HEN_18&D

Lab Sample ID: 500-258038-9

Date Collected: 10/08/24 12:50

Matrix: Water

Date Received: 10/09/24 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.024		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 12:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:07	10/23/24 16:10	1
Arsenic	0.00054	J	0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 16:10	1
Barium	0.064		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 16:10	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 16:10	1
Boron	1.2	B	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 16:10	1
Cadmium	0.00038	J	0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 16:10	1
Calcium	96		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 16:10	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 16:10	1
Cobalt	0.0015		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 16:10	1
Lead	0.00033	J	0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 16:10	1
Magnesium	29		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 16:10	1
Molybdenum	0.031		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 16:10	1
Potassium	9.0		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 16:10	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 16:10	1
Sodium	51		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 16:10	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 16:10	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 08:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	68		5.0	0.58	mg/L			10/17/24 02:49	5
Sulfate (EPA 300.0)	110		5.0	1.0	mg/L			10/17/24 02:49	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	250	B	5.0	3.7	mg/L			10/21/24 13:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/21/24 13:50	1
Total Dissolved Solids (SM 2540C)	500		10	4.3	mg/L			10/11/24 01:48	1
Fluoride (SM 4500 F C)	0.14		0.10	0.056	mg/L			10/10/24 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)	41.80				ft			10/08/24 12:50	1
Field pH	7.06				SU			10/08/24 12:50	1
Field Temperature	18.1				Degrees C			10/08/24 12:50	1
Oxidation Reduction Potential	70.2				millivolts			10/08/24 12:50	1
Oxygen, Dissolved	1.47				mg/L			10/08/24 12:50	1
Specific Conductance	781				umhos/cm			10/08/24 12:50	1
Turbidity	22.20				NTU			10/08/24 12:50	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_18#S

Lab Sample ID: 500-258038-10

Date Collected: 10/08/24 11:50

Matrix: Water

Date Received: 10/09/24 12:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.053		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 12:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:07	10/23/24 16:13	1
Arsenic	0.00050	J	0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 16:13	1
Barium	0.057		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 16:13	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 16:13	1
Boron	2.6	B	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 16:13	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 16:13	1
Calcium	97		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 16:13	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 16:13	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 16:13	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 16:13	1
Magnesium	24		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 16:13	1
Molybdenum	0.15		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 16:13	1
Potassium	10		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 16:13	1
Selenium	0.023		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 16:13	1
Sodium	51		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 16:13	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 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		10/21/24 11:05	10/22/24 08:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	62		5.0	0.58	mg/L			10/17/24 03:21	5
Sulfate (EPA 300.0)	130		5.0	1.0	mg/L			10/17/24 03:21	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	210	B	5.0	3.7	mg/L			10/21/24 14:00	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/21/24 14:00	1
Total Dissolved Solids (SM 2540C)	540		10	4.3	mg/L			10/11/24 01:51	1
Fluoride (SM 4500 F C)	0.18		0.10	0.056	mg/L			10/10/24 13:58	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	41.59				ft			10/08/24 11:50	1
Field pH	7.31				SU			10/08/24 11:50	1
Field Temperature	18.4				Degrees C			10/08/24 11:50	1
Oxidation Reduction Potential	83.9				millivolts			10/08/24 11:50	1
Oxygen, Dissolved	1.11				mg/L			10/08/24 11:50	1
Specific Conductance	769				umhos/cm			10/08/24 11:50	1
Turbidity	7.22				NTU			10/08/24 11:50	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_03R

Lab Sample ID: 500-258038-19

Date Collected: 10/09/24 10:15

Matrix: Water

Date Received: 10/10/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.019		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 13:19	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 09:07	10/23/24 17:07	1
Arsenic	0.00031	J	0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 17:07	1
Barium	0.054		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 17:07	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 17:07	1
Boron	0.78	B	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 17:07	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 17:07	1
Calcium	86		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 17:07	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 17:07	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 17:07	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 17:07	1
Magnesium	26		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 17:07	1
Molybdenum	0.076		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 17:07	1
Potassium	8.0		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 17:07	1
Selenium	0.0048		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 17:07	1
Sodium	50		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 17:07	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 17:07	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		10/22/24 11:40	10/23/24 09:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	62		5.0	0.58	mg/L			10/17/24 12:45	5
Sulfate (EPA 300.0)	74		5.0	1.0	mg/L			10/17/24 12:45	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	250	B	5.0	3.7	mg/L			10/21/24 17:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/21/24 17:27	1
Total Dissolved Solids (SM 2540C)	490		10	4.3	mg/L			10/11/24 03:09	1
Fluoride (SM 4500 F C)	0.26		0.10	0.056	mg/L			10/18/24 16:05	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	35.92				ft			10/09/24 10:15	1
Field pH	7.11				SU			10/09/24 10:15	1
Field Temperature	17.8				Degrees C			10/09/24 10:15	1
Oxidation Reduction Potential	80.7				millivolts			10/09/24 10:15	1
Oxygen, Dissolved	1.45				mg/L			10/09/24 10:15	1
Specific Conductance	730				umhos/cm			10/09/24 10:15	1
Turbidity	7.01				NTU			10/09/24 10:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_03R_FD

Lab Sample ID: 500-258038-20

Date Collected: 10/09/24 10:30

Matrix: Water

Date Received: 10/10/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.018		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 13:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:07	10/23/24 17:10	1
Arsenic	0.00026	J	0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 17:10	1
Barium	0.053		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 17:10	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 17:10	1
Boron	0.78	B	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 17:10	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 17:10	1
Calcium	84		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 17:10	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 17:10	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 17:10	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 17:10	1
Magnesium	25		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 17:10	1
Molybdenum	0.077		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 17:10	1
Potassium	8.0		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 17:10	1
Selenium	0.0054		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 17:10	1
Sodium	49		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 17:10	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 17:10	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 10:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	62		5.0	0.58	mg/L			10/17/24 13:16	5
Sulfate (EPA 300.0)	75		5.0	1.0	mg/L			10/17/24 13:16	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	240		5.0	3.7	mg/L			10/22/24 16:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 16:29	1
Total Dissolved Solids (SM 2540C)	510		10	4.3	mg/L			10/11/24 03:12	1
Fluoride (SM 4500 F C)	0.26		0.10	0.056	mg/L			10/18/24 16:10	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	35.92				ft			10/09/24 10:30	1
Field pH	7.11				SU			10/09/24 10:30	1
Field Temperature	17.8				Degrees C			10/09/24 10:30	1
Oxidation Reduction Potential	80.7				millivolts			10/09/24 10:30	1
Oxygen, Dissolved	1.45				mg/L			10/09/24 10:30	1
Specific Conductance	730				umhos/cm			10/09/24 10:30	1
Turbidity	7.01				NTU			10/09/24 10:30	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_45#S

Lab Sample ID: 500-258038-27

Date Collected: 10/09/24 09:00

Matrix: Water

Date Received: 10/10/24 11:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.012		0.0050	0.0020	mg/L		10/22/24 09:15	10/23/24 14:04	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 17:31	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:07	10/23/24 17:31	1
Barium	0.070		0.0025	0.00073	mg/L		10/22/24 09:07	10/23/24 17:31	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:07	10/23/24 17:31	1
Boron	0.32	B	0.050	0.013	mg/L		10/22/24 09:07	10/23/24 17:31	1
Cadmium	0.00094		0.00050	0.00017	mg/L		10/22/24 09:07	10/23/24 17:31	1
Calcium	90		0.20	0.044	mg/L		10/22/24 09:07	10/23/24 17:31	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:07	10/23/24 17:31	1
Cobalt	0.0015		0.0010	0.00040	mg/L		10/22/24 09:07	10/23/24 17:31	1
Lead	0.00028	J	0.00050	0.00019	mg/L		10/22/24 09:07	10/23/24 17:31	1
Magnesium	29		0.20	0.049	mg/L		10/22/24 09:07	10/23/24 17:31	1
Molybdenum	0.046		0.0050	0.0025	mg/L		10/22/24 09:07	10/23/24 17:31	1
Potassium	5.8		0.50	0.11	mg/L		10/22/24 09:07	10/23/24 17:31	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:07	10/23/24 17:31	1
Sodium	75		0.20	0.077	mg/L		10/22/24 09:07	10/23/24 17:31	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:07	10/23/24 17:31	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		10/22/24 11:40	10/23/24 10:20	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 16:24	5
Sulfate (EPA 300.0)	68		5.0	1.0	mg/L			10/17/24 16:24	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	290		5.0	3.7	mg/L			10/22/24 17:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 17:58	1
Total Dissolved Solids (SM 2540C)	510		10	4.3	mg/L			10/11/24 03:30	1
Fluoride (SM 4500 F C)	0.25		0.10	0.056	mg/L			10/18/24 16:53	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	21.21				ft			10/09/24 09:00	1
Field pH	7.06				SU			10/09/24 09:00	1
Field Temperature	18.4				Degrees C			10/09/24 09:00	1
Oxidation Reduction Potential	62.7				millivolts			10/09/24 09:00	1
Oxygen, Dissolved	1.39				mg/L			10/09/24 09:00	1
Specific Conductance	797				umhos/cm			10/09/24 09:00	1
Turbidity	9.72				NTU			10/09/24 09:00	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_07

Lab Sample ID: 500-258038-33

Date Collected: 10/10/24 09:20

Matrix: Water

Date Received: 10/10/24 12:46

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_08

Lab Sample ID: 500-258038-34

Date Collected: 10/10/24 09:20

Matrix: Water

Date Received: 10/10/24 12:46

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
HEN-24Q4-2024-005
SDG: HEN_845_802-805

Client Sample ID: HEN_FB

Lab Sample ID: 500-258038-38

Date Collected: 10/10/24 09:00

Matrix: Water

Date Received: 10/10/24 12:46

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		10/22/24 09:18	10/23/24 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		10/22/24 09:09	10/22/24 22:57	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		10/22/24 09:09	10/22/24 22:57	1
Barium	<0.0025		0.0025	0.00073	mg/L		10/22/24 09:09	10/22/24 22:57	1
Beryllium	<0.0010		0.0010	0.00053	mg/L		10/22/24 09:09	10/23/24 12:21	1
Boron	0.023	J B	0.050	0.013	mg/L		10/22/24 09:09	10/23/24 12:21	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		10/22/24 09:09	10/23/24 12:21	1
Calcium	<0.20		0.20	0.044	mg/L		10/22/24 09:09	10/22/24 22:57	1
Chromium	<0.0050		0.0050	0.0011	mg/L		10/22/24 09:09	10/22/24 22:57	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		10/22/24 09:09	10/23/24 12:21	1
Lead	<0.00050		0.00050	0.00019	mg/L		10/22/24 09:09	10/22/24 22:57	1
Magnesium	<0.20		0.20	0.049	mg/L		10/22/24 09:09	10/22/24 22:57	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		10/22/24 09:09	10/22/24 22:57	1
Potassium	<0.50		0.50	0.11	mg/L		10/22/24 09:09	10/22/24 22:57	1
Selenium	<0.0025		0.0025	0.00098	mg/L		10/22/24 09:09	10/22/24 22:57	1
Sodium	<0.20		0.20	0.077	mg/L		10/22/24 09:09	10/22/24 22:57	1
Thallium	<0.0020		0.0020	0.00057	mg/L		10/22/24 09:09	10/23/24 12:21	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		10/22/24 11:40	10/23/24 11:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	0.15	J B	1.0	0.12	mg/L			10/26/24 09:07	1
Sulfate (EPA 300.0)	<1.0		1.0	0.21	mg/L			10/26/24 09:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	3.9	J	5.0	3.7	mg/L			10/22/24 23:21	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			10/22/24 23:21	1
Total Dissolved Solids (SM 2540C)	10		10	4.3	mg/L			10/13/24 22:25	1
Fluoride (SM 4500 F C)	<0.10		0.10	0.056	mg/L			10/24/24 10:46	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
HEN_845_802-805
SDG: HEN_845_802-805

Client Sample ID: HEN_SG02_YSG_ILRIVER

Lab Sample ID: 500-258038-41

Date Collected: 10/07/24 10:25

Matrix: Water

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

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

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
HEN_08_02-005
SDG: HEN_845_802-805

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	
500-258038-9	HEN_18&D	Total/NA	Water	7470A	
500-258038-10	HEN_18#S	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	
500-258038-9	HEN_18&D	Total Recoverable	Water	3005A	
500-258038-10	HEN_18#S	Total Recoverable	Water	3005A	
500-258038-19	HEN_03R	Total Recoverable	Water	3005A	
500-258038-20	HEN_03R_FD	Total Recoverable	Water	3005A	
500-258038-27	HEN_45#S	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
500-258038-33	HEN_07	Total Recoverable	Water	3005A	
500-258038-34	HEN_08	Total Recoverable	Water	3005A	
500-258038-38	HEN_FB	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	
500-258038-9	HEN_18&D	Total Recoverable	Water	200.7	
500-258038-10	HEN_18#S	Total Recoverable	Water	200.7	
500-258038-19	HEN_03R	Total Recoverable	Water	200.7	
500-258038-20	HEN_03R_FD	Total Recoverable	Water	200.7	
500-258038-27	HEN_45#S	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	
500-258038-27 MS	HEN_45#S	Total Recoverable	Water	200.7	
500-258038-27 DU	HEN_45#S	Total Recoverable	Water	200.7	

Prep Batch: 791763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-33	HEN_07	Total Recoverable	Water	200.7	
500-258038-34	HEN_08	Total Recoverable	Water	200.7	
500-258038-38	HEN_FB	Total Recoverable	Water	200.7	
MB 500-791763/1-A	Method Blank	Total Recoverable	Water	200.7	
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
500-258038-19	HEN_03R	Total/NA	Water	7470A	
500-258038-20	HEN_03R_FD	Total/NA	Water	7470A	

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QC Association Summary

845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN_845_802-805

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-9
SDG: HEN_845_802-805

Metals (Continued)

Prep Batch: 791799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-27	HEN_45#S	Total/NA	Water	7470A	
500-258038-33	HEN_07	Total/NA	Water	7470A	
500-258038-34	HEN_08	Total/NA	Water	7470A	
500-258038-38	HEN_FB	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
500-258038-9	HEN_18&D	Total/NA	Water	7470A	791618
500-258038-10	HEN_18#S	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
500-258038-33	HEN_07	Total Recoverable	Water	6020B	791760
500-258038-34	HEN_08	Total Recoverable	Water	6020B	791760
500-258038-38	HEN_FB	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
500-258038-19	HEN_03R	Total/NA	Water	7470A	791799
500-258038-20	HEN_03R_FD	Total/NA	Water	7470A	791799
500-258038-27	HEN_45#S	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
500-258038-38	HEN_FB	Total/NA	Water	7470A	791799
MB 500-791799/12-A	Method Blank	Total/NA	Water	7470A	791799
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
500-258038-9	HEN_18&D	Total Recoverable	Water	200.7 Rev 4.4	791762
500-258038-10	HEN_18#S	Total Recoverable	Water	200.7 Rev 4.4	791762
500-258038-19	HEN_03R	Total Recoverable	Water	200.7 Rev 4.4	791762
500-258038-20	HEN_03R_FD	Total Recoverable	Water	200.7 Rev 4.4	791762
500-258038-27	HEN_45#S	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
500-258038-27 MS	HEN_45#S	Total Recoverable	Water	200.7 Rev 4.4	791762
500-258038-27 DU	HEN_45#S	Total Recoverable	Water	200.7 Rev 4.4	791762

Analysis Batch: 792032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-33	HEN_07	Total Recoverable	Water	6020B	791760

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QC Association Summary

845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
Job ID: 500-258038-9
SDG: HEN_845_802-805

Metals (Continued)

Analysis Batch: 792032 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-34	HEN_08	Total Recoverable	Water	6020B	791760
500-258038-38	HEN_FB	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
500-258038-33	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
500-258038-38	HEN_FB	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
500-258038-9	HEN_18&D	Total Recoverable	Water	6020B	791759
500-258038-10	HEN_18#S	Total Recoverable	Water	6020B	791759
500-258038-19	HEN_03R	Total Recoverable	Water	6020B	791759
500-258038-20	HEN_03R_FD	Total Recoverable	Water	6020B	791759
500-258038-27	HEN_45#S	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

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	
500-258038-9	HEN_18&D	Total/NA	Water	SM 2540C	
500-258038-10	HEN_18#S	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
500-258038-19	HEN_03R	Total/NA	Water	SM 2540C	
500-258038-20	HEN_03R_FD	Total/NA	Water	SM 2540C	
500-258038-27	HEN_45#S	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	
500-258038-9	HEN_18&D	Total/NA	Water	SM 4500 F C	
500-258038-10	HEN_18#S	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	

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

General Chemistry

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	
500-258038-38	HEN_FB	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	
500-258038-9	HEN_18&D	Total/NA	Water	300.0	
500-258038-10	HEN_18#S	Total/NA	Water	300.0	
500-258038-19	HEN_03R	Total/NA	Water	300.0	
500-258038-20	HEN_03R_FD	Total/NA	Water	300.0	
500-258038-27	HEN_45#S	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	
500-258038-27 MS	HEN_45#S	Total/NA	Water	300.0	
500-258038-27 MSD	HEN_45#S	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	
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
500-258038-19	HEN_03R	Total/NA	Water	SM 4500 F C	
500-258038-20	HEN_03R_FD	Total/NA	Water	SM 4500 F C	
500-258038-27	HEN_45#S	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	
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	
500-258038-9	HEN_18&D	Total/NA	Water	SM 2320B	
500-258038-10	HEN_18#S	Total/NA	Water	SM 2320B	
500-258038-19	HEN_03R	Total/NA	Water	SM 2320B	
MB 500-791737/28	Method Blank	Total/NA	Water	SM 2320B	
MB 500-791737/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-791737/29	Lab Control Sample	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	

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QC Association Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

General Chemistry (Continued)

Analysis Batch: 791804 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
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
500-258038-20	HEN_03R_FD	Total/NA	Water	SM 2320B	
500-258038-27	HEN_45#S	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	
500-258038-38	HEN_FB	Total/NA	Water	SM 2320B	
MB 500-791946/28	Method Blank	Total/NA	Water	SM 2320B	
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	

Analysis Batch: 792365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-38	HEN_FB	Total/NA	Water	SM 4500 F C	
MB 500-792365/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-792365/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-258038-10 MS	HEN_18#S	Total/NA	Water	SM 4500 F C	
500-258038-10 MSD	HEN_18#S	Total/NA	Water	SM 4500 F C	

Analysis Batch: 792441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-258038-38	HEN_FB	Total/NA	Water	300.0	
MB 500-792441/3	Method Blank	Total/NA	Water	300.0	
LCS 500-792441/4	Lab Control Sample	Total/NA	Water	300.0	
500-258038-G-27 MS	500-258038-G-27 MS	Dissolved	Water	300.0	
500-258038-G-27 MSD	500-258038-G-27 MSD	Dissolved	Water	300.0	

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	
500-258038-9	HEN_18&D	Total/NA	Water	Field Sampling	
500-258038-10	HEN_18#S	Total/NA	Water	Field Sampling	
500-258038-19	HEN_03R	Total/NA	Water	Field Sampling	
500-258038-20	HEN_03R_FD	Total/NA	Water	Field Sampling	
500-258038-27	HEN_45#S	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	
500-258038-41	HEN_SG02_YSG_ILRIVER	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-9
SDG: HEN_845_802-805

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: 500-258038-27 MS
Matrix: Water
Analysis Batch: 792031

Client Sample ID: HEN_45#S
Prep Type: Total Recoverable
Prep Batch: 791762

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.012		0.250	0.284		mg/L		109	70 - 130

Lab Sample ID: 500-258038-27 DU
Matrix: Water
Analysis Batch: 792031

Client Sample ID: HEN_45#S
Prep Type: Total Recoverable
Prep Batch: 791762

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.012		0.0105		mg/L		15	20

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

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-9
SDG: HEN_845_802-805

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

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
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

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

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-9
SDG: HEN_845_802-805

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

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

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

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-9
SDG: HEN_845_802-805

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

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

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

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
HEN-24Q4-258038-9
SDG: HEN_845_802-805

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-258038-27 MS

Matrix: Water

Analysis Batch: 790938

Client Sample ID: HEN_45#S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	70		50.0	120		mg/L		99	80 - 120
Sulfate	68		50.0	121		mg/L		107	80 - 120

Lab Sample ID: 500-258038-27 MSD

Matrix: Water

Analysis Batch: 790938

Client Sample ID: HEN_45#S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	70		50.0	121		mg/L		102	80 - 120	1	20
Sulfate	68		50.0	122		mg/L		108	80 - 120	0	20

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

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

Lab Sample ID: MB 500-792441/3

Matrix: Water

Analysis Batch: 792441

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.151	J	1.0	0.12	mg/L			10/26/24 07:33	1
Sulfate	<1.0		1.0	0.21	mg/L			10/26/24 07:33	1

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
HEN-24Q4-258038-9
SDG: HEN_845_802-805

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 500-792441/4
Matrix: Water
Analysis Batch: 792441

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	20.7		mg/L		103	90 - 110

Lab Sample ID: 500-258038-G-27 MS
Matrix: Water
Analysis Batch: 792441

Client Sample ID: 500-258038-G-27 MS
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	71	B	50.0	116		mg/L		90	80 - 120
Sulfate	68		50.0	115		mg/L		95	80 - 120

Lab Sample ID: 500-258038-G-27 MSD
Matrix: Water
Analysis Batch: 792441

Client Sample ID: 500-258038-G-27 MSD
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	71	B	50.0	118		mg/L		94	80 - 120	2	20
Sulfate	68		50.0	117		mg/L		100	80 - 120	2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-791737/28
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	4.33	J	5.0	3.7	mg/L			10/21/24 14:50	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			10/21/24 14:50	1

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 500-791737/29
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	96.9		mg/L		97	80 - 120

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

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-9
SDG: HEN_845_802-805

Method: SM 2320B - Alkalinity (Continued)

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 CaCO ₃	<5.0		5.0	3.7	mg/L			10/22/24 17:46	1
Carbonate Alkalinity as CaCO ₃	<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 CaCO ₃	<5.0		5.0	3.7	mg/L			10/22/24 14:05	1
Carbonate Alkalinity as CaCO ₃	<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 CaCO ₃	<5.0		5.0	3.7	mg/L			10/22/24 21:17	1
Carbonate Alkalinity as CaCO ₃	<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

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-9
HEN-24Q4-2905
SDG: HEN_845_802-805

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

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

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

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
HEN-845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-9
HEN-845-802-805
SDG: HEN_845_802-805

Method: SM 4500 F C - Fluoride (Continued)

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

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 Sample ID: MB 500-792365/3
Matrix: Water
Analysis Batch: 792365

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			10/24/24 09:25	1

Lab Sample ID: LCS 500-792365/4
Matrix: Water
Analysis Batch: 792365

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	9.40		mg/L		94	90 - 119

Lab Sample ID: 500-258038-10 MS
Matrix: Water
Analysis Batch: 792365

Client Sample ID: HEN_18#S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.16		5.00	4.86		mg/L		94	75 - 125

Lab Sample ID: 500-258038-10 MSD
Matrix: Water
Analysis Batch: 792365

Client Sample ID: HEN_18#S
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.16		5.00	4.77		mg/L		92	75 - 125	2	20

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-9
SDG: HEN_845_802-805

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_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 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 12:17
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 16:10
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 08:44
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 02:49
Total/NA	Analysis	SM 2320B		1	791737	ER	EET CHI	10/21/24 13:50
Total/NA	Analysis	SM 2540C		1	790105	CLB	EET CHI	10/11/24 01:48
Total/NA	Analysis	SM 4500 F C		1	790148	SO	EET CHI	10/10/24 13:54
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/08/24 12:50

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 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 12:21
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 16:13
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 08:46
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 03:21
Total/NA	Analysis	SM 2320B		1	791737	ER	EET CHI	10/21/24 14:00

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-9
SDG: HEN_845_802-805

Client Sample ID: HEN_18#S

Lab Sample ID: 500-258038-10

Date Collected: 10/08/24 11:50

Matrix: Water

Date Received: 10/09/24 12:00

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 01:51
Total/NA	Analysis	SM 4500 F C		1	790148	SO	EET CHI	10/10/24 13:58
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/08/24 11:50

Client Sample ID: HEN_03R

Lab Sample ID: 500-258038-19

Date Collected: 10/09/24 10:15

Matrix: Water

Date Received: 10/10/24 11:10

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 13:19
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 17:07
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 09:59
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 12:45
Total/NA	Analysis	SM 2320B		1	791737	ER	EET CHI	10/21/24 17:27
Total/NA	Analysis	SM 2540C		1	790108	CLB	EET CHI	10/11/24 03:09
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 16:05
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/09/24 10:15

Client Sample ID: HEN_03R_FD

Lab Sample ID: 500-258038-20

Date Collected: 10/09/24 10:30

Matrix: Water

Date Received: 10/10/24 11:10

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 13:24
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 17:10
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 10:01
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 13:16
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 16:29
Total/NA	Analysis	SM 2540C		1	790108	CLB	EET CHI	10/11/24 03:12
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 16:10
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/09/24 10:30

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
HEN-24Q4-258038-9
SDG: HEN_845_802-805

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 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 14:04
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 17:31
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 10:20
Total/NA	Analysis	300.0		5	790938	MM	EET CHI	10/17/24 16:24
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 17:58
Total/NA	Analysis	SM 2540C		1	790108	CLB	EET CHI	10/11/24 03:30
Total/NA	Analysis	SM 4500 F C		1	791579	SO	EET CHI	10/18/24 16:53
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/09/24 09:00

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

Eurofins Chicago

Lab Chronicle

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-9
SDG: HEN_845_802-805

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	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
Total/NA	Analysis	Field Sampling		1	791677	DN	EET CHI	10/10/24 09:20

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 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 13:32
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 22:57
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 12:21
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 11:03
Total/NA	Analysis	300.0		1	792441	MM	EET CHI	10/26/24 09:07
Total/NA	Analysis	SM 2320B		1	791946	ER	EET CHI	10/22/24 23:21
Total/NA	Analysis	SM 2540C		1	790410	CLB	EET CHI	10/13/24 22:25
Total/NA	Analysis	SM 4500 F C		1	792365	ER	EET CHI	10/24/24 10:46

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

ATTACHMENT B.
Q4 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-9
SDG: HEN_845_802-805

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

11/01/24

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 Hennepin, IL 61327	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:	Jason Stuckey & Michael Oille	Address:	see Section A
Phone:	(217) 753-8911	Project Name:	Jason.Stuckey@vistracorp.com	Quote Reference:	
Fax:		Requested Due Date/TAT:	10 day	Project Manager:	
		Project Number:	50023030	Profile #:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER WASTE WATER WASTE WATER PRODUCT SOLIDS OIL WIPE AIR OTHER TISSUE 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		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Y	N	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	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)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	dbn 103	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Sam Davies	10/17/24	0700		Sam Davies	10/18/24	0917	
SAMPLER NAME AND SIGNATURE		DATE SIGNED (MM/DD/YY)						
PRINT Name of SAMPLER		SIGNATURE of SAMPLER						

Sample date and default time added - dbn 102824

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Page 1 of 3



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

5	
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11/01/24

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Page 2 of 3

[illegible]

Sample dates added - dbn 102824

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Page 3 of 3

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N Analysis Test ↓	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		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			
1	HEN 52													X	X								G								
2	HEN 54													X	X							G									
3	HEN 54_FD													X	X							G									
4	HEN 55														X							I		DTW ONLY							
5	HEN_SG02_YSG_IL_River														X	X	X	X	X	X	X	I		DTW ONLY							
6	HEN_XSG01														X							I		DTW ONLY							
7	HEN FB													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																															
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																					
HEN-24Q4 Rev 0		<i>Lorne Silvers</i>		10/8/24	1500	<i>P.J. Elkin</i>		10/9/24	0908																						
		<i>M.L. Elkin</i>		10/9/24	1200	<i>L.H. Scott</i>		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 <i>Lorne Filawicz</i>					
SIGNATURE of SAMPLER <i>Lorne Filawicz</i>	DATE Signed (MM/DD/YY) <i>10-8-24</i>				

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Page 1 of 3



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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		Page 2 of 3	
Company: <u>Visira Corp-Hennepin</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Brian Voelker</u>		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location STATE IL	
Address: <u>13498 E 800th St</u>		Copy To: <u>Sam Davies samantha.davies@visiracorp.com</u>		Company Name: <u>Visira Corp</u>			
<u>Hennepin, IL 61327</u>		<u>Jason Stuckey & Michael Olle</u>		Address: <u>see Section A</u>			
Email To: <u>Brian.Voelker@VisiraCorp.com</u>		Purchase Order No. <u>michael.olle@visiracorp.com</u>		Quote Reference			
Phone: <u>(217) 753-8911</u> Fax:		Project Name: <u>Jason.Stuckey@visiracorp.com</u>		Project Manager:			
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>50023030</u>		Profile #:			

ITEM #	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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page 3 of 3	
Company: <u>Vistra Corp-Hennepin</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Brian Voelker</u>		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: <u>IL</u> STATE: <u>IL</u>	
Address: <u>13498 E 800th St</u>		Copy To: <u>Sam Davies samantha.davies@visstracorp.com</u>		Company Name: <u>Vistra Corp</u>			
<u>Hennepin, IL 61327</u>		<u>Jason Stuckey & Michael Oile</u>		Address: <u>see Section A</u>			
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No. <u>michael.oile@visstracorp.com</u>		Quote Reference:			
Phone: <u>(217) 753-8911</u> Fax:		Project Name: <u>Jason.Stuckey@visstracorp.com</u>		Project Manager:			
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>50023030</u>		Profile #:			

ITEM #	Section D Required Client Information Valid Matrix Codes MATRIX CODE DRINKING WATER OW 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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Project No./ Lab I.D.
				DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		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			
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	I			DTW ONLY			
6	HEN_XSG01																X			X				I			DTW ONLY			
7	HEN_FB															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		<i>Donna Filawicz</i>		10/02/24	0800	<i>Stefanie Hemondy</i>		10/10/24	0900																					
		<i>Stefanie Hemondy</i>		10/10/24	1110	<i>Stefanie Hemondy</i>		10/10/24	1110																					
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)																	
PRINT Name of SAMPLER																														
SIGNATURE of SAMPLER: <i>Donna Filawicz</i> DATE Signed (MM/DD/YY) 10-10-24																														

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-258038-9
SDG Number: HEN_845_802-805

Login Number: 258038

List Number: 1

Creator: Hernandez, Stephanie

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.(33-38 sampled 10/10)
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 $<6\text{mm}$ (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	DTB 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 DTB	
06	HEN_06	10/7	1048	23.44	33.27	
10	HEN_10	10/7	1204	Dry	51.49 DTB	
11	HEN_11	10/7	1206	61.94	69.55 DTB	
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	DTB 45.47	
25	HEN_25	10/7	0825	16.65	17.88	
26	HEN_26	10/7	0820	16.84	27.32	
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	DTB 42.91	
45S	HEN_45#S	10/7	1503 4114	21.20	DTB 38.62	
48R	HEN_48R	10/7	1115	41.72	57.15	
53	HEN_53	10/7	1215	56.52	DTB 66.68	
SG02	HEN_YSG_ILRIVER	10/7	1025	No water	at reading point	
XPW01	HEN_XPW01_pore	10/7	1220	12.24	DTB 14.68	
XPW02	HEN_XPW02_pore	10/7	1225	17.42	DTB 21.75	
XPW03	HEN_XPW03_pore	10/7	1159	7.72	DTB 21.95	

No dead pipes

Elevation = 441.0 ft
dbn 102824

C: 9/12/24 JRK

O = Combined count.

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 Match?	WL Reading on Transducer (ft)	Data download	Batt CH/M/L/R	Comments	Initials
03R	HEN_03R	10/7	1052	36.01	21615140	YES	446.2183	YES	High	ANT Ned	
07	HEN_07	10/7	1326	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	10/7	1051	122.55.12	21921673	YES	446.352	YES	High	Dr	
12	HEN_12	10/7	1151	Dr	21615520	YES	446.4333	YES	High		
13	HEN_13	10/7	1153	52.22	21615515	YES	442.1015	YES	High		
16	HEN_16	10/7	1239	55.28	21615534	YES	446.2722	YES	High		
17	HEN_17	10/7	1130	56.83	21615500	YES	445.3572	YES	High	Battery replaced	
18D	HEN_18&D	10/7	1051	41.99	21615609	YES	440.4641	YES	High		
18S	HEN_18WS	10/7	1059	41.63	21615482	YES	445.472	YES	High		
21R	HEN_21R	10/7	0944	60.72	21615613	YES	445.52	YES	High		
22	HEN_22	10/7	1017	19.13	21615497	YES	445.7222	YES	High		
22D	HEN_22&D	10/7	1014	20.04	21564134	YES	446.972	YES	Med		
23	HEN_23	10/7	1026	17.62	21615600	YES	446.1040	YES	Med	Battery replaced	
27	HEN_27	10/7	1442	4.82	21615576	YES		YES	High		
32	HEN_32	10/7	1006	17.62	21615487	YES		YES	Med		
34	HEN_34	10/7	1027	30.20	No transducer						
35	HEN_35	10/7	0827	9.03	21615510	YES	446.1247	YES	High		
46	HEN_46	10/7	1141	52.72	21615491	YES	446.2207	YES	High		
47	HEN_47	10/7	1202	56.71	21615505	YES	446.344	YES	High		
49	HEN_49	10/7	1011	22.35	21629307	YES	446.0156	YES	High		
50	HEN_50	10/7	1021	18.99	21615489	YES		YES	High	Battery replaced	
51	HEN_51	10/7	1001	19.45	21615608	YES	445.5178	YES	High		
52	HEN_52	10/7	1212	54.37	21615145	YES	446.4634	YES	High		
54	HEN_54	10/7	1205	54.14	21615143	YES	446.2062	YES	High		
55	HEN_55	10/7	1157	52.32	21615612	YES	446.1015	YES	High		
5G03	HEN_5SG03	10/7		27.9	21768088	YES	456.397	YES	Med	No water	
XSG01	HEN_XSG01	10/7		105.5	21768087	YES	482.9980	YES	Med	Batt. replaced	
RG01	HEN_RG01	10/7	1132		21628684						

C: 9/12/24 JRK

Hem 10
1555

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>		Client: <u>Visira</u>										
Project Number: <u>0054</u>		Task #: _____		Start Date: <u>10/7/2024</u>		Time: <u>1545</u>						
Field Personnel: <u>Corne</u>		Finish Date: <u>Same</u>		Time: <u>1615</u>								
WELL INFORMATION				EVENT TYPE								
Well ID: <u>02</u>		Well Development		Low-Flow / Low Stress Sampling Other								
Casing ID: <u>2</u>		Well Volume Approach Sampling		(Specify): Low Flow								
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	pH (SU) +/- 0.1	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10% or +/- 0.2	Turbidity (NTU) 10% or <10 NTU's	ORP (mV) +/- 10mV	Visual Clarity
Pre	0	<u>1545</u>		<u>44.82</u>								
Purge	5	<u>1555</u>		<u>44.89</u>		<u>13.1</u>	<u>6.93</u>	<u>716</u>	<u>7.54</u>	<u>41.92</u>	<u>118.0</u>	
	10	<u>1600</u>		<u>44.92</u>		<u>13.0</u>	<u>6.93</u>	<u>715</u>	<u>7.39</u>	<u>42.01</u>	<u>119.0</u>	
	15	<u>1605</u>		<u>44.92</u>		<u>12.9</u>	<u>6.93</u>	<u>713</u>	<u>7.38</u>	<u>43.09</u>	<u>120.6</u>	
*****	20	<u>1610</u>		<u>44.94</u>		<u>12.8</u>	<u>6.92</u>	<u>710</u>	<u>7.37</u>	<u>42.90</u>	<u>122.8</u>	
	25	<u>1615</u>	<u>46.0</u>	<u>44.95</u>				<u>708</u>	<u>7.37</u>	<u>42.02</u>	<u>125.0</u>	
	30											
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: <u>02</u> Sampled @ <u>1615</u> on <u>10/7/24</u>										ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units		
										Temp - Temperature		
										°C - Degrees Celsius		

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra		Task #: 0935		Start Date: 10/19/2024		Time: 1015		Finish Date: Same		
Project Number: 0054		Field Personnel: Larne		Task #:		Start Date: 10/19/2024		Time: 1015		Finish Date: Same		
WELL INFORMATION				EVENT TYPE				Low-Flow / Low Stress Sampling Other (Specify): Low Flow				
Well ID: 052		Casing ID: 2		Well Development Well Volume Approach Sampling		Well Volume Approach Sampling		YSI SERIAL NO: 24A 1012260		Heron Serial NO: 12DF 245316348		
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								
Purge	5	0940		35.95		17.8	7.15	732	2.66	29.05	84.9	Clear
	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	7.21	81.9	
	35	1015	464	35.95		17.8	7.11	730	1.45	7.01	80.7	V
	40											
	45											
	50											
	55											
	60											
NOTES (continued)												
Sample ID: 052												
Sampled @ 1015 on 10/19/24												
Dupe @ 1030												
ABBREVIATIONS												
COND - Actual Conductivity SEC - Specific Conductance SU - Standard Units Temp - Temperature nm - Not Measured °C - Degrees Celsius												

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>		Client: <u>Vistra</u>										
Project Number: <u>6054</u>		Task #: <u>0955</u>		Start Date: <u>10/8/2024</u> Time: <u>0955</u>								
Field Personnel: <u>Lorne</u>		Finish Date: <u>Same</u>		Time: <u></u>								
WELL INFORMATION				EVENT TYPE								
Well ID: <u>OSR</u>		Well Development		Low-Flow / Low Stress Sampling Other								
Casing ID: <u>2</u>		Well Volume Approach Sampling		Heron Serial NO: <u>24A1501216</u>								
				Heron Serial NO: <u>2DF 2403163 HB</u>								
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	7.29	727	1.79	5.98	16.9	
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: <u>OSR</u>												
Sampled @ <u>1030</u> on <u>10/18/24</u>												
Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured Temp - Temperature °C - Degrees Celsius												

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin Client: Visira Task #: 05D Start Date: 10/8/2024 Time: 0900
Field Personnel: Lorne Finish Date: Same Time: 0930

WELL INFORMATION

Well ID: 05D Well Development Well Volume Approach Sampling Low-Flow / Low Stress Sampling Other YSI SERIAL NO: 24A101226
Casing ID: 2 (Inches) Heron Serial NO: 12DF2403163 HB

EVENT TYPE

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								
Purge	5	0910		42.19		17.0	7.57	738	1.73	63.91	93.0	clear
	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	36AL	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 no -
Not Applicable
nm - Not Measured
ORP - Oxidation-Reduction Potential SEC
Specific Electrical Conductance SU - Standard
Units
Temp - Temperature
°C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra		Task #: 0054		Start Date: 10/10/2024		Time: 0845				
Field Personnel: G. Arany		Finish Date: 10/10/2024		Time: 0940								
WELL INFORMATION				EVENT TYPE				YSI SERIAL NO:				
Well ID: 1		Inches		Well Development		Well Volume Approach Sampling		Low-Flow / Low Stress Sampling Other		Heron Serial NO:		
Casing ID:												
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	12av
	10	0900	1	69.02	—	11.4	6.79	1150	5.74	5.78	108.6	↓
	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	5.70	112.7	↓
Sande	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												
Hen-7 10/10/2024 @ 0920												
ABBREVIATIONS												
Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable Temp - Temperature mm - Not Measured °C - Degree Celsius ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units												

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>	Client: <u>Vistra</u>	Task #: <u>0054</u>	Start Date: <u>10/10/2024</u>	Time: <u>0855</u>								
Field Personnel: <u>Same</u>	Finish Date: <u>Same</u>	Time: <u>0920</u>										
WELL INFORMATION			EVENT TYPE									
Well ID: <u>08</u>	Well Development	Well Volume Approach Sampling	Low-Flow / Low Stress Sampling Other (Specify): Low Flow									
Casing ID: <u>2</u>			YSI SERIAL NO: <u>24101226</u> Heron Serial NO: <u>120P 2403163HB</u>									
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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								
Purge	5	0900				13.8	6.51	1514	2.30	7.10	143.2	Clear
	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	36.41	54.52		13.7	6.47	1549	1.89	9.91	145.6	
	30											
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: <u>08</u>										Cond - Actual Conductivity		
Sampled @ <u>0920</u> on <u>10/10/24</u>										FT BTCC - Feet Below Top of Casing na -		
										Units		
										Temp - Temperature		
										°C - Degrees Celsius		



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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vista										
Project Number: 6054		Task #: 1018		Start Date: 10/8/2024		Time: 0750						
Field Personnel: LORAL		Finish Date: Same		Time: 0815								
WELL INFORMATION				EVENT TYPE								
Well ID: 0812		Well Development		Low-Flow / Low Stress Sampling Other								
Casing ID: 2"		Well Volume Approach Sampling		YSI SERIAL NO: 24A101226 Heron Serial NO: 125F24031634B								
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)										ABBREVIATIONS		
Sample ID: 0812										Cond. - Actual Conductivity		
Sampled @ 0815 on 10/18/24										FT BTOC - Feet Below Top of Casing na		
										Not Applicable		
										Units		
										Temp. - Temperature		
										nm - Not Measured		
										°C - Degrees Celsius		

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin	Client: Visra	Task #: 7/7/2024	Time: 1530									
Project Number: 6. A3000	Start Date: 7/7/2024	Finish Date: 10 dbn 102824	Time: 1530									
Field Personnel: 6. A3000	Finish Date: 10 dbn 102824	Time: 1530										
WELL INFORMATION				EVENT TYPE								
Well ID: 10	Inches	Well Development	Well Volume Approach Sampling	Low-Flow / Low Stress Sampling Other (Specify): Low Flow	YSI SERIAL NO: 401474X	Heron Serial NO:						
Casing ID:												
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	28.07	94.8	Clear
↓	10	1540	1			20.0	6.88	1004	1.00	3.95	73.1	Clear
*****	15	1545	1.5			20.1	6.88	1004	1.02	3.38	70.0	Clear
*****	20	1550	2.5			25.0	6.87	1004	0.91	2.86	63.6	Clear
Sample	25	1555	3									
	30											
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: on 7/7/2024	10 dbn 102824	DTD: 52.27								Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na* Not Applicable nm - Not Measured		
Sampled @										ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp. - Temperature °C - Degrees Celsius		

②1555
ID: Hen-10
Water meter Above pump (no recording)

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin	Client: Vistra	Task #: 10/18/2024	Time: 0830									
Project Number: 0. Aerial	Start Date: 10/18/2024	Finish Date: 10/18/24	Time: 0830									
Field Personnel: 0. Aerial	Finish Date: 10/18/24	Time: 0830										
WELL INFORMATION				EVENT TYPE								
Well ID: 12	Inches	Well Development		Low-Flow / Low Stress Sampling Other								
Casing ID:		Well Volume Approach Sampling		YSI SERIAL NO: 4101474 Heron Serial NO: 4101474								
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 data	—	—	—	—	—	—	—	—
Purge	5	0835	—	—	—	17.3	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	864	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	876	1.57	2.09	56.4	—
*****	35	0905	3.5	—	—	19.4	7.24	870	1.54	2.08	55.8	—
*****	40	0910	4	—	—	19.4	7.24	871	1.74	2.79	58.3	—
Sample	45	0915	4.5	—	—	—	—	—	—	—	—	—
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: 12 on 10/18/2024										ORP - Oxidation-Reduction Potential SEC - FT BTCC - Feet Below Top of Casing ne - Units Temp - Temperature °C - Degrees Celsius		
Sampled @												
Water not detectable at bottom												
52 ft												

0915
10/18/24
Hen-12

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra		Start Date: 10/8/2024		Time: 0740						
Project Number: 13		Task #: 6000		Finish Date: 10/8/24		Time: 0828						
Field Personnel: Gavin Arndt												
WELL INFORMATION				EVENT TYPE								
Well ID: 13		Inches		Well Development Well Volume Approach Sampling		Low-Flow / Low Stress Sampling Other (Specify): Low Flow		YSI SERIAL NO: 4101474 Heron Serial NO: 0820164				
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	6120
↓	10	0755	1	52.21	—	19.3	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	7.31	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	—	19.4	7.30	865	1.37	3.06	57.4	—
Sample	35	0820	—	—	—	—	—	—	—	—	—	—
Sample	40	0828	—	—	—	—	—	—	—	—	—	—
	45											
	50											
	55											
	60											
NOTES (continued)												
Sample ID: Hen-13 on 10/8/2024												
Sampled @												
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												

Hen-13
0820

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra		Time: 1440								
Project Number: 0054		Task #: 10		Start Date: 10/19/2024		Time: 1505						
Field Personnel: Larve		Finish Date: 10/19/2024		Time: 1505								
WELL INFORMATION				EVENT TYPE								
Well ID: 16		Inches		Well Development		Low-Flow / Low Stress Sampling Other						
Casing ID: 2				Well Volume Approach Sampling		(Specify): Low Flow						
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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								
Purge	5	1445		55.15		24.4	7.00	732	2.42	6.37	137.1	Clear
	10	1450		55.15		21.5	6.99	735	2.18	5.63	134.6	
	15	1455		55.15		21.4	6.99	736	2.2	5.31	132.4	
*****	20	1500		55.15		21.5	6.99	735	2.07	5.40	132.0	
	25	1505	3.64	55.15		21.4	6.99	736	2.06	5.24	130.9	
	30											
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: 16										Cond - Actual Conductivity		
Sampled @ 1505/10/19/2024										FT BTOC - Feet Below Top of Casing na -		
										Not Applicable		
										Temp - Temperature		
										°C - Degrees Celsius		

Dupe (AT) 1520



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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vista										
Project Number: 0054		Task #: Same		Start Date: 10/9/2024		Time: 1335						
Field Personnel: Leral		Finish Date: Same		Time: 1410								
WELL INFORMATION				EVENT TYPE								
Well ID: 17		Inches		Well Development				Low-Flow / Low Stress Sampling Other				
Casing ID: 2				Well Volume Approach Sampling				YSI SERIAL NO: 249101226				
								Heron Serial NO: 1202 240316363				
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		22.6	7.03	761	5.05	43.77	134.0	Clear
Purge	5	1345		56.30		22.5	7.04	762	5.02	55.97	133.9	
	10	1350		56.30		22.6	7.04	762	4.96	93.38	133.9	
	15	1355		56.30		22.6	7.04	762	4.93	95.01	134.0	
*****	20	1400		56.30		22.6	7.04	762	4.97	94.91	134.4	
	25	1405		56.30		22.6	7.04	762	4.98	92.96	134.7	
	30	1410	3 GAL	56.30		22.6	7.04					
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)												
Sample ID: 17												
Sampled @ 1410 on 10/9/24												
ABBREVIATIONS												
Cond. - Actual Conductivity FT BT0C - 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 - Degree Celsius												

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>	Client: <u>Vistra</u>	Start Date: <u>10/8/2024</u>	Time: <u>1220</u>									
Project Number: <u>0054</u>	Task #: _____	Finish Date: <u>Same</u>	Time: <u>1250</u>									
Field Personnel: <u>Lozne</u>												
WELL INFORMATION				EVENT TYPE								
Well ID: <u>18D</u>	Well Development			Low-Flow / Low Stress Sampling Other								
Casing ID: <u>2</u>	Well Volume Approach Sampling			YSI SERIAL NO <u>244</u> (001226)								
				Heron Serial NO: <u>1252403163143</u>								
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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		18.2	7.07	782	1.62	17.00	69.0	Clear
Purge	5	1225		41.85		18.1	7.07	782	1.73	18.82	71.2	
	10	1230		41.90		18.1	7.07	783	1.63	25.62	71.6	
	15	1235		41.90		18.1	7.06	784	1.54	24.22	71.4	
*****	20	1240		41.92		18.2	7.06	782	1.48	21.37	71.0	
	25	1245		41.95		18.1	7.06	781	1.47	22.20	70.2	✓
	30	1250		41.95								
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: <u>18D</u>										Cond. - Actual Conductivity		
Sampled @ <u>1250 on 10/8/24</u>										FT BTOC - Feet Below Top of Casing na -		
										Not Applicable		
										Units		
										Temp - Temperature		
										°C - Degrees Celsius		

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>	Client: <u>Vistra</u>											
Project Number: <u>0054</u>	Task #: _____	Start Date: <u>10/8/2024</u>	Time: <u>1120</u>									
Field Personnel: <u>Corne</u>	Finish Date: <u>Same</u>	Time: <u>1150</u>										
WELL INFORMATION			EVENT TYPE									
Well ID: <u>180</u>	Well Development	Low-Flow / Low Stress Sampling Other										
Casing ID: <u>2</u>	Well Volume Approach Sampling	(Specify): Low Flow										
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	3.564	41.59		18.4	7.31	769	1.11	7.22	83.9	
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: <u>185</u>												
Sampled @ <u>1150</u> on <u>10/8/24</u>												
Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable Temp - Temperature nm - Not Measured °C - Degrees Celsius												

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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: S. Arzallay		Finish Date: 10/8/2024		Time: 1625								
WELL INFORMATION				EVENT TYPE								
Well ID: 24				Inches				Well Development				
Casing ID:				Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): Low Flow				
YSI SERIAL NO: 4101244X												
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	7.32	1203	2.81	40.32	-133.4	2100
	10	1540	1	6.73	—	14.6	7.38	1200	2.63	43.34	-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	6.73	—	14.3	7.41	1203	1.26	36.92	-161.7	
Sample	30	1600										
	35	1605										
	40	1610										
Final	45	1620	4	6.43								
	50											
	55											
	60											
NOTES (continued)												
Sample ID: 21RMS 21R, 21RMS, 21RMSD												
Sampled @ 1600, 1605, 1610 on 10/8/2024												
ABBREVIATIONS												
Cond. - Actual Conductivity FT BTQC - 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												

21R
1600
10/8

21RMS
1605
10/8

21RMSD
1610
10/8

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra		Start Date: 10/9/2024		Time: 1400						
Project Number: 0054		Task #: 0. Assessment		Finish Date: 10/9/24		Time: 1435						
Field Personnel: C. Assa												
WELL INFORMATION				EVENT TYPE								
Well ID: 22		Inches		Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): Low Flow				
Casing ID:		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	0222	140	19.11	—	—	—	—	—	—	—	—
Purge	5	0225	140.5	19.29	—	16.3	7.53	1087	3.17	9.66	-62.7	clear
	10	0230	140	19.14	—	15.9	7.55	1082	0.48	7.85	-65.6	↓
	15	0235	140.5	19.10	—	15.7	7.56	1082	0.41	3.86	-61.9	↑
****	20	0240	142.6	19.20	—	15.9	7.56	1082	0.50	6.74	-58.1	↑
Sample	25	0245	142.5	—	—	—	—	—	—	—	—	—
Final	30	0250	140	19.10	—	—	—	—	—	—	—	—
	35	—	—	—	—	—	—	—	—	—	—	—
	40	—	—	—	—	—	—	—	—	—	—	—
	45	—	—	—	—	—	—	—	—	—	—	—
	50	—	—	—	—	—	—	—	—	—	—	—
	55	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—
NOTES (continued)												
Sample ID: 22												
Sampled @ 1425 on 10/9/24												
10/9/24												
Hen-22												
⑨ 1425												
ABBREVIATIONS												
Cond - Actual Conductivity FT BTCC - 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												

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>		Client: <u>Vistra</u>										
Project Number: _____		Task #: _____		Start Date: <u>10/19/2024</u>		Time: <u>1315</u>						
Field Personnel: <u>C. Aschberg</u>		Finish Date: <u>10/19/24</u>		Time: <u>1400</u>								
EVENT TYPE												
Well ID: <u>2280</u>		Inches		Well Development		Low-Flow / Low Stress Sampling Other		YSI SERIAL NO:				
Casing ID: _____				Well Volume Approach Sampling		(Specify): Low Flow		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	—	16.9	7.24	1173	2.39	13.10	-108.4	1200
Purge	5	1325	0.5	19.99	—	16.3	7.24	1182	0.77	9.97	-120.4	1
	10	1330	1	20.11	—	16.2	7.24	1180	0.65	5.65	-130.9	1
	15	1335	2	20.00	—	16.1	7.24	1177	0.62	6.10	-130.9	1
*****	20	1340	2.5	20.03	—	16.1	7.24	1174	0.53	6.94	-131.1	1
↓	25	1345	3	20.09	—	16.1	7.24	1174	0.53	6.94	-131.1	1
Sand	30	1350	3.5	20.09	—	16.1	7.24	1174	0.53	6.94	-131.1	1
Bind	35	1400	3.5	19.98	—	16.1	7.24	1174	0.53	6.94	-131.1	1
	40											
	45											
	50											
	55											
	60											
NOTES (continued)												
Sample ID: <u>2280</u>												
Sampled @ <u>1350</u> on <u>10/19/24</u>												
ABBREVIATIONS												
Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured Temp - Temperature °C - Degrees Celsius												

2280
10/19/24
② 1350

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vista		Task #: 0930		Start Date: 10/9/24		Time: 1020		YSI SERIAL NO: 41101474X Heron Serial NO:		
Project Number: 0053		Finish Date: 10/9/24		Time: 1020		Well Development Well Volume Approach Sampling		Low-Flow / Low Stress Sampling Other (Specify): Low Flow				
Field Personnel: G. Asanig		Inches		EVENT TYPE								
WELL INFORMATION		Well ID: 2-3		Casing ID:								
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	17.40	—	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	—	14.8	7.04	1339	4.33	2.44	30.7	↓
	30	1000	3	17.64	—	13.2	7.37	1374	0.17	6.55	-21.9	↓
	35	1005	3.5	17.85	—	13.2	7.39	1372	0.12	7.44	-31.3	↓
↓	40	1010	4	17.92	—	13.2	7.39	1374	0.06	8.27	-29.7	↓
Sand	45	1015	5	17.45	—	—	—	—	—	—	—	—
Finish	50	1020	5	17.45	—	—	—	—	—	—	—	—
	55											
	60											
NOTES (continued)												
Sample ID: 2-3												
Sampled @ 1015 on 10/9/24												
ABBREVIATIONS												
Cond - Actual Conductivity FT BTCC - 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												

Hen-23
10/9/24
@ 1015



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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra										
Project Number:		Task #: 10 / 3 / 2024		Time: 1120								
Field Personnel: G. Assalery		Finish Date: 10/13/24		Time:								
WELL INFORMATION				EVENT TYPE								
Well ID: 27		Inches		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	0.53	34.53	-79.8	—
*****	20	1145	2.5	4.72	—	12.6	7.14	1178	0.48	35.53	-71.9	—
	25	1150	3.5	4.74	—	12.4	7.15	1178	0.54	33.74	-73.3	↓
Sample final	30	1155	—	4.72	—	—	—	—	—	—	—	—
	35	1205	—	4.68	—	—	—	—	—	—	—	—
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: Hen-27										Cond. - Actual Conductivity		
Sampled @ 1155 on 10/13/24										FT BTOC - Feet Below Top of Casing na -		
										Units		
										Temp - Temperature		
										nm - Not Measured		
										°C - Degrees Celsius		

Hen-27
@1155

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vista										
Project Number:		Task #:		Start Date: 10/8/2024		Time: 1030						
Field Personnel: G. Asbury		Finish Date: 10/8/2024		Time:								
WELL INFORMATION				EVENT TYPE								
Well ID: 32		Inches		Well Development				Low-Flow / Low Stress Sampling Other				
Casing ID:				Well Volume Approach Sampling				YSI SERIAL NO: 6101474X 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	297.7	CLAR
	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	5.40		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	0.84	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: Good - Actual Conductivity FT BTOC - Feet Below Top of Casing Not Applicable nm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius												

Hen-32
@ 1105

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin Client: Vista												
Project Number: 120410054 Task #: Start Date: 10/18/2024 Time: 1310												
Field Personnel: G. Anderson Finish Date: 10/18/2024 Time: 1400												
WELL INFORMATION				EVENT TYPE								
Well ID: 34				Well Development				Low-Flow / Low Stress Sampling Other				
Casing ID:				Well Volume Approach Sampling				YSI SERIAL NO: Heron Serial NO:				
Inches												
WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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	---	8.97	---	---	---	---	---	---	---	---
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	9.98	-124.0	
	15	1330	1.25	9.23	---	12.6	6.98	1395	0.32	6.26	-130.1	
***	20	1335	2	9.32	---	12.6	6.98	1401	0.26	5.79	-132.7	
↓	25	1340	3	9.35	---	12.4	6.98	1407	0.24	4.91	-134.0	↓
Sampled	30	1345	---	9.14	---	---	---	---	---	---	---	---
Penal	35	1350	---	9.01	---	---	---	---	---	---	---	---
	40											
	45											
	50											
	55											
	60											
NOTES (continued)												
Sample ID: 34												
Sampled @ 1345 on 10/18/2024												
ABBREVIATIONS												
Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing m - Units nm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius												

Hen - 34
Ⓢ 1345



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION Site: <u>Hennepin</u> Client: <u>Vistra</u> Project Number: <u>2024-054</u> Task #: <u>1405</u> Field Personnel: <u>G. Aschling</u> Finish Date: <u>10/8/24</u> Time: <u>1405</u>	
WELL INFORMATION Well ID: <u>B3</u> Inches Casing ID: _____	
EVENT TYPE Low-Flow / Low Stress Sampling Other _____ (Specify): Low Flow	
YSI SERIAL NO: <u>U10144X</u> 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	0.38	3.04	41.7	Clear
↓	15	1425	1.5	8.94	—	17.0	6.88	2047	0.34	2.84	41.7	↓
*****	20	1430	2.5	8.97	—	17.0	6.89	2093	0.40	3.82	42.1	↓
Sand	25	1435	—	—	—	—	—	—	—	—	—	—
Sand	30	1440	—	—	—	—	—	—	—	—	—	—
Final	35	1450	—	8.89	—	—	—	—	—	—	—	—
	40											
	45											
	50											
	55											
	60											

NOTES (continued) Sample ID: <u>Hen-35</u> on <u>10/8/24</u> Sampled @ <u>1405</u>		ABBREVIATIONS Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na Not Applicable nm - Not Measured °C - Degrees Celsius
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Field Duplicate
 Hen - 35
 @ 1435
 10/8/24
 Hen - 35 FD
 @ 1440
 10/8/24

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin	Client: Vista	Task #: 0054	Start Date: 10/8/2024	Time: 1400								
Field Personnel: Corne	Finish Date: Same	Time: 1430										
WELL INFORMATION			EVENT TYPE									
Well ID: 405	Well Development	Well Volume Approach Sampling	Low-Flow / Low Stress Sampling Other (Specify): Low Flow									
Casing ID: 2	Inches	YSI SERIAL NO: 2481057226 Heron Serial NO: 12072453167148										
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	628	1.63	8.89	108.6	
*****	20	1420		41.40		18.2	7.73	671	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	6.25	103.5	
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: 405										ORP - Oxidation-Reduction Potential SEC -		
Sampled @ 1430 on 10/8/24										FT BTOC - Feet Below Top of Casing na -		
										Units		
										Temp - Temperature		
										°C - Degrees Celsius		

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Hennepin	Client: Vistra
Project Number: 6054	Task #: 0825
Field Personnel: Larry	Finish Date: 10/19/2024
Time: 8:00	Time: 8:00

WELL INFORMATION

Well ID: 45#5	Well Development
Casing ID: 2	Well Volume Approach Sampling
	Low-Flow / Low Stress Sampling Other
	(Specify): Low Flow
	YSI SERIAL NO: 24A101224
	Heron Serial NO: 12RF2403163HB

EVENT TYPE

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	0825		21.21		17.9	7.09	800	1.64	32.69	46.2	Clear
Purge	5	0830		21.21		18.0	7.07	791	1.71	19.64	48.9	
	10	0835		21.21		18.4	7.07	797	1.46	15.12	54.2	
*****	15	0840		21.21		18.3	7.06	797	1.44	12.20	58.6	
	20	0845		21.21		18.4	7.06	797	1.42	10.10	60.6	
	25	0850		21.21		18.4	7.06	797	1.39	9.72	62.7	
	30	0855		21.21								
	35	0900	3.56	21.21								
	40											
	45											
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	55											
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NOTES (continued)

Sample ID: 45#5	ABBREVIATIONS
Sampled @ 0900 Don 10/19/24	Cond - Actual Conductivity FT BTCC - Feet Below Top of Casing na - Not Applicable nm - Not Measured °C - Degrees Celsius

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

708 534 5200

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra		Start Date: 10/9/2024		Time: 1110						
Project Number: 0654		Task #:		Finish Date:		Time: 1130						
Field Personnel: Lorne												
WELL INFORMATION				EVENT TYPE								
Well ID: H2		Inches		Well Development		Well Volume Approach Sampling		Low-Flow / Low Stress Sampling Other (Specify): Low Flow		YSI SERIAL NO: 240101226		
Casing ID:										Heron Serial NO: 240316348		
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								
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	1.38	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	2.564	52.27		21.2	7.16	709	1.28	7.28	99.9	
	30											
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)												
Sample ID: 46												
Sampled @ 1130 on 10/9/2024												
ABBREVIATIONS												
Cond - Actual Conductivity FT BTCC - Feet Below Top of Casing na - Not Applicable nm - Not Measured												
ORP - Oxidation Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius												

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin	Client: Vista	Task #: 0034	Start Date: 10/19/2024	Time: 1220								
Field Personnel: Corne	Finish Date: Same	Time: 1240										
WELL INFORMATION			EVENT TYPE									
Well ID: H-2	Well Development	Well Volume Approach Sampling	Low-Flow / Low Stress Sampling Other (Specify): Low Flow									
Casing ID: 2 inches	YSI SERIAL NO: 211A-101226 Heron Serial NO: 12DF2403/61HB											
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		19.7	6.99	726	2.04	7.56	120.5	Clear
Purge	5	1223		56.62		19.7	6.99	728	2.04	6.97	119.3	
	10	1230		56.62		19.6	6.98	727	2.00	6.91	119.0	
*****	15	1235		56.62		19.6	6.99	727	1.98	7.78	118.9	
	20	1240	3 Gal	56.62								
	25	1245										
	30											
	35											
	40											
	45											
	50											
	55											
	60											
NOTES (continued)										ABBREVIATIONS		
Sample ID: 47										ORP - Oxidation-Reduction Potential SEC -		
Sampled @ 1240 on 10/19/24										FT BTDC - Feet Below Top of Casing na -		
										Specific Electrical Conductance SU - Standard		
										Units		
										Temp - Temperature		
										°C - Degrees Celsius		

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>		Client: <u>Visira</u>										
Project Number: <u>2054</u>		Task #: _____		Start Date: <u>10/9/2024</u>		Time: <u>1030</u>						
Field Personnel: <u>C. Arnsperg</u>		Finish Date: <u>10/9/24</u>		Time: <u>1130</u>								
WELL INFORMATION				EVENT TYPE								
Well ID: <u>49</u>		Inches		Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): Low Flow				
Casing ID: _____		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	—	15.3	7.75	1150	6.64	4.77	-185.1	Clear
	10	1040	—	21.21	—	14.6	7.06	1170	0.99	28.06	-20.4	Clear
	15	1045	—	22.23	—	14.0	7.05	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	73.05	11.4	—
Sample	35	1105	—	—	—	—	—	—	—	—	—	—
↓	40	1110	—	—	—	—	—	—	—	—	—	—
	45	1115	—	—	—	—	—	—	—	—	—	—
Final	50	1125	—	22.27	—	—	—	—	—	—	—	—
	55	—	—	—	—	—	—	—	—	—	—	—
	60	—	—	—	—	—	—	—	—	—	—	—
NOTES (continued)												
Sample ID: <u>Hen 49, 49MS 49MSD</u>												
Sampled @ <u>on 10/9/24</u>												
ABBREVIATIONS												
Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured												
ORP - Oxidation-Reduction Potential SEC - Units Temp - Temperature °C - Degree Celsius												

Hen 49 Hen 49MS 49MSD
@1105 @1110 @1115
10/9/24 10/9/24 10/9/24

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: Hennepin		Client: Vistra										
Project Number:		Task #:		Start Date: 10/9/24		Time: 1230						
Field Personnel: G. Asbury		Finish Date: 10/9/24		Time: 1310								
WELL INFORMATION				EVENT TYPE								
Well ID: 50		Inches		Well Development				Low-Flow / Low Stress Sampling Other				
Casing ID:				Well Volume Approach Sampling				YSI SERIAL NO: 0101474X 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	1.36	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	1064	0.32	3.81	-16.0	↓
****	20	1255	3	18.96	—	16.1	7.42	1069	0.36	3.46	-22.6	↓
	25	1300	4	19.02	—	16.1	7.42	1070	0.48	5.13	-20.3	↓
Sample Final	30	1305	4.5	18.96	—	—	—	—	—	—	—	—
	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 Celsius												

Hen-50
10/9/24
⑨/305

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION													
Site: <u>Hennepin</u>		Client: <u>Vistra</u>											
Project Number: <u>0054</u>		Task #: _____		Start Date: <u>10/14/2024</u>		Time: <u>0825</u>							
Field Personnel: <u>G. Asadally</u>		Finish Date: <u>10/19/24</u>		Time: _____									
WELL INFORMATION				EVENT TYPE									
Well ID: <u>51</u>		Inches		Well Development				Low-Flow / Low Stress Sampling Other				YSI SERIAL NO:	
Casing ID: _____				Well Volume Approach Sampling				(Specify): Low Flow				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	19.45	-146.0	↓	
*****	20	0850	1.5	19.49	—	12.6	7.33	1193	0.74	15.42	-149.9	Muddy	
	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	
Sand	35	0905	—	—	—	—	—	—	—	—	—	—	
FINISH	40	0920	—	19.15	—	—	—	—	—	—	—	—	
	45												
	50												
	55												
	60												
NOTES (continued)													
Sample ID: <u>51</u>													
Sampled @ <u>0905</u> on <u>10/19/24</u>													
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													

Hen_51
0905
10/19/24

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION												
Site: <u>Hennepin</u>		Client: <u>Vistra</u>		Start Date: <u>10/10/2024</u>		Time: <u>0730</u>						
Project Number: <u>00514</u>		Task #: <u>1</u>		Finish Date: <u>10/10/2024</u>		Time: <u>0820</u>						
Field Personnel: <u>E. A. Sullivan</u>												
WELL INFORMATION				EVENT TYPE								
Well ID: <u>52</u>		Inches		Well Development Well Volume Approach Sampling				Low-Flow / Low Stress Sampling Other (Specify): Low Flow				
Casing ID:		YSI SERIAL NO: <u>11101474x</u> 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) +/- 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	939	4.70	4.92	75.2	clear
	10	0745	1	54.71	—	19.4	6.87	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	1.40	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)				ABBREVIATIONS								
Sample ID: <u>52</u>				Cond - Actual Conductivity								
Sampled @ <u>0810</u> on <u>10/10/24</u>				FT BTCC - Feet Below Top of Casing na -								
				Not Applicable								
				Temp - Temperature								
				nm - Not Measured								
				°C - Degrees Celsius								

Hen-52 @ 0810

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

Site: <u>Hennepin</u>		Client: <u>Vistra</u>	
Project Number: <u>0054</u>		Task #: <u>10740</u>	
Field Personnel: <u>Carne</u>		Finish Date: <u>Same</u>	
Time: <u>0815</u>		Time: <u>0815</u>	

WATER QUALITY INDICATOR PARAMETERS (continued)												
Sampling Stage	Minutes Elapsed	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) +/- 0.1	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		16.9	7.22	658	2.45	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	364	54.05		17.1	7.22	658	2.08	8.51	88.6	
	35											
	40											
	45											
	50											
	55											
	60											

NOTES (continued)	
Sample ID: <u>54</u>	ABBREVIATIONS
Sampled @ <u>0815</u> on <u>10/10/24</u>	Cond - Actual Conductivity FT BTCC - 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

Dupe @ 0825

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

Job Notes

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

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

Authorization



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11/11/24 14:44:04

Authorized for release by
Dirk Nelson, Project Management Assistant II
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(708)534-5200

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
IN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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 1.5° C, 1.5° C, 3.2° C, 3.5° C, 3.8° C, 4.0° C, 4.2° C, 4.9° C, 5.0° C, 5.2° C, 5.3° C, 5.9° C and 13.8° 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.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-005
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.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HENE-24Q4-005
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.

Eurofins Chicago

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-2
HEN-24-002905
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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-005
SDG: HEN_000_RAD

Client Sample ID: HEN_08&D

Lab Sample ID: 500-258038-6

Date Collected: 10/08/24 08:15

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_18&D

Lab Sample ID: 500-258038-9

Date Collected: 10/08/24 12:50

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-005
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S

Lab Sample ID: 500-258038-10

Date Collected: 10/08/24 11:50

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_21R

Lab Sample ID: 500-258038-11

Date Collected: 10/08/24 16:00

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_27

Lab Sample ID: 500-258038-12

Date Collected: 10/08/24 11:55

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
SDG: HEN_000_RAD

Client Sample ID: HEN_32

Lab Sample ID: 500-258038-13

Date Collected: 10/08/24 11:05

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_34

Lab Sample ID: 500-258038-14

Date Collected: 10/08/24 13:45

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35

Lab Sample ID: 500-258038-15

Date Collected: 10/08/24 14:35

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-258038-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35_FD

Lab Sample ID: 500-258038-16

Date Collected: 10/08/24 14:40

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-005
SDG: HEN_000_RAD

Client Sample ID: HEN_03R

Lab Sample ID: 500-258038-19

Date Collected: 10/09/24 10:15

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0519	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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-005
SDG: HEN_000_RAD

Client Sample ID: HEN_03R_FD

Lab Sample ID: 500-258038-20

Date Collected: 10/09/24 10:30

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.187		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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_16

Lab Sample ID: 500-258038-21

Date Collected: 10/09/24 15:05

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0589	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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_16_FD

Lab Sample ID: 500-258038-22

Date Collected: 10/09/24 15:20

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0641	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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
SDG: HEN_000_RAD

Client Sample ID: HEN_17

Lab Sample ID: 500-258038-23

Date Collected: 10/09/24 14:10

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.140		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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
SDG: HEN_000_RAD

Client Sample ID: HEN_22

Lab Sample ID: 500-258038-24

Date Collected: 10/09/24 14:25

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0222	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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
SDG: HEN_000_RAD

Client Sample ID: HEN_22&D

Lab Sample ID: 500-258038-25

Date Collected: 10/09/24 13:50

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.620		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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24-002-005
SDG: HEN_000_RAD

Client Sample ID: HEN_23

Lab Sample ID: 500-258038-26

Date Collected: 10/09/24 10:15

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0934	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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_45#S

Lab Sample ID: 500-258038-27

Date Collected: 10/09/24 09:00

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0985	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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024
SDG: HEN_000_RAD

Client Sample ID: HEN_46

Lab Sample ID: 500-258038-28

Date Collected: 10/09/24 11:30

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.183		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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-005
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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
SDG: HEN_000_RAD

Client Sample ID: HEN_49

Lab Sample ID: 500-258038-30

Date Collected: 10/09/24 11:05

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0560	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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
SDG: HEN_000_RAD

Client Sample ID: HEN_50

Lab Sample ID: 500-258038-31

Date Collected: 10/09/24 13:05

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.313		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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
SDG: HEN_000_RAD

Client Sample ID: HEN_51

Lab Sample ID: 500-258038-32

Date Collected: 10/09/24 09:05

Matrix: Water

Date Received: 10/10/24 11:10

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.776		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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_07

Lab Sample ID: 500-258038-33

Date Collected: 10/10/24 09:20

Matrix: Water

Date Received: 10/10/24 12:46

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_08

Lab Sample ID: 500-258038-34

Date Collected: 10/10/24 09:20

Matrix: Water

Date Received: 10/10/24 12:46

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
SDG: HEN_000_RAD

Client Sample ID: HEN_52

Lab Sample ID: 500-258038-35

Date Collected: 10/10/24 08:10

Matrix: Water

Date Received: 10/10/24 12:46

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2405
SDG: HEN_000_RAD

Client Sample ID: HEN_54

Lab Sample ID: 500-258038-36

Date Collected: 10/10/24 08:15

Matrix: Water

Date Received: 10/10/24 12:46

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
SDG: HEN_000_RAD

Client Sample ID: HEN_54_FD

Lab Sample ID: 500-258038-37

Date Collected: 10/10/24 08:25

Matrix: Water

Date Received: 10/10/24 12:46

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

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024-05
SDG: HEN_000_RAD

Client Sample ID: HEN_FB

Lab Sample ID: 500-258038-38

Date Collected: 10/10/24 09:00

Matrix: Water

Date Received: 10/10/24 12:46

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-005
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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

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	

Eurofins Chicago

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-000-258038-2
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-2
HEN-24Q4-005
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

Eurofins Chicago

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-2
HEN-24Q4-2024-005
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

	MB	MB	Count	Total						
	Result	Qualifier	Uncert.	Uncert.	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Analyte			(2σ+/-)	(2σ+/-)						
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	MB								
	%Yield	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								

Eurofins Chicago

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-258038-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-258038-30 MSD
Matrix: Water
Analysis Batch: 687157

Client Sample ID: HEN_49_MSD
Prep Type: Total/NA
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
Matrix: Water
Analysis Batch: 685117

Client Sample ID: Method Blank
Prep Type: Total/NA
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							
Ba Carrier	99.7		30 - 110							
Y Carrier	78.1		30 - 110							

Lab Sample ID: LCS 160-683228/2-A
Matrix: Water
Analysis Batch: 685117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
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
Matrix: Water
Analysis Batch: 685116

Client Sample ID: HEN_21R_MS
Prep Type: Total/NA
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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-2
SDG: HEN_000_RAD

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

Lab Sample ID: 500-258038-11 MSD
Matrix: Water
Analysis Batch: 685116

Client Sample ID: HEN_21R-MSD
Prep Type: Total/NA
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	MSD Limits										
Ba Carrier	89.6		30 - 110										
Y Carrier	75.1		30 - 110										

Lab Sample ID: MB 160-683390/1-A
Matrix: Water
Analysis Batch: 685399

Client Sample ID: Method Blank
Prep Type: Total/NA
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	MB Limits							
Ba Carrier	94.9		30 - 110							
Y Carrier	80.4		30 - 110							
								Prepared	Analyzed	Dil Fac
								10/14/24 08:36	10/28/24 12:21	1
								10/14/24 08:36	10/28/24 12:21	1

Lab Sample ID: LCS 160-683390/2-A
Matrix: Water
Analysis Batch: 685399

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
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	LCS Limits						
Ba Carrier	86.6		30 - 110						
Y Carrier	75.1		30 - 110						

Lab Sample ID: MB 160-683393/1-A
Matrix: Water
Analysis Batch: 685861

Client Sample ID: Method Blank
Prep Type: Total/NA
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	MB Limits							
Ba Carrier	89.9		30 - 110							
Y Carrier	76.6		30 - 110							
								Prepared	Analyzed	Dil Fac
								10/14/24 08:43	10/30/24 11:56	1
								10/14/24 08:43	10/30/24 11:56	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4-2024
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		
	LCS	LCS											
Carrier	%Yield	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		
	MS	MS											
Carrier	%Yield	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
	MSD	MSD											
Carrier	%Yield	Qualifier	Limits										
Ba Carrier	85.3		30 - 110										
Y Carrier	72.5		30 - 110										

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-000_000
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
HEN-24Q4-2025
SDG: HEN_000_RAD

Client Sample ID: HEN_18#S

Lab Sample ID: 500-258038-10

Date Collected: 10/08/24 11:50

Matrix: Water

Date Received: 10/09/24 12:00

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

Lab Sample ID: 500-258038-11

Date Collected: 10/08/24 16:00

Matrix: Water

Date Received: 10/09/24 12:00

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

Lab Sample ID: 500-258038-12

Date Collected: 10/08/24 11:55

Matrix: Water

Date Received: 10/09/24 12:00

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

Lab Sample ID: 500-258038-13

Date Collected: 10/08/24 11:05

Matrix: Water

Date Received: 10/09/24 12:00

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Job ID: 500-258038-2
HEN-24Q4-2025
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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-000-202505
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

Client Sample ID: HEN_03R_FD

Lab Sample ID: 500-258038-20

Date Collected: 10/09/24 10:30

Matrix: Water

Date Received: 10/10/24 11:10

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

Lab Sample ID: 500-258038-21

Date Collected: 10/09/24 15:05

Matrix: Water

Date Received: 10/10/24 11:10

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

Lab Sample ID: 500-258038-22

Date Collected: 10/09/24 15:20

Matrix: Water

Date Received: 10/10/24 11:10

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

Lab Sample ID: 500-258038-23

Date Collected: 10/09/24 14:10

Matrix: Water

Date Received: 10/10/24 11:10

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-24Q4
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
HEN-000_005
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

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

ATTACHMENT B.
15 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 590-258038-2
HEN-24-002905
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	Visira Corp-Hennepin	Report To	Brian Voelker	Attention	Brian Voelker
Address	13498 E 800th St Hennepin, IL 61327	Copy To	Sam Davies samantha.davies@visiracorp.com	Company Name	Visira Corp
Email To	Brian.Voelker@VisiraCorp.com	Purchase Order No.	Jason Stuckey & Michael Oille	Address	see Section A
Phone	(217) 763-8911 Fax.	Project Name	Jason Stuckey & Michael Oille	Quote Reference	
Requested Due Date/TAT	10 day	Project Number	50023030	Project Manager	
				Profile #	

Page 2 of 3

Section D Required Client Information		Section E Requested Analysis Filtered (Y/N)		Section F Requested Analysis Filtered (Y/N)	
Valid Matrix Codes	CODE	DRINKING WATER	DW	GROUND WATER	GW
WATER	WT	WASTE WATER	WW	RCRA	RCRA
PRODUCT	P	SOIL/SOLID	SL	OTHER	OTHER
OIL	OL	WIFE	WP	Residual Chlorine (Y/N)	
WASTE	WT	ART	AT		
OTHER	OT	TISSUE	TS		
SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE					

ITEM #	MATRIX CODE	DATE	TIME	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	DATE	TIME	Temp in °C	Received on	Custody	Sealed	Samples
1	HEN-21R																	
2	HEN-22																	
3	HEN-22&D																	
4	HEN-23																	
5	HEN-27																	
6	HEN-32																	
7	HEN-34																	
8	HEN-35																	
9	HEN-35-FD																	
10	HEN-40#S																	
11	HEN-45#S																	
12	HEN-46																	
13	HEN-47																	
14	HEN-49																	
15	HEN-50																	
16	HEN-51																	

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
David Davies	10/7/24	0700	David Davies	10/18/24	0913
SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER					
SIGNATURE of SAMPLER					

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 Hennepin, IL 61327	Copy To:	Sam Davies samantha.davies@vistracorp.com	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:	Jason Stuckey & Michael Oille	Address:	see Section A
Phone:	(217) 753-8911	Project Name:	Jason.Stuckey@vistracorp.com	Quote Reference:	
Fax:		Requested Due Date/TAT:	10 day	Project Manager:	
		Project Number:	50023030	Profile #:	

ITEM #	Section D Required Client Information	Valid Matrix Codes										MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test↑	Y/N	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		MATRIX	CODE	DRINKING WATER	DW	WASTE WATER	WW	WASTE WATER PRODUCT	P	SOLID	SL			OIL	OL			WIPE	WP	AIR	AT	OTHER	OT	TISSUE	TS	Unpreserved	H ₂ SO ₄			HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	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)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
HEN-24Q4 Rev 0	Sam Davies	10/18/24	0700	Brian Voelker	10/18/24	0917	Temp in °C
	Jason Stuckey	10/18/24	1117	Michael Oille	10/18/24	1117	Received on
							Cooler (Y/N)
							Custody
							Sealed
							Samples
							Intact (Y/N)

Sample date and default time added - dbn 102824

Signature of SAMPLER: *Sam Davies* DATE SIGNED (MM/DD/YY): 10/18/24

Signature of ANALYST: *Brian Voelker* DATE SIGNED (MM/DD/YY): 10/18/24

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HEN-845-8024805

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11/11/24

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[illegible]

Sample dates added - dbn 102824

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$$5.0+4.9, 5.3+5.2, 5.4+5.3, 4.1+4.0$$

$$5.1+5.0$$

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ITEM #	Section D Required Client Information	Valid Matrix Codes <u>MATRIX</u> <u>CODE</u> DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								<u>Y/N</u>	Requested Analysis Filtered (Y/N)																
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		↓ 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				10-9-24	1425							X		X				X		X	H												
3	HEN_22&D				10-9-24	1350							X		X				X		X	H												
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									
11	HEN_45#S				10-9-24	0900							X	X				X		X		B			SHORT HOLD - NO2									
12	HEN_46				10-9-24	1130							X		X				X			G												
13	HEN_47				10-9-24	1240							X		X				X			G												
14	HEN_49				10-9-24	1105							X		X				X		X	H			MS/MSD									
15	HEN_50				10-9-24	1305							X		X				X		X	H												
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 F Lewis			10/10/24	0900	N. J. Elkin			10/10/24	0900																						
			Stephanie Hemminger			10/10/24	1110				10/10/24	1110																						
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 F Lewis																																		
SIGNATURE OF SAMPLER Lorne F Lewis DATE Signed (MM/DD/YY) 10-10-24																																		

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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

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 $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	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 $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

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	

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

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

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q4

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
Job ID: 500-258038-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)			
		Ba			
Lab Sample ID	Client Sample ID	(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

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 4, 2024
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
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

**ATTACHMENT C
COMPARISON TO BACKGROUND
QUARTER 4, 2024**

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
03R	UA	E007	Antimony, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.003	0.001
03R	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/09/24	29	100	All ND - Last	0.001	0.001
03R	UA	E007	Barium, total	mg/L	12/09/15 - 10/09/24	31	0	CI around mean	0.062	0.212
03R	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.001	0.001
03R	UA	E007	Boron, total	mg/L	12/09/15 - 10/09/24	35	0	CB around T-S line	0.356	0.163
03R	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/09/24	30	93	CB around T-S line	0.000596	0.00230
03R	UA	E007	Chloride, total	mg/L	12/09/15 - 10/09/24	35	0	CI around geomean	71.3	435
03R	UA	E007	Chromium, total	mg/L	12/09/15 - 10/09/24	29	93	CB around T-S line	0.0015	0.00100
03R	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/09/24	30	97	CI around median	0.001	0.0380
03R	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/09/24	32	3	CI around median	0.27	0.120
03R	UA	E007	Lead, total	mg/L	12/09/15 - 10/09/24	29	100	All ND - Last	0.0005	0.00150
03R	UA	E007	Lithium, total	mg/L	12/09/15 - 10/09/24	34	0	CI around mean	0.0232	0.0190
03R	UA	E007	Mercury, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.0002	0.0002
03R	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/09/24	34	0	CB around linear reg	0.0683	0.00170
03R	UA	E007	pH (field)	SU	12/09/15 - 10/09/24	38	0	CB around T-S line	7.1/7.2	6.6/7.5
03R	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/09/24	29	0	CI around median	0.28	1.50
03R	UA	E007	Selenium, total	mg/L	12/09/15 - 10/09/24	31	6	CI around mean	0.00472	0.00140
03R	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/09/24	34	0	CB around linear reg	71.8	215
03R	UA	E007	Thallium, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.002	0.001
03R	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/09/24	35	0	CI around mean	514	1,620
18S	UA	E007	Antimony, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.003	0.001
18S	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/08/24	29	97	CI around median	0.001	0.001
18S	UA	E007	Barium, total	mg/L	12/09/15 - 10/08/24	31	0	CB around linear reg	0.0507	0.212
18S	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.001	0.001
18S	UA	E007	Boron, total	mg/L	12/09/15 - 10/08/24	35	0	CB around T-S line	1.15	0.163
18S	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/08/24	30	79	CB around T-S line	0.000586	0.00230
18S	UA	E007	Chloride, total	mg/L	12/09/15 - 10/08/24	35	0	CB around linear reg	67.8	435

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
18S	UA	E007	Chromium, total	mg/L	12/09/15 - 10/08/24	30	62	CB around T-S line	0.0015	0.00100
18S	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/08/24	30	85	CI around median	0.001	0.0380
18S	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/08/24	32	3	CB around T-S line	0.168	0.120
18S	UA	E007	Lead, total	mg/L	12/09/15 - 10/08/24	29	100	All ND - Last	0.0005	0.00150
18S	UA	E007	Lithium, total	mg/L	12/09/15 - 10/08/24	34	0	CB around T-S line	0.0333	0.0190
18S	UA	E007	Mercury, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.0002	0.0002
18S	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/08/24	34	0	CB around linear reg	0.081	0.00170
18S	UA	E007	pH (field)	SU	12/09/15 - 10/08/24	38	0	CI around median	7.3/7.4	6.6/7.5
18S	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	29	0	CI around mean	0.356	1.50
18S	UA	E007	Selenium, total	mg/L	12/09/15 - 10/08/24	31	3	CB around T-S line	0.00105	0.00140
18S	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/08/24	35	0	CB around T-S line	85.2	215
18S	UA	E007	Thallium, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.002	0.001
18S	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/08/24	35	0	CI around geomean	568	1,620
18D	UA	E007	Antimony, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.003	0.001
18D	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/08/24	29	97	CI around median	0.001	0.001
18D	UA	E007	Barium, total	mg/L	12/09/15 - 10/08/24	31	0	CB around T-S line	0.0618	0.212
18D	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.001	0.001
18D	UA	E007	Boron, total	mg/L	12/09/15 - 10/08/24	35	0	CB around linear reg	1.12	0.163
18D	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/08/24	30	94	CB around T-S line	0.000765	0.00230
18D	UA	E007	Chloride, total	mg/L	12/09/15 - 10/08/24	35	0	CI around mean	75.4	435
18D	UA	E007	Chromium, total	mg/L	12/09/15 - 10/08/24	29	94	CB around T-S line	0.0015	0.00100
18D	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/08/24	31	3	CB around linear reg	-0.000248	0.0380
18D	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/08/24	32	3	CI around median	0.15	0.120
18D	UA	E007	Lead, total	mg/L	12/09/15 - 10/08/24	29	91	CB around T-S line	0.000827	0.00150
18D	UA	E007	Lithium, total	mg/L	12/09/15 - 10/08/24	34	0	CB around linear reg	0.0225	0.0190
18D	UA	E007	Mercury, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.0002	0.0002
18D	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/08/24	34	0	CI around median	0.0315	0.00170

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
18D	UA	E007	pH (field)	SU	12/09/15 - 10/08/24	38	0	CI around median	7.1/7.2	6.6/7.5
18D	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	29	0	CI around mean	0.575	1.50
18D	UA	E007	Selenium, total	mg/L	12/09/15 - 10/08/24	30	94	CB around T-S line	0.001	0.00140
18D	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/08/24	35	0	CB around linear reg	86.5	215
18D	UA	E007	Thallium, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.002	0.001
18D	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/08/24	35	0	CB around T-S line	469	1,620
45S	UA	E007	Antimony, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.003	0.001
45S	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/09/24	29	93	CI around median	0.001	0.001
45S	UA	E007	Barium, total	mg/L	12/09/15 - 10/09/24	31	0	CB around linear reg	0.0783	0.212
45S	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.001	0.001
45S	UA	E007	Boron, total	mg/L	12/09/15 - 10/09/24	32	0	CB around linear reg	0.22	0.163
45S	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/09/24	30	40	CB around linear reg	0.000582	0.00230
45S	UA	E007	Chloride, total	mg/L	12/09/15 - 10/09/24	32	0	CI around mean	81.2	435
45S	UA	E007	Chromium, total	mg/L	12/09/15 - 10/09/24	30	93	CB around T-S line	0.0015	0.00100
45S	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/09/24	31	13	CI around geomean	0.00142	0.0380
45S	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/09/24	32	3	CB around T-S line	0.241	0.120
45S	UA	E007	Lead, total	mg/L	12/09/15 - 10/09/24	29	79	CI around median	0.001	0.00150
45S	UA	E007	Lithium, total	mg/L	12/09/15 - 10/09/24	31	0	CB around linear reg	0.0108	0.0190
45S	UA	E007	Mercury, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.0002	0.0002
45S	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/09/24	31	0	CB around linear reg	0.0396	0.00170
45S	UA	E007	pH (field)	SU	12/09/15 - 10/09/24	32	0	CI around mean	7.1/7.2	6.6/7.5
45S	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/09/24	29	0	CI around geomean	0.457	1.50
45S	UA	E007	Selenium, total	mg/L	12/09/15 - 10/09/24	30	100	All ND - Last	0.0025	0.00140
45S	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/09/24	32	0	CI around median	70	215
45S	UA	E007	Thallium, total	mg/L	12/09/15 - 10/09/24	28	100	All ND - Last	0.002	0.001
45S	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/09/24	32	0	CI around mean	527	1,620

ATTACHMENT C.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Notes:

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

Throughout this document, “exceedance” or “exceedances” is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) on October 25, 2021 as part of Dynegy Midwest Generation, LLC’s (DMG’s) operating permit application for the Ash Pond No. 2 and Ash Pond No. 4. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, DMG has not identified any actual exceedances.

Events:

E007 = Quarter 4, 2024 sampling event

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

Statistical Result Code (if applicable):

NR¹ = Parameter not analyzed.

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

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

NS³ = The location was not accessible; therefore, a sample was not collected.

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

NS⁵ = The location was damaged; therefore, a sample was not collected.

NS⁶ = Sampling pump could not yield a sample.

NS⁷ = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.

NS⁸ = A sample was not collected.

PM¹ = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.

For pH, the values presented are the lower / upper limits of the background determination