



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

August 30, 2024

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

**Re: Hennepin Power Plant West Ash Pond System; IEPA ID # W1550100002-01 and
W1550100002-03**

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 2, 2024 sampling event at the Hennepin Power Plant West Ash Pond System (WAPS), identified by Illinois Environmental Protection Agency (IEPA) ID No. W1550100002-01 and No. W1550100002-03. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS.

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

As allowed in 35 I.A.C. § 845.650(e), an Alternative Source Demonstration (ASD) was submitted on November 10, 2023 for the exceedance of the GWPS detected during the Quarter 2, 2023 sampling event. Exceedances of cadmium were detected during the Quarter 2, 2024 sampling event in the same monitoring wells identified in the approved ASD. The IEPA provided a written concurrence with the ASD on December 11, 2023, and therefore, groundwater monitoring may continue in accordance with 35 I.A.C. § 845.650(e)(5).

A Corrective Measures Assessment (CMA) for the WAPS was initiated on December 10, 2023 and submitted on May 8, 2024 in accordance with 35 I.A.C. § 845.660. The CMA was the first step towards developing a Corrective Action Plan which will ultimately select a remedy to address all releases from the WAPS. The selected remedy will meet the performance standards of 35 I.A.C. § 845.670(d) and the Corrective Action Plan will be submitted to the Agency on or before May 8, 2025. Once implemented and completed, the selected remedy will attain the GWPSs.

Sincerely,

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

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

Enclosures

*Groundwater Monitoring Data and Detected Exceedances, Quarter 2, 2024, West Ash Pond System,
Hennepin Power Plant, Hennepin, Illinois*

35 I.A.C. § 845.610(b)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 2, 2024
WEST ASH POND SYSTEM, HENNEPIN POWER PLANT, HENNEPIN, ILLINOIS

August 30, 2024

Samples were collected on May 30, 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 July 1, 2024.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 2, 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 2, 2024 sampling event.

Statistical procedures used to evaluate groundwater results are provided in the Addendum to the Groundwater Plan¹ provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 2, 2024 groundwater monitoring data were evaluated for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

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

As allowed in 35 I.A.C. § 845.650(e), an Alternative Source Demonstration² (ASD) was submitted on November 10, 2023 for the exceedances of the GWPS detected during the Quarter 2, 2023 sampling event. Exceedances of cadmium were detected during the Quarter 2, 2024 sampling event in the same monitoring wells identified in the approved ASD. The Illinois Environmental Protection Agency (IEPA) provided a written concurrence with the ASD on December 11, 2023³, and therefore, groundwater monitoring may continue in accordance with 35 I.A.C. § 845.650(e)(5).

¹ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan Addendum for the West Ash Pond System. Hennepin Power Plant. Hennepin, Illinois. October 25, 2021.*

² Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023. 35 I.A.C. § 845.650(E): *Alternative Source Demonstration, West Ash Pond System, Hennepin Power Plant, Hennepin, IL, IEPA ID: W1550100002-01 and W1550100002-03. November 10, 2023.*

³ Illinois Environmental Protection Agency (IEPA), 2023. *Letter from Michael Summers (IEPA) to Phil Morris (Dynegy Midwest Generation, LLC): Re: Hennepin Power Plant West Ash Pond System; W1550100002-01 & 03, Alternative Source Demonstration (ASD) Submittal. December 11, 2023.*

TABLES

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

FIGURES

Figure 1	Monitoring Well Location Map
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ATTACHMENTS

Attachment A	Groundwater Elevation Data - Quarter 2, 2024
Attachment B	Laboratory Reports and Field Data Sheets - Quarter 2, 2024
Attachment C	Comparison of Statistical Results to Background - Quarter 2, 2024

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
32	Background	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
32	Background	E005	05/30/2024	Arsenic, total	0.00047 J	mg/L
32	Background	E005	05/30/2024	Barium, total	0.0450	mg/L
32	Background	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
32	Background	E005	05/30/2024	Boron, total	0.160 J+	mg/L
32	Background	E005	05/30/2024	Cadmium, total	0.00026 J	mg/L
32	Background	E005	05/30/2024	Calcium, total	100	mg/L
32	Background	E005	05/30/2024	Chloride, total	82.0	mg/L
32	Background	E005	05/30/2024	Chromium, total	0.002 J	mg/L
32	Background	E005	05/30/2024	Cobalt, total	0.00100	mg/L
32	Background	E005	05/30/2024	Dissolved Oxygen	-0.0300	mg/L
32	Background	E005	05/30/2024	Fluoride, total	0.140	mg/L
32	Background	E005	05/30/2024	Lead, total	0.00140	mg/L
32	Background	E005	05/30/2024	Lithium, total	0.00600	mg/L
32	Background	E005	05/30/2024	Mercury, total	0.00017 J	mg/L
32	Background	E005	05/30/2024	Molybdenum, total	0.0025 U	mg/L
32	Background	E005	05/30/2024	Oxidation Reduction Potential	196	mV
32	Background	E005	05/30/2024	pH (field)	7.2	SU
32	Background	E005	05/30/2024	Radium 226 + Radium 228, total	0.258	pCi/L
32	Background	E005	05/30/2024	Selenium, total	0.00098 U	mg/L
32	Background	E005	05/30/2024	Specific Conductance @ 25C (field)	881	micromhos/cm
32	Background	E005	05/30/2024	Sulfate, total	56.0	mg/L
32	Background	E005	05/30/2024	Temperature	11.7	degrees C
32	Background	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
32	Background	E005	05/30/2024	Total Dissolved Solids	560	mg/L
32	Background	E005	05/30/2024	Turbidity, field	6.91	NTU
34	Background	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
34	Background	E005	05/30/2024	Arsenic, total	0.00059 J	mg/L
34	Background	E005	05/30/2024	Barium, total	0.110	mg/L
34	Background	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
34	Background	E005	05/30/2024	Boron, total	0.140 J+	mg/L
34	Background	E005	05/30/2024	Cadmium, total	0.00017 U	mg/L
34	Background	E005	05/30/2024	Calcium, total	170	mg/L
34	Background	E005	05/30/2024	Chloride, total	70.0	mg/L
34	Background	E005	05/30/2024	Chromium, total	0.0014 J	mg/L
34	Background	E005	05/30/2024	Cobalt, total	0.00043 J	mg/L
34	Background	E005	05/30/2024	Dissolved Oxygen	-0.160	mg/L
34	Background	E005	05/30/2024	Fluoride, total	0.170	mg/L
34	Background	E005	05/30/2024	Lead, total	0.00100	mg/L
34	Background	E005	05/30/2024	Lithium, total	0.0160	mg/L
34	Background	E005	05/30/2024	Mercury, total	0.000076 U	mg/L
34	Background	E005	05/30/2024	Molybdenum, total	0.0025 U	mg/L
34	Background	E005	05/30/2024	Oxidation Reduction Potential	-89.1	mV
34	Background	E005	05/30/2024	pH (field)	7.2	SU
34	Background	E005	05/30/2024	Radium 226 + Radium 228, total	1.01	pCi/L
34	Background	E005	05/30/2024	Selenium, total	0.00098 U	mg/L

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WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
34	Background	E005	05/30/2024	Specific Conductance @ 25C (field)	1,222	micromhos/cm
34	Background	E005	05/30/2024	Sulfate, total	51.0	mg/L
34	Background	E005	05/30/2024	Temperature	12.0	degrees C
34	Background	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
34	Background	E005	05/30/2024	Total Dissolved Solids	830	mg/L
34	Background	E005	05/30/2024	Turbidity, field	6.30	NTU
21R	Compliance	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
21R	Compliance	E005	05/30/2024	Arsenic, total	0.0220	mg/L
21R	Compliance	E005	05/30/2024	Barium, total	0.280	mg/L
21R	Compliance	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
21R	Compliance	E005	05/30/2024	Boron, total	2.30	mg/L
21R	Compliance	E005	05/30/2024	Cadmium, total	0.00017 U	mg/L
21R	Compliance	E005	05/30/2024	Calcium, total	140	mg/L
21R	Compliance	E005	05/30/2024	Chloride, total	94.0	mg/L
21R	Compliance	E005	05/30/2024	Chromium, total	0.0023 J	mg/L
21R	Compliance	E005	05/30/2024	Cobalt, total	0.0009 J	mg/L
21R	Compliance	E005	05/30/2024	Dissolved Oxygen	1.89	mg/L
21R	Compliance	E005	05/30/2024	Fluoride, total	0.160	mg/L
21R	Compliance	E005	05/30/2024	Lead, total	0.00160	mg/L
21R	Compliance	E005	05/30/2024	Lithium, total	0.0290	mg/L
21R	Compliance	E005	05/30/2024	Mercury, total	0.000076 U	mg/L
21R	Compliance	E005	05/30/2024	Molybdenum, total	0.00950	mg/L
21R	Compliance	E005	05/30/2024	Oxidation Reduction Potential	-124	mV
21R	Compliance	E005	05/30/2024	pH (field)	7.6	SU
21R	Compliance	E005	05/30/2024	Radium 226 + Radium 228, total	1.57	pCi/L
21R	Compliance	E005	05/30/2024	Selenium, total	0.00098 U	mg/L
21R	Compliance	E005	05/30/2024	Specific Conductance @ 25C (field)	1,120	micromhos/cm
21R	Compliance	E005	05/30/2024	Sulfate, total	88.0	mg/L
21R	Compliance	E005	05/30/2024	Temperature	17.7	degrees C
21R	Compliance	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
21R	Compliance	E005	05/30/2024	Total Dissolved Solids	680	mg/L
21R	Compliance	E005	05/30/2024	Turbidity, field	51.9	NTU
22	Compliance	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
22	Compliance	E005	05/30/2024	Arsenic, total	0.00076 J	mg/L
22	Compliance	E005	05/30/2024	Barium, total	0.0580	mg/L
22	Compliance	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
22	Compliance	E005	05/30/2024	Boron, total	3.00	mg/L
22	Compliance	E005	05/30/2024	Cadmium, total	0.00490	mg/L
22	Compliance	E005	05/30/2024	Calcium, total	99.0	mg/L
22	Compliance	E005	05/30/2024	Chloride, total	93.0	mg/L
22	Compliance	E005	05/30/2024	Chromium, total	0.0011 U	mg/L
22	Compliance	E005	05/30/2024	Cobalt, total	0.00190	mg/L
22	Compliance	E005	05/30/2024	Dissolved Oxygen	-0.130	mg/L
22	Compliance	E005	05/30/2024	Fluoride, total	0.190	mg/L
22	Compliance	E005	05/30/2024	Lead, total	0.0004 J	mg/L
22	Compliance	E005	05/30/2024	Lithium, total	0.0530	mg/L

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HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
22	Compliance	E005	05/30/2024	Mercury, total	0.000076 U	mg/L
22	Compliance	E005	05/30/2024	Molybdenum, total	0.0720	mg/L
22	Compliance	E005	05/30/2024	Oxidation Reduction Potential	35.7	mV
22	Compliance	E005	05/30/2024	pH (field)	7.7	SU
22	Compliance	E005	05/30/2024	Radium 226 + Radium 228, total	0.602	pCi/L
22	Compliance	E005	05/30/2024	Selenium, total	0.0110	mg/L
22	Compliance	E005	05/30/2024	Specific Conductance @ 25C (field)	992	micromhos/cm
22	Compliance	E005	05/30/2024	Sulfate, total	110	mg/L
22	Compliance	E005	05/30/2024	Temperature	15.7	degrees C
22	Compliance	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
22	Compliance	E005	05/30/2024	Total Dissolved Solids	630	mg/L
22	Compliance	E005	05/30/2024	Turbidity, field	0.810	NTU
22D	Compliance	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
22D	Compliance	E005	05/30/2024	Arsenic, total	0.00099 J	mg/L
22D	Compliance	E005	05/30/2024	Barium, total	0.0690	mg/L
22D	Compliance	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
22D	Compliance	E005	05/30/2024	Boron, total	1.50	mg/L
22D	Compliance	E005	05/30/2024	Cadmium, total	0.00017 U	mg/L
22D	Compliance	E005	05/30/2024	Calcium, total	130	mg/L
22D	Compliance	E005	05/30/2024	Chloride, total	100	mg/L
22D	Compliance	E005	05/30/2024	Chromium, total	0.0011 U	mg/L
22D	Compliance	E005	05/30/2024	Cobalt, total	0.0004 U	mg/L
22D	Compliance	E005	05/30/2024	Dissolved Oxygen	0.280	mg/L
22D	Compliance	E005	05/30/2024	Fluoride, total	0.120	mg/L
22D	Compliance	E005	05/30/2024	Lead, total	0.00024 J	mg/L
22D	Compliance	E005	05/30/2024	Lithium, total	0.0190	mg/L
22D	Compliance	E005	05/30/2024	Mercury, total	0.000076 U	mg/L
22D	Compliance	E005	05/30/2024	Molybdenum, total	0.00650	mg/L
22D	Compliance	E005	05/30/2024	Oxidation Reduction Potential	-120	mV
22D	Compliance	E005	05/30/2024	pH (field)	7.3	SU
22D	Compliance	E005	05/30/2024	Radium 226 + Radium 228, total	2.07	pCi/L
22D	Compliance	E005	05/30/2024	Selenium, total	0.00098 U	mg/L
22D	Compliance	E005	05/30/2024	Specific Conductance @ 25C (field)	1,084	micromhos/cm
22D	Compliance	E005	05/30/2024	Sulfate, total	93.0	mg/L
22D	Compliance	E005	05/30/2024	Temperature	16.0	degrees C
22D	Compliance	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
22D	Compliance	E005	05/30/2024	Total Dissolved Solids	660	mg/L
22D	Compliance	E005	05/30/2024	Turbidity, field	6.82	NTU
23	Compliance	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
23	Compliance	E005	05/30/2024	Arsenic, total	0.00110	mg/L
23	Compliance	E005	05/30/2024	Barium, total	0.0440	mg/L
23	Compliance	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
23	Compliance	E005	05/30/2024	Boron, total	8.90	mg/L
23	Compliance	E005	05/30/2024	Cadmium, total	0.00029 J	mg/L
23	Compliance	E005	05/30/2024	Calcium, total	120	mg/L
23	Compliance	E005	05/30/2024	Chloride, total	56.0	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
23	Compliance	E005	05/30/2024	Chromium, total	0.0011 U	mg/L
23	Compliance	E005	05/30/2024	Cobalt, total	0.00057 J	mg/L
23	Compliance	E005	05/30/2024	Dissolved Oxygen	-0.130	mg/L
23	Compliance	E005	05/30/2024	Fluoride, total	0.170	mg/L
23	Compliance	E005	05/30/2024	Lead, total	0.00024 J	mg/L
23	Compliance	E005	05/30/2024	Lithium, total	0.00600	mg/L
23	Compliance	E005	05/30/2024	Mercury, total	0.000076 U	mg/L
23	Compliance	E005	05/30/2024	Molybdenum, total	0.0190	mg/L
23	Compliance	E005	05/30/2024	Oxidation Reduction Potential	-101	mV
23	Compliance	E005	05/30/2024	pH (field)	7.6	SU
23	Compliance	E005	05/30/2024	Radium 226 + Radium 228, total	0.00546	pCi/L
23	Compliance	E005	05/30/2024	Selenium, total	0.00098 U	mg/L
23	Compliance	E005	05/30/2024	Specific Conductance @ 25C (field)	1,223	micromhos/cm
23	Compliance	E005	05/30/2024	Sulfate, total	450	mg/L
23	Compliance	E005	05/30/2024	Temperature	13.3	degrees C
23	Compliance	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
23	Compliance	E005	05/30/2024	Total Dissolved Solids	960	mg/L
23	Compliance	E005	05/30/2024	Turbidity, field	1.37	NTU
27	Compliance	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
27	Compliance	E005	05/30/2024	Arsenic, total	0.00074 J	mg/L
27	Compliance	E005	05/30/2024	Barium, total	0.0820	mg/L
27	Compliance	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
27	Compliance	E005	05/30/2024	Boron, total	2.30	mg/L
27	Compliance	E005	05/30/2024	Cadmium, total	0.00037 J	mg/L
27	Compliance	E005	05/30/2024	Calcium, total	130	mg/L
27	Compliance	E005	05/30/2024	Chloride, total	98.0	mg/L
27	Compliance	E005	05/30/2024	Chromium, total	0.0011 U	mg/L
27	Compliance	E005	05/30/2024	Cobalt, total	0.00270	mg/L
27	Compliance	E005	05/30/2024	Dissolved Oxygen	0.0700	mg/L
27	Compliance	E005	05/30/2024	Fluoride, total	0.160	mg/L
27	Compliance	E005	05/30/2024	Lead, total	0.000940	mg/L
27	Compliance	E005	05/30/2024	Lithium, total	0.0260	mg/L
27	Compliance	E005	05/30/2024	Mercury, total	0.000076 U	mg/L
27	Compliance	E005	05/30/2024	Molybdenum, total	0.0043 J	mg/L
27	Compliance	E005	05/30/2024	Oxidation Reduction Potential	3.10	mV
27	Compliance	E005	05/30/2024	pH (field)	7.3	SU
27	Compliance	E005	05/30/2024	Radium 226 + Radium 228, total	0.405	pCi/L
27	Compliance	E005	05/30/2024	Selenium, total	0.00098 U	mg/L
27	Compliance	E005	05/30/2024	Specific Conductance @ 25C (field)	1,040	micromhos/cm
27	Compliance	E005	05/30/2024	Sulfate, total	110	mg/L
27	Compliance	E005	05/30/2024	Temperature	13.6	degrees C
27	Compliance	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
27	Compliance	E005	05/30/2024	Total Dissolved Solids	730	mg/L
27	Compliance	E005	05/30/2024	Turbidity, field	27	NTU
35	Compliance	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
35	Compliance	E005	05/30/2024	Arsenic, total	0.00110	mg/L

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HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
35	Compliance	E005	05/30/2024	Barium, total	0.0530	mg/L
35	Compliance	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
35	Compliance	E005	05/30/2024	Boron, total	14.0	mg/L
35	Compliance	E005	05/30/2024	Cadmium, total	0.0004 J	mg/L
35	Compliance	E005	05/30/2024	Calcium, total	420	mg/L
35	Compliance	E005	05/30/2024	Chloride, total	14.0	mg/L
35	Compliance	E005	05/30/2024	Chromium, total	0.0011 U	mg/L
35	Compliance	E005	05/30/2024	Cobalt, total	0.00110	mg/L
35	Compliance	E005	05/30/2024	Dissolved Oxygen	0.0100	mg/L
35	Compliance	E005	05/30/2024	Fluoride, total	0.160	mg/L
35	Compliance	E005	05/30/2024	Lead, total	0.00019 U	mg/L
35	Compliance	E005	05/30/2024	Lithium, total	0.0290	mg/L
35	Compliance	E005	05/30/2024	Mercury, total	0.000076 U	mg/L
35	Compliance	E005	05/30/2024	Molybdenum, total	0.0590	mg/L
35	Compliance	E005	05/30/2024	Oxidation Reduction Potential	107	mV
35	Compliance	E005	05/30/2024	pH (field)	7.0	SU
35	Compliance	E005	05/30/2024	Radium 226 + Radium 228, total	0.291	pCi/L
35	Compliance	E005	05/30/2024	Selenium, total	0.00098 U	mg/L
35	Compliance	E005	05/30/2024	Specific Conductance @ 25C (field)	1,949	micromhos/cm
35	Compliance	E005	05/30/2024	Sulfate, total	1,000	mg/L
35	Compliance	E005	05/30/2024	Temperature	15.0	degrees C
35	Compliance	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
35	Compliance	E005	05/30/2024	Total Dissolved Solids	1,800	mg/L
35	Compliance	E005	05/30/2024	Turbidity, field	34.0	NTU
49	Compliance	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
49	Compliance	E005	05/30/2024	Arsenic, total	0.00023 U	mg/L
49	Compliance	E005	05/30/2024	Barium, total	0.0600	mg/L
49	Compliance	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
49	Compliance	E005	05/30/2024	Boron, total	0.720	mg/L
49	Compliance	E005	05/30/2024	Cadmium, total	0.00130	mg/L
49	Compliance	E005	05/30/2024	Calcium, total	120	mg/L
49	Compliance	E005	05/30/2024	Chloride, total	110	mg/L
49	Compliance	E005	05/30/2024	Chromium, total	0.0011 U	mg/L
49	Compliance	E005	05/30/2024	Cobalt, total	0.00360	mg/L
49	Compliance	E005	05/30/2024	Dissolved Oxygen	0.0400	mg/L
49	Compliance	E005	05/30/2024	Fluoride, total	0.170	mg/L
49	Compliance	E005	05/30/2024	Lead, total	0.00019 U	mg/L
49	Compliance	E005	05/30/2024	Lithium, total	0.0260	mg/L
49	Compliance	E005	05/30/2024	Mercury, total	0.000076 U	mg/L
49	Compliance	E005	05/30/2024	Molybdenum, total	0.0220	mg/L
49	Compliance	E005	05/30/2024	Oxidation Reduction Potential	49.1	mV
49	Compliance	E005	05/30/2024	pH (field)	7.2	SU
49	Compliance	E005	05/30/2024	Radium 226 + Radium 228, total	0.787	pCi/L
49	Compliance	E005	05/30/2024	Selenium, total	0.00098 U	mg/L
49	Compliance	E005	05/30/2024	Specific Conductance @ 25C (field)	1,031	micromhos/cm
49	Compliance	E005	05/30/2024	Sulfate, total	81.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
49	Compliance	E005	05/30/2024	Temperature	16.2	degrees C
49	Compliance	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
49	Compliance	E005	05/30/2024	Total Dissolved Solids	630	mg/L
49	Compliance	E005	05/30/2024	Turbidity, field	75.1	NTU
50	Compliance	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
50	Compliance	E005	05/30/2024	Arsenic, total	0.0005 J	mg/L
50	Compliance	E005	05/30/2024	Barium, total	0.0930	mg/L
50	Compliance	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
50	Compliance	E005	05/30/2024	Boron, total	0.760	mg/L
50	Compliance	E005	05/30/2024	Cadmium, total	0.000520	mg/L
50	Compliance	E005	05/30/2024	Calcium, total	140	mg/L
50	Compliance	E005	05/30/2024	Chloride, total	71.0	mg/L
50	Compliance	E005	05/30/2024	Chromium, total	0.0011 U	mg/L
50	Compliance	E005	05/30/2024	Cobalt, total	0.00240	mg/L
50	Compliance	E005	05/30/2024	Dissolved Oxygen	1.01	mg/L
50	Compliance	E005	05/30/2024	Fluoride, total	0.120	mg/L
50	Compliance	E005	05/30/2024	Lead, total	0.00019 U	mg/L
50	Compliance	E005	05/30/2024	Lithium, total	0.0330	mg/L
50	Compliance	E005	05/30/2024	Mercury, total	0.000076 U	mg/L
50	Compliance	E005	05/30/2024	Molybdenum, total	0.0350	mg/L
50	Compliance	E005	05/30/2024	Oxidation Reduction Potential	151	mV
50	Compliance	E005	05/30/2024	pH (field)	7.5	SU
50	Compliance	E005	05/30/2024	Radium 226 + Radium 228, total	1.22	pCi/L
50	Compliance	E005	05/30/2024	Selenium, total	0.0017 J	mg/L
50	Compliance	E005	05/30/2024	Specific Conductance @ 25C (field)	1,035	micromhos/cm
50	Compliance	E005	05/30/2024	Sulfate, total	130	mg/L
50	Compliance	E005	05/30/2024	Temperature	14.9	degrees C
50	Compliance	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
50	Compliance	E005	05/30/2024	Total Dissolved Solids	720	mg/L
50	Compliance	E005	05/30/2024	Turbidity, field	0.890	NTU
51	Compliance	E005	05/30/2024	Antimony, total	0.0013 U	mg/L
51	Compliance	E005	05/30/2024	Arsenic, total	0.0210	mg/L
51	Compliance	E005	05/30/2024	Barium, total	0.100	mg/L
51	Compliance	E005	05/30/2024	Beryllium, total	0.00053 U	mg/L
51	Compliance	E005	05/30/2024	Boron, total	1.50	mg/L
51	Compliance	E005	05/30/2024	Cadmium, total	0.00017 U	mg/L
51	Compliance	E005	05/30/2024	Calcium, total	120	mg/L
51	Compliance	E005	05/30/2024	Chloride, total	100	mg/L
51	Compliance	E005	05/30/2024	Chromium, total	0.0014 J	mg/L
51	Compliance	E005	05/30/2024	Cobalt, total	0.00077 J	mg/L
51	Compliance	E005	05/30/2024	Dissolved Oxygen	-0.0300	mg/L
51	Compliance	E005	05/30/2024	Fluoride, total	0.150	mg/L
51	Compliance	E005	05/30/2024	Lead, total	0.00120	mg/L
51	Compliance	E005	05/30/2024	Lithium, total	0.0270	mg/L
51	Compliance	E005	05/30/2024	Mercury, total	0.000076 U	mg/L
51	Compliance	E005	05/30/2024	Molybdenum, total	0.00860	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2024

845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
51	Compliance	E005	05/30/2024	Oxidation Reduction Potential	-145	mV
51	Compliance	E005	05/30/2024	pH (field)	7.5	SU
51	Compliance	E005	05/30/2024	Radium 226 + Radium 228, total	0.906	pCi/L
51	Compliance	E005	05/30/2024	Selenium, total	0.00098 U	mg/L
51	Compliance	E005	05/30/2024	Specific Conductance @ 25C (field)	1,086	micromhos/cm
51	Compliance	E005	05/30/2024	Sulfate, total	89.0	mg/L
51	Compliance	E005	05/30/2024	Temperature	13.0	degrees C
51	Compliance	E005	05/30/2024	Thallium, total	0.00057 U	mg/L
51	Compliance	E005	05/30/2024	Total Dissolved Solids	720	mg/L
51	Compliance	E005	05/30/2024	Turbidity, field	16.0	NTU

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

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
21/21R	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.003	0.006	Standard	No Exceedance
21/21R	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	31	0	CB around linear reg	0.0251	0.010	Standard	Exceedance
21/21R	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	31	0	CB around linear reg	0.317	2.0	Standard	No Exceedance
21/21R	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.001	0.004	Standard	No Exceedance
21/21R	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	32	0	CB around T-S line	1.81	2	Standard	No Exceedance
21/21R	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
21/21R	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	99.9	200	Standard	No Exceedance
21/21R	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	31	64	CB around T-S line	0.0015	0.1	Standard	No Exceedance
21/21R	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	31	70	CB around T-S line	0.001	0.006	Standard	No Exceedance
21/21R	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	32	8	CI around median	0.14	4.0	Standard	No Exceedance
21/21R	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	31	48	CB around T-S line	0.00153	0.0075	Standard	No Exceedance
21/21R	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	31	0	CB around linear reg	0.0226	0.04	Standard	No Exceedance
21/21R	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	31	97	CI around median	0.0002	0.002	Standard	No Exceedance
21/21R	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	31	3	CB around linear reg	0.00778	0.1	Standard	No Exceedance
21/21R	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	34	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
21/21R	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	24	0	CI around mean	0.893	5	Standard	No Exceedance
21/21R	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
21/21R	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	55.6	400	Standard	No Exceedance
21/21R	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.002	0.002	Standard	No Exceedance
21/21R	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	32	0	CB around T-S line	638	1,200	Standard	No Exceedance
22	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	34	92	CB around T-S line	0.001	0.006	Standard	No Exceedance
22	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	38	72	CI around median	0.001	0.010	Standard	No Exceedance
22	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	34	0	CI around median	0.063	2.0	Standard	No Exceedance
22	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.001	0.004	Standard	No Exceedance
22	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	39	0	CB around T-S line	2.82	2	Standard	Exceedance
22	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	34	8	CB around T-S line	0.00525	0.005	Standard	Exceedance
22	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	41	0	CB around T-S line	90.9	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
22	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.005	0.1	Standard	No Exceedance
22	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	34	8	CI around mean	0.00193	0.006	Standard	No Exceedance
22	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	34	5	CI around median	0.15	4.0	Standard	No Exceedance
22	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	34	97	CI around median	0.001	0.0075	Standard	No Exceedance
22	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	38	0	CB around T-S line	0.042	0.04	Standard	Exceedance
22	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
22	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	38	0	CB around T-S line	0.0615	0.1	Standard	No Exceedance
22	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	37	0	CI around median	7.6/7.7	6.5/9.0	Standard/Standard	No Exceedance
22	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	25	0	CI around mean	0.385	5	Standard	No Exceedance
22	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	34	6	CI around mean	0.0132	0.05	Standard	No Exceedance
22	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	41	0	CB around linear reg	94.4	400	Standard	No Exceedance
22	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	34	94	CB around T-S line	0.002	0.002	Standard	No Exceedance
22	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	41	0	CB around linear reg	584	1,200	Standard	No Exceedance
22D	UA	E005	Antimony, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.003	0.006	Standard	No Exceedance
22D	UA	E005	Arsenic, total	mg/L	09/17/19 - 05/30/24	18	11	CI around median	0.0012	0.010	Standard	No Exceedance
22D	UA	E005	Barium, total	mg/L	09/17/19 - 05/30/24	18	0	CB around T-S line	0.0678	2.0	Standard	No Exceedance
22D	UA	E005	Beryllium, total	mg/L	09/17/19 - 05/30/24	17	100	All ND - Last	0.001	0.004	Standard	No Exceedance
22D	UA	E005	Boron, total	mg/L	09/17/19 - 05/30/24	18	0	CB around linear reg	1.12	2	Standard	No Exceedance
22D	UA	E005	Cadmium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
22D	UA	E005	Chloride, total	mg/L	09/17/19 - 05/30/24	18	0	CB around linear reg	95.7	200	Standard	No Exceedance
22D	UA	E005	Chromium, total	mg/L	09/17/19 - 05/30/24	18	89	CB around T-S line	0.0015	0.1	Standard	No Exceedance
22D	UA	E005	Cobalt, total	mg/L	09/17/19 - 05/30/24	18	94	CI around median	0.001	0.006	Standard	No Exceedance
22D	UA	E005	Fluoride, total	mg/L	09/17/19 - 05/30/24	18	11	CI around median	0.11	4.0	Standard	No Exceedance
22D	UA	E005	Lead, total	mg/L	09/17/19 - 05/30/24	18	89	CI around median	0.001	0.0075	Standard	No Exceedance
22D	UA	E005	Lithium, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	0.0148	0.04	Standard	No Exceedance
22D	UA	E005	Mercury, total	mg/L	12/11/19 - 05/30/24	17	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
22D	UA	E005	Molybdenum, total	mg/L	09/17/19 - 05/30/24	18	6	CI around geomean	0.00659	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
22D	UA	E005	pH (field)	SU	09/17/19 - 05/30/24	21	0	CI around mean	7.2/7.3	6.5/9.0	Standard/Standard	No Exceedance
22D	UA	E005	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 05/30/24	15	0	CI around mean	0.728	5	Standard	No Exceedance
22D	UA	E005	Selenium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
22D	UA	E005	Sulfate, total	mg/L	09/17/19 - 05/30/24	18	0	CB around linear reg	86.4	400	Standard	No Exceedance
22D	UA	E005	Thallium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.002	0.002	Standard	No Exceedance
22D	UA	E005	Total Dissolved Solids	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	608	1,200	Standard	No Exceedance
23	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.003	0.006	Standard	No Exceedance
23	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	38	90	CB around T-S line	0.001	0.010	Standard	No Exceedance
23	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	34	0	CB around T-S line	0.037	2.0	Standard	No Exceedance
23	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.001	0.004	Standard	No Exceedance
23	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	39	0	CB around T-S line	8.3	2	Standard	Exceedance
23	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
23	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	41	1	CB around T-S line	50.6	200	Standard	No Exceedance
23	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.005	0.1	Standard	No Exceedance
23	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.001	0.006	Standard	No Exceedance
23	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	34	5	CI around median	0.15	4.0	Standard	No Exceedance
23	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
23	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	38	8	CI around median	0.0048	0.04	Standard	No Exceedance
23	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
23	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	38	0	CI around median	0.0147	0.1	Standard	No Exceedance
23	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	36	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
23	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	25	0	CI around mean	0.252	5	Standard	No Exceedance
23	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
23	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	41	0	CI around median	423	400	Standard	Exceedance
23	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.002	0.002	Standard	No Exceedance
23	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	41	0	CI around mean	887	1,200	Standard	No Exceedance
24/51	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
24/51	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	36	0	CI around mean	0.0204	0.010	Standard	Exceedance
24/51	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	32	0	CB around linear reg	0.11	2.0	Standard	No Exceedance
24/51	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.001	0.004	Standard	No Exceedance
24/51	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	37	0	CB around linear reg	1.27	2	Standard	No Exceedance
24/51	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
24/51	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	39	0	CB around linear reg	105	200	Standard	No Exceedance
24/51	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	32	76	CB around T-S line	0.00169	0.1	Standard	No Exceedance
24/51	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	32	74	CI around median	0.001	0.006	Standard	No Exceedance
24/51	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	32	6	CI around median	0.14	4.0	Standard	No Exceedance
24/51	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	32	62	CB around T-S line	0.001	0.0075	Standard	No Exceedance
24/51	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	36	0	CB around T-S line	0.024	0.04	Standard	No Exceedance
24/51	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
24/51	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	36	3	CI around mean	0.00976	0.1	Standard	No Exceedance
24/51	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	34	0	CB around linear reg	7.2/7.4	6.5/9.0	Standard/Standard	No Exceedance
24/51	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	24	0	CB around linear reg	1.24	5	Standard	No Exceedance
24/51	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
24/51	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	39	0	CB around linear reg	79.7	400	Standard	No Exceedance
24/51	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.002	0.002	Standard	No Exceedance
24/51	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	39	0	CI around mean	621	1,200	Standard	No Exceedance
27	UA	E005	Antimony, total	mg/L	09/12/18 - 05/30/24	21	100	All ND - Last	0.003	0.006	Standard	No Exceedance
27	UA	E005	Arsenic, total	mg/L	09/12/18 - 05/30/24	21	61	CI around median	0.001	0.010	Standard	No Exceedance
27	UA	E005	Barium, total	mg/L	09/12/18 - 05/30/24	21	0	CI around median	0.0838	2.0	Standard	No Exceedance
27	UA	E005	Beryllium, total	mg/L	09/12/18 - 05/30/24	21	100	All ND - Last	0.001	0.004	Standard	No Exceedance
27	UA	E005	Boron, total	mg/L	09/12/18 - 05/30/24	21	0	CB around linear reg	1.37	2	Standard	No Exceedance
27	UA	E005	Cadmium, total	mg/L	09/12/18 - 05/30/24	21	96	CI around median	0.001	0.005	Standard	No Exceedance
27	UA	E005	Chloride, total	mg/L	03/08/16 - 05/30/24	26	0	CB around linear reg	98.4	200	Standard	No Exceedance
27	UA	E005	Chromium, total	mg/L	09/12/18 - 05/30/24	21	78	CB around T-S line	0.0015	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
27	UA	E005	Cobalt, total	mg/L	09/12/18 - 05/30/24	21	9	CI around mean	0.002	0.006	Standard	No Exceedance
27	UA	E005	Fluoride, total	mg/L	09/12/18 - 05/30/24	21	4	CI around median	0.12	4.0	Standard	No Exceedance
27	UA	E005	Lead, total	mg/L	09/12/18 - 05/30/24	21	52	CI around median	0.001	0.0075	Standard	No Exceedance
27	UA	E005	Lithium, total	mg/L	09/12/18 - 05/30/24	21	0	CI around mean	0.0217	0.04	Standard	No Exceedance
27	UA	E005	Mercury, total	mg/L	09/12/18 - 05/30/24	21	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
27	UA	E005	Molybdenum, total	mg/L	09/12/18 - 05/30/24	21	24	CI around median	0.0044	0.1	Standard	No Exceedance
27	UA	E005	pH (field)	SU	03/08/16 - 05/30/24	26	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
27	UA	E005	Radium 226 + Radium 228, total	pCi/L	09/12/18 - 05/30/24	15	0	CI around geomean	0.23	5	Standard	No Exceedance
27	UA	E005	Selenium, total	mg/L	09/12/18 - 05/30/24	21	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
27	UA	E005	Sulfate, total	mg/L	03/08/16 - 05/30/24	26	0	CB around linear reg	88.5	400	Standard	No Exceedance
27	UA	E005	Thallium, total	mg/L	09/12/18 - 05/30/24	21	100	All ND - Last	0.002	0.002	Standard	No Exceedance
27	UA	E005	Total Dissolved Solids	mg/L	03/08/16 - 05/30/24	26	0	CI around median	642	1,200	Standard	No Exceedance
35	UA	E005	Antimony, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.003	0.006	Standard	No Exceedance
35	UA	E005	Arsenic, total	mg/L	12/09/15 - 05/30/24	33	76	CI around median	0.001	0.010	Standard	No Exceedance
35	UA	E005	Barium, total	mg/L	12/09/15 - 05/30/24	33	0	CI around mean	0.0407	2.0	Standard	No Exceedance
35	UA	E005	Beryllium, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.001	0.004	Standard	No Exceedance
35	UA	E005	Boron, total	mg/L	12/09/15 - 05/30/24	34	0	CB around linear reg	10.9	2	Standard	Exceedance
35	UA	E005	Cadmium, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
35	UA	E005	Chloride, total	mg/L	12/09/15 - 05/30/24	34	0	CB around linear reg	20.9	200	Standard	No Exceedance
35	UA	E005	Chromium, total	mg/L	12/09/15 - 05/30/24	33	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
35	UA	E005	Cobalt, total	mg/L	12/09/15 - 05/30/24	33	39	CI around median	0.001	0.006	Standard	No Exceedance
35	UA	E005	Fluoride, total	mg/L	12/09/15 - 05/30/24	34	3	CI around median	0.17	4.0	Standard	No Exceedance
35	UA	E005	Lead, total	mg/L	12/09/15 - 05/30/24	33	91	CI around median	0.001	0.0075	Standard	No Exceedance
35	UA	E005	Lithium, total	mg/L	12/09/15 - 05/30/24	33	0	CI around mean	0.0243	0.04	Standard	No Exceedance
35	UA	E005	Mercury, total	mg/L	12/09/15 - 05/30/24	32	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
35	UA	E005	Molybdenum, total	mg/L	12/09/15 - 05/30/24	33	0	CI around mean	0.0655	0.1	Standard	No Exceedance
35	UA	E005	pH (field)	SU	12/09/15 - 05/30/24	34	0	CB around linear reg	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
35	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 05/30/24	26	0	CI around median	0.31	5	Standard	No Exceedance
35	UA	E005	Selenium, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
35	UA	E005	Sulfate, total	mg/L	12/09/15 - 05/30/24	34	0	CB around linear reg	626	400	Standard	Exceedance
35	UA	E005	Thallium, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.002	0.002	Standard	No Exceedance
35	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 05/30/24	34	0	CB around linear reg	1,230	1,200	Standard	Exceedance
49	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.003	0.006	Standard	No Exceedance
49	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	33	97	CI around median	0.001	0.010	Standard	No Exceedance
49	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	33	0	CB around T-S line	0.0618	2.0	Standard	No Exceedance
49	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.001	0.004	Standard	No Exceedance
49	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	0.438	2	Standard	No Exceedance
49	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	33	27	CB around linear reg	0.00147	0.005	Standard	No Exceedance
49	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	34	0	CI around median	100	200	Standard	No Exceedance
49	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	33	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
49	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	33	0	CI around mean	0.00439	0.006	Standard	No Exceedance
49	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	34	3	CI around median	0.15	4.0	Standard	No Exceedance
49	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	33	91	CI around median	0.001	0.0075	Standard	No Exceedance
49	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	33	0	CI around mean	0.0239	0.04	Standard	No Exceedance
49	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
49	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	33	0	CB around T-S line	0.0215	0.1	Standard	No Exceedance
49	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	35	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
49	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	26	0	CI around mean	0.361	5	Standard	No Exceedance
49	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
49	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	68.8	400	Standard	No Exceedance
49	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.002	0.002	Standard	No Exceedance
49	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	573	1,200	Standard	No Exceedance
50	UA	E005	Antimony, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.003	0.006	Standard	No Exceedance
50	UA	E005	Arsenic, total	mg/L	09/17/19 - 05/30/24	18	89	CI around median	0.001	0.010	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
 845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 WEST ASH POND SYSTEM
 HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
50	UA	E005	Barium, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	0.0861	2.0	Standard	No Exceedance
50	UA	E005	Beryllium, total	mg/L	09/17/19 - 05/30/24	17	100	All ND - Last	0.001	0.004	Standard	No Exceedance
50	UA	E005	Boron, total	mg/L	09/17/19 - 05/30/24	18	0	CI around geomean	0.713	2	Standard	No Exceedance
50	UA	E005	Cadmium, total	mg/L	09/17/19 - 05/30/24	18	6	CI around median	0.0012	0.005	Standard	No Exceedance
50	UA	E005	Chloride, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	87	200	Standard	No Exceedance
50	UA	E005	Chromium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.005	0.1	Standard	No Exceedance
50	UA	E005	Cobalt, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	0.00416	0.006	Standard	No Exceedance
50	UA	E005	Fluoride, total	mg/L	09/17/19 - 05/30/24	18	22	CB around T-S line	0.115	4.0	Standard	No Exceedance
50	UA	E005	Lead, total	mg/L	09/17/19 - 05/30/24	18	94	CI around median	0.001	0.0075	Standard	No Exceedance
50	UA	E005	Lithium, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	0.0197	0.04	Standard	No Exceedance
50	UA	E005	Mercury, total	mg/L	12/11/19 - 05/30/24	17	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
50	UA	E005	Molybdenum, total	mg/L	09/17/19 - 05/30/24	18	0	CB around T-S line	0.0348	0.1	Standard	No Exceedance
50	UA	E005	pH (field)	SU	09/17/19 - 05/30/24	21	0	CB around linear reg	7.3/7.7	6.5/9.0	Standard/Standard	No Exceedance
50	UA	E005	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 05/30/24	14	0	CI around mean	0.614	5	Standard	No Exceedance
50	UA	E005	Selenium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
50	UA	E005	Sulfate, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	88.6	400	Standard	No Exceedance
50	UA	E005	Thallium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.002	0.002	Standard	No Exceedance
50	UA	E005	Total Dissolved Solids	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	610	1,200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Notes:

Compliance Result:

No Exceedance: the statistical result did not exceed the GWPS.

Exceedance: The statistical result exceeded the GWPS.

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 linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

GWPS = Groundwater Protection Standard

GWPS Source:

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

Background = background concentration (see cover page for additional information)

FIGURES



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

0 200 400
Feet

MONITORING WELL LOCATION
MAP

WEST ASH POND SYSTEM
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
GROUNDWATER ELEVATION DATA
QUARTER 2, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
21R	Compliance	05/30/2024	4.68	447.54
22	Compliance	05/30/2024	17.36	447.26
22D	Compliance	05/30/2024	18.02	447.58
23	Compliance	05/30/2024	16.57	446.99
27	Compliance	05/30/2024	2.92	447.83
32	Background	05/30/2024	3.89	447.66
34	Background	05/30/2024	5.27	444.46
35	Compliance	05/30/2024	7.01	447.88
49	Compliance	05/30/2024	20.39	447.88
50	Compliance	05/30/2024	17.01	447.10
51	Compliance	05/30/2024	17.33	447.55

Notes:
BMP = below measuring point
NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 2, 2024**

ANALYTICAL REPORT

PREPARED FOR

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

Generated 06/19/24 11:21:03

JOB DESCRIPTION

HEN-24Q2
HEN_845_804

JOB NUMBER

500-251407-4

Job Notes

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

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Authorization



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Authorized for release by
Dirk Nelson, Project Management Assistant II
Dirk.Nelson@et.eurofinsus.com
(708)534-5200

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project: HEN-24Q2

Job ID: 500-251407-4

Job ID: 500-251407-4

Eurofins Chicago

Job Narrative 500-251407-4

Receipt

The samples were received on 05/31/24 09:21. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.8° C, 3.8° C, 4.2° C and 5.4° C.

Receipt Exceptions

The following samples (MS/MSD and FD) were submitted for analysis; however, it was not listed on the Chain-of-Custody. HEN_21R (500-251407-1[MS]), HEN_21R (500-251407-1[MSD]), HEN_49 (500-251407-9[MS]), HEN_49 (500-251407-9[MSD]) and HEN_35_FD (500-251407-12)

Method Field Sampling: Per field sampler: Field Conductivity for the following samples was recorded on the field forms in ms (mmhos) instead of the usual us (umhos). Results have been converted to umhos to maintain consistency in reporting. HEN_27 (500-251407-5), HEN_32 (500-251407-6), HEN_35 (500-251407-8), HEN_49 (500-251407-9), HEN_50 (500-251407-10) and HEN_35_FD (500-251407-12)

Metals

Method 6020B: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 500-771803 and analytical batch 500-772584. The associated laboratory control sample (LCS) met acceptance criteria.

Method 6020B: The initial low level calibration verification (ICVL) result for batch 500-772584 was above the upper control limit. The affected analyte is: Beryllium. Sample results were below the reporting limit, and have been reported as qualified data.

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

General Chemistry

Method 300.0: The method blank for analytical batch 500-771143 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 500-772025 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-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_21R

Lab Sample ID: 500-251407-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.029		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total
Arsenic	0.022		0.0010	0.00023	mg/L	1		6020B	Recoverable
Barium	0.28		0.0025	0.00073	mg/L	1		6020B	Total
Boron	2.3	B	0.25	0.064	mg/L	5		6020B	Recoverable
Calcium	140		0.20	0.044	mg/L	1		6020B	Total
Chromium	0.0023	J	0.0050	0.0011	mg/L	1		6020B	Recoverable
Cobalt	0.00090	J	0.0010	0.00040	mg/L	1		6020B	Total
Lead	0.0016		0.00050	0.00019	mg/L	1		6020B	Recoverable
Magnesium	43		0.20	0.049	mg/L	1		6020B	Total
Molybdenum	0.0095		0.0050	0.0025	mg/L	1		6020B	Recoverable
Potassium	3.4		0.50	0.11	mg/L	1		6020B	Total
Sodium	59		1.0	0.39	mg/L	5		6020B	Recoverable
Chloride	94		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	88		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	350		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	680		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.16		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	4.58				ft	1		Field Sampling	Total/NA
Field pH	7.63				SU	1		Field Sampling	Total/NA
Field Temperature	17.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-123.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.89				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1120				umhos/cm	1		Field Sampling	Total/NA
Turbidity	51.92				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_22

Lab Sample ID: 500-251407-2

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	0.00076	J	0.0010	0.00023	mg/L	1		6020B	Recoverable
Barium	0.058		0.0025	0.00073	mg/L	1		6020B	Total
Boron	3.0	B	0.25	0.064	mg/L	5		6020B	Recoverable
Cadmium	0.0049		0.00050	0.00017	mg/L	1		6020B	Total
Calcium	99		0.20	0.044	mg/L	1		6020B	Recoverable
Cobalt	0.0019		0.0010	0.00040	mg/L	1		6020B	Total
Lead	0.00040	J	0.00050	0.00019	mg/L	1		6020B	Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNERIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_22 (Continued)

Lab Sample ID: 500-251407-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Magnesium	39		0.20	0.049	mg/L	1			6020B	Total
										Recoverable
Molybdenum	0.072		0.0050	0.0025	mg/L	1			6020B	Total
										Recoverable
Potassium	12		0.50	0.11	mg/L	1			6020B	Total
										Recoverable
Selenium	0.011		0.0025	0.00098	mg/L	1			6020B	Total
										Recoverable
Sodium	62		1.0	0.39	mg/L	5			6020B	Total
										Recoverable
Chloride	93		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	260		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	630		10	4.3	mg/L	1			SM 2540C	Total/NA
Fluoride	0.19		0.10	0.056	mg/L	1			SM 4500 F C	Total/NA
Depth to Water (ft from MP)	17.36				ft	1			Field Sampling	Total/NA
Field pH	7.66				SU	1			Field Sampling	Total/NA
Field Temperature	15.7				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	35.7				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	-0.13				mg/L	1			Field Sampling	Total/NA
Specific Conductance	992				umhos/cm	1			Field Sampling	Total/NA
Turbidity	0.81				NTU	1			Field Sampling	Total/NA

Client Sample ID: HEN_22&D

Lab Sample ID: 500-251407-3

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	0.00099	J	0.0010	0.00023	mg/L	1			6020B	Total
										Recoverable
Barium	0.069		0.0025	0.00073	mg/L	1			6020B	Total
										Recoverable
Boron	1.5	B	0.25	0.064	mg/L	5			6020B	Total
										Recoverable
Calcium	130		0.20	0.044	mg/L	1			6020B	Total
										Recoverable
Lead	0.00024	J	0.00050	0.00019	mg/L	1			6020B	Total
										Recoverable
Magnesium	45		0.20	0.049	mg/L	1			6020B	Total
										Recoverable
Molybdenum	0.0065		0.0050	0.0025	mg/L	1			6020B	Total
										Recoverable
Potassium	3.5		0.50	0.11	mg/L	1			6020B	Total
										Recoverable
Sodium	54		1.0	0.39	mg/L	5			6020B	Total
										Recoverable
Chloride	100		5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	93		5.0	1.0	mg/L	5			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	330		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	660		10	4.3	mg/L	1			SM 2540C	Total/NA
Fluoride	0.12		0.10	0.056	mg/L	1			SM 4500 F C	Total/NA
Depth to Water (ft from MP)	17.93				ft	1			Field Sampling	Total/NA
Field pH	7.35				SU	1			Field Sampling	Total/NA
Field Temperature	16.0				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	-120.2				millivolts	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-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_22&D (Continued)

Lab Sample ID: 500-251407-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen, Dissolved	0.28				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1084				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.82				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_23

Lab Sample ID: 500-251407-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0060		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total
Arsenic	0.0011		0.0010	0.00023	mg/L	1		6020B	Recoverable Total
Barium	0.044		0.0025	0.00073	mg/L	1		6020B	Recoverable Total
Boron	8.9	B	0.25	0.064	mg/L	5		6020B	Recoverable Total
Cadmium	0.00029	J	0.00050	0.00017	mg/L	1		6020B	Recoverable Total
Calcium	120		0.20	0.044	mg/L	1		6020B	Recoverable Total
Cobalt	0.00057	J	0.0010	0.00040	mg/L	1		6020B	Recoverable Total
Lead	0.00024	J	0.00050	0.00019	mg/L	1		6020B	Recoverable Total
Magnesium	85		0.20	0.049	mg/L	1		6020B	Recoverable Total
Molybdenum	0.019		0.0050	0.0025	mg/L	1		6020B	Recoverable Total
Potassium	3.4		0.50	0.11	mg/L	1		6020B	Recoverable Total
Sodium	50		1.0	0.39	mg/L	5		6020B	Recoverable Total
Chloride	56		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	450		50	10	mg/L	50		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	170		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	960		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.17		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	15.53				ft	1		Field Sampling	Total/NA
Field pH	7.56				SU	1		Field Sampling	Total/NA
Field Temperature	13.3				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-101.3				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.13				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1223				umhos/cm	1		Field Sampling	Total/NA
Turbidity	1.37				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_27

Lab Sample ID: 500-251407-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.026		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total
Arsenic	0.00074	J	0.0010	0.00023	mg/L	1		6020B	Recoverable Total
Barium	0.082		0.0025	0.00073	mg/L	1		6020B	Recoverable Total
Boron	2.3	B	0.25	0.064	mg/L	5		6020B	Recoverable Total

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_27 (Continued)

Lab Sample ID: 500-251407-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.00037	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	130		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0027		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.00094		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	39		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.0043	J	0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	3.9		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	58		1.0	0.39	mg/L	5		6020B	Total Recoverable
Chloride	98		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	330		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	730		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.16		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	3.01				ft	1		Field Sampling	Total/NA
Field pH	7.28				SU	1		Field Sampling	Total/NA
Field Temperature	13.6				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	3.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.07				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1040				umhos/cm	1		Field Sampling	Total/NA
Turbidity	26.98				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_32

Lab Sample ID: 500-251407-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.0060		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00047	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.045		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.16	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00026	J	0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	100		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0020	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.0010		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.0014		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	40		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	3.1		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	44		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-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_32 (Continued)

Lab Sample ID: 500-251407-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.00017	J	0.00020	0.000076	mg/L	1		7470A	Total/NA
Chloride	82		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	56		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	270		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	560		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.14		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	4.01				ft	1		Field Sampling	Total/NA
Field pH	7.24				SU	1		Field Sampling	Total/NA
Field Temperature	11.7				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	195.7				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.03				mg/L	1		Field Sampling	Total/NA
Specific Conductance	881				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.91				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_34

Lab Sample ID: 500-251407-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.016		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00059	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.11		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.14	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Calcium	170		0.20	0.044	mg/L	1		6020B	Total Recoverable
Chromium	0.0014	J	0.0050	0.0011	mg/L	1		6020B	Total Recoverable
Cobalt	0.00043	J	0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Lead	0.0010		0.00050	0.00019	mg/L	1		6020B	Total Recoverable
Magnesium	48		0.20	0.049	mg/L	1		6020B	Total Recoverable
Potassium	0.55		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	56		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	70		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	51		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	510		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	830		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.17		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	5.27				ft	1		Field Sampling	Total/NA
Field pH	7.17				SU	1		Field Sampling	Total/NA
Field Temperature	12.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	-89.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	-0.16				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1222				umhos/cm	1		Field Sampling	Total/NA
Turbidity	6.30				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-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_35

Lab Sample ID: 500-251407-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.029		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total Recoverable
Arsenic	0.0011		0.0010	0.00023	mg/L	1			6020B	Total Recoverable
Barium	0.053		0.0025	0.00073	mg/L	1			6020B	Total Recoverable
Boron	14	B	0.50	0.13	mg/L	10			6020B	Total Recoverable
Cadmium	0.00040	J	0.00050	0.00017	mg/L	1			6020B	Total Recoverable
Calcium	420		0.20	0.044	mg/L	1			6020B	Total Recoverable
Cobalt	0.0011		0.0010	0.00040	mg/L	1			6020B	Total Recoverable
Magnesium	52		0.20	0.049	mg/L	1			6020B	Total Recoverable
Molybdenum	0.059		0.0050	0.0025	mg/L	1			6020B	Total Recoverable
Potassium	14		0.50	0.11	mg/L	1			6020B	Total Recoverable
Sodium	24		2.0	0.77	mg/L	10			6020B	Total Recoverable
Chloride	14		5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	1000		50	10	mg/L	50			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	230		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	1800		10	4.3	mg/L	1			SM 2540C	Total/NA
Fluoride	0.16		0.10	0.056	mg/L	1			SM 4500 F C	Total/NA
Depth to Water (ft from MP)	7.07				ft	1			Field Sampling	Total/NA
Field pH	7.01				SU	1			Field Sampling	Total/NA
Field Temperature	15.0				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	107.2				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1			Field Sampling	Total/NA
Specific Conductance	1949				umhos/cm	1			Field Sampling	Total/NA
Turbidity	34.01				NTU	1			Field Sampling	Total/NA

Client Sample ID: HEN_49

Lab Sample ID: 500-251407-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.026		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total Recoverable
Barium	0.060	F1	0.0025	0.00073	mg/L	1			6020B	Total Recoverable
Boron	0.72	F1 B	0.050	0.013	mg/L	1			6020B	Total Recoverable
Cadmium	0.0013	F1	0.00050	0.00017	mg/L	1			6020B	Total Recoverable
Calcium	120		0.20	0.044	mg/L	1			6020B	Total Recoverable
Cobalt	0.0036	F1	0.0010	0.00040	mg/L	1			6020B	Total Recoverable
Magnesium	38	F1	0.20	0.049	mg/L	1			6020B	Total Recoverable
Molybdenum	0.022	F1	0.0050	0.0025	mg/L	1			6020B	Total Recoverable
Potassium	12	F1	0.50	0.11	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-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_49 (Continued)

Lab Sample ID: 500-251407-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	62		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	110		5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	81		5.0	1.0	mg/L	5		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	310		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	630		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.17		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	20.40				ft	1		Field Sampling	Total/NA
Field pH	7.18				SU	1		Field Sampling	Total/NA
Field Temperature	16.2				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	49.1				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.04				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1031				umhos/cm	1		Field Sampling	Total/NA
Turbidity	75.12				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_50

Lab Sample ID: 500-251407-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lithium	0.033		0.0050	0.0020	mg/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	0.00050	J	0.0010	0.00023	mg/L	1		6020B	Total Recoverable
Barium	0.093		0.0025	0.00073	mg/L	1		6020B	Total Recoverable
Boron	0.76	B	0.050	0.013	mg/L	1		6020B	Total Recoverable
Cadmium	0.00052		0.00050	0.00017	mg/L	1		6020B	Total Recoverable
Calcium	140		0.20	0.044	mg/L	1		6020B	Total Recoverable
Cobalt	0.0024		0.0010	0.00040	mg/L	1		6020B	Total Recoverable
Magnesium	36		0.20	0.049	mg/L	1		6020B	Total Recoverable
Molybdenum	0.035		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	10		0.50	0.11	mg/L	1		6020B	Total Recoverable
Selenium	0.0017	J	0.0025	0.00098	mg/L	1		6020B	Total Recoverable
Sodium	66		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	71		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	310		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	720		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.12		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	17.07				ft	1		Field Sampling	Total/NA
Field pH	7.48				SU	1		Field Sampling	Total/NA
Field Temperature	14.9				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	150.9				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	1.01				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1035				umhos/cm	1		Field Sampling	Total/NA
Turbidity	0.89				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-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_51

Lab Sample ID: 500-251407-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.027		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total
Arsenic	0.021		0.0010	0.00023	mg/L	1			6020B	Recoverable
Barium	0.10		0.0025	0.00073	mg/L	1			6020B	Total
Boron	1.5	B	0.050	0.013	mg/L	1			6020B	Recoverable
Calcium	120		0.20	0.044	mg/L	1			6020B	Total
Chromium	0.0014	J	0.0050	0.0011	mg/L	1			6020B	Recoverable
Cobalt	0.00077	J	0.0010	0.00040	mg/L	1			6020B	Total
Lead	0.0012		0.00050	0.00019	mg/L	1			6020B	Recoverable
Magnesium	41		0.20	0.049	mg/L	1			6020B	Total
Molybdenum	0.0086		0.0050	0.0025	mg/L	1			6020B	Recoverable
Potassium	7.0		0.50	0.11	mg/L	1			6020B	Total
Sodium	65		0.20	0.077	mg/L	1			6020B	Recoverable
Chloride	100	B	5.0	0.58	mg/L	5			300.0	Total/NA
Sulfate	89		5.0	1.0	mg/L	5			300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	330		5.0	3.7	mg/L	1			SM 2320B	Total/NA
Total Dissolved Solids	720		10	4.3	mg/L	1			SM 2540C	Total/NA
Fluoride	0.15		0.10	0.056	mg/L	1			SM 4500 F C	Total/NA
Depth to Water (ft from MP)	17.04				ft	1			Field Sampling	Total/NA
Field pH	7.48				SU	1			Field Sampling	Total/NA
Field Temperature	13.0				Degrees C	1			Field Sampling	Total/NA
Oxidation Reduction Potential	-145.3				millivolts	1			Field Sampling	Total/NA
Oxygen, Dissolved	-0.03				mg/L	1			Field Sampling	Total/NA
Specific Conductance	1086				umhos/cm	1			Field Sampling	Total/NA
Turbidity	16.02				NTU	1			Field Sampling	Total/NA

Client Sample ID: HEN_35_FD

Lab Sample ID: 500-251407-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Lithium	0.029		0.0050	0.0020	mg/L	1			200.7 Rev 4.4	Total
Arsenic	0.00091	J	0.0010	0.00023	mg/L	1			6020B	Recoverable
Barium	0.051		0.0025	0.00073	mg/L	1			6020B	Total
Boron	14	B	0.50	0.13	mg/L	10			6020B	Recoverable
Cadmium	0.00034	J	0.00050	0.00017	mg/L	1			6020B	Total
Calcium	420		0.20	0.044	mg/L	1			6020B	Recoverable
Cobalt	0.0010		0.0010	0.00040	mg/L	1			6020B	Total
Magnesium	51		0.20	0.049	mg/L	1			6020B	Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
JEN ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_35_FD (Continued)

Lab Sample ID: 500-251407-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Molybdenum	0.059		0.0050	0.0025	mg/L	1		6020B	Total Recoverable
Potassium	14		0.50	0.11	mg/L	1		6020B	Total Recoverable
Sodium	24		0.20	0.077	mg/L	1		6020B	Total Recoverable
Chloride	14	B	5.0	0.58	mg/L	5		300.0	Total/NA
Sulfate	1100		100	21	mg/L	100		300.0	Total/NA
Bicarbonate Alkalinity as CaCO3	230		5.0	3.7	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1800		10	4.3	mg/L	1		SM 2540C	Total/NA
Fluoride	0.16		0.10	0.056	mg/L	1		SM 4500 F C	Total/NA
Depth to Water (ft from MP)	7.07				ft	1		Field Sampling	Total/NA
Field pH	7.01				SU	1		Field Sampling	Total/NA
Field Temperature	15.0				Degrees C	1		Field Sampling	Total/NA
Oxidation Reduction Potential	107.2				millivolts	1		Field Sampling	Total/NA
Oxygen, Dissolved	0.01				mg/L	1		Field Sampling	Total/NA
Specific Conductance	1949				umhos/cm	1		Field Sampling	Total/NA
Turbidity	34.01				NTU	1		Field Sampling	Total/NA

Client Sample ID: HEN_YSG_ILRIVER

Lab Sample ID: 500-251407-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Depth to Water (ft from MP)	19.85				ft	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 590-251407-4
SDG: HEN_845_804

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-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-251407-4
SDG: HEN_845_804

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-251407-1	HEN_21R	Water	05/30/24 10:05	05/31/24 09:21
500-251407-2	HEN_22	Water	05/30/24 13:50	05/31/24 09:21
500-251407-3	HEN_22&D	Water	05/30/24 12:50	05/31/24 09:21
500-251407-4	HEN_23	Water	05/30/24 11:55	05/31/24 09:21
500-251407-5	HEN_27	Water	05/30/24 10:20	05/31/24 09:21
500-251407-6	HEN_32	Water	05/30/24 09:15	05/31/24 09:21
500-251407-7	HEN_34	Water	05/30/24 09:20	05/31/24 09:21
500-251407-8	HEN_35	Water	05/30/24 11:30	05/31/24 09:21
500-251407-9	HEN_49	Water	05/30/24 14:00	05/31/24 09:21
500-251407-10	HEN_50	Water	05/30/24 12:35	05/31/24 09:21
500-251407-11	HEN_51	Water	05/30/24 11:10	05/31/24 09:21
500-251407-12	HEN_35_FD	Water	05/30/24 11:30	05/31/24 09:21
500-251407-19	HEN_YSG_ILRIVER	Water	04/15/24 11:45	05/31/24 09:21

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_21R

Lab Sample ID: 500-251407-1

Date Collected: 05/30/24 10:05

Matrix: Water

Date Received: 05/31/24 09:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.029		0.0050	0.0020	mg/L		06/05/24 10:10	06/11/24 16:11	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		06/10/24 10:06	06/12/24 16:42	1
Arsenic	0.022		0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 16:42	1
Barium	0.28		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 16:42	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 15:03	1
Boron	2.3	B	0.25	0.064	mg/L		06/10/24 10:06	06/13/24 14:05	5
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 16:42	1
Calcium	140		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 16:42	1
Chromium	0.0023	J	0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 16:42	1
Cobalt	0.00090	J	0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 15:03	1
Lead	0.0016		0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 16:42	1
Magnesium	43		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 16:42	1
Molybdenum	0.0095		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 16:42	1
Potassium	3.4		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 16:42	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 16:42	1
Sodium	59		1.0	0.39	mg/L		06/10/24 10:06	06/13/24 14:05	5
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 16:42	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		06/10/24 14:20	06/11/24 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	94		5.0	0.58	mg/L			06/04/24 19:08	5
Sulfate (EPA 300.0)	88		5.0	1.0	mg/L			06/04/24 19:08	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	350		5.0	3.7	mg/L			06/03/24 11:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 11:01	1
Total Dissolved Solids (SM 2540C)	680		10	4.3	mg/L			06/03/24 21:59	1
Fluoride (SM 4500 F C)	0.16		0.10	0.056	mg/L			06/06/24 13:32	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	4.58				ft			05/30/24 10:05	1
Field pH	7.63				SU			05/30/24 10:05	1
Field Temperature	17.7				Degrees C			05/30/24 10:05	1
Oxidation Reduction Potential	-123.7				millivolts			05/30/24 10:05	1
Oxygen, Dissolved	1.89				mg/L			05/30/24 10:05	1
Specific Conductance	1120				umhos/cm			05/30/24 10:05	1
Turbidity	51.92				NTU			05/30/24 10:05	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_22

Date Collected: 05/30/24 13:50

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-2

Matrix: Water

Method: EPA 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		06/05/24 10:10	06/11/24 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/10/24 10:06	06/12/24 16:54	1
Arsenic	0.00076	J	0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 16:54	1
Barium	0.058		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 16:54	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 15:21	1
Boron	3.0	B	0.25	0.064	mg/L		06/10/24 10:06	06/13/24 14:16	5
Cadmium	0.0049		0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 16:54	1
Calcium	99		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 16:54	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 16:54	1
Cobalt	0.0019		0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 15:21	1
Lead	0.00040	J	0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 16:54	1
Magnesium	39		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 16:54	1
Molybdenum	0.072		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 16:54	1
Potassium	12		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 16:54	1
Selenium	0.011		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 16:54	1
Sodium	62		1.0	0.39	mg/L		06/10/24 10:06	06/13/24 14:16	5
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 16:54	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		06/10/24 14:20	06/11/24 09:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	93		5.0	0.58	mg/L			06/04/24 21:13	5
Sulfate (EPA 300.0)	110		5.0	1.0	mg/L			06/04/24 21:13	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	260		5.0	3.7	mg/L			06/03/24 11:19	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 11:19	1
Total Dissolved Solids (SM 2540C)	630		10	4.3	mg/L			06/05/24 01:39	1
Fluoride (SM 4500 F C)	0.19		0.10	0.056	mg/L			06/06/24 14:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	17.36				ft			05/30/24 13:50	1
Field pH	7.66				SU			05/30/24 13:50	1
Field Temperature	15.7				Degrees C			05/30/24 13:50	1
Oxidation Reduction Potential	35.7				millivolts			05/30/24 13:50	1
Oxygen, Dissolved	-0.13				mg/L			05/30/24 13:50	1
Specific Conductance	992				umhos/cm			05/30/24 13:50	1
Turbidity	0.81				NTU			05/30/24 13:50	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_22&D

Lab Sample ID: 500-251407-3

Date Collected: 05/30/24 12:50

Matrix: Water

Date Received: 05/31/24 09:21

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		06/05/24 10:10	06/11/24 16:40	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		06/10/24 10:06	06/12/24 17:01	1
Arsenic	0.00099	J	0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 17:01	1
Barium	0.069		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 17:01	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 15:24	1
Boron	1.5	B	0.25	0.064	mg/L		06/10/24 10:06	06/13/24 14:23	5
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 17:01	1
Calcium	130		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 17:01	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 17:01	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 15:24	1
Lead	0.00024	J	0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 17:01	1
Magnesium	45		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 17:01	1
Molybdenum	0.0065		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 17:01	1
Potassium	3.5		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 17:01	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 17:01	1
Sodium	54		1.0	0.39	mg/L		06/10/24 10:06	06/13/24 14:23	5
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 17:01	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		06/10/24 14:20	06/11/24 09:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	100		5.0	0.58	mg/L			06/04/24 21:44	5
Sulfate (EPA 300.0)	93		5.0	1.0	mg/L			06/04/24 21:44	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	330		5.0	3.7	mg/L			06/03/24 11:29	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 11:29	1
Total Dissolved Solids (SM 2540C)	660		10	4.3	mg/L			06/05/24 01:41	1
Fluoride (SM 4500 F C)	0.12		0.10	0.056	mg/L			06/06/24 14:41	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	17.93				ft			05/30/24 12:50	1
Field pH	7.35				SU			05/30/24 12:50	1
Field Temperature	16.0				Degrees C			05/30/24 12:50	1
Oxidation Reduction Potential	-120.2				millivolts			05/30/24 12:50	1
Oxygen, Dissolved	0.28				mg/L			05/30/24 12:50	1
Specific Conductance	1084				umhos/cm			05/30/24 12:50	1
Turbidity	6.82				NTU			05/30/24 12:50	1

Eurofins Chicago

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_23

Date Collected: 05/30/24 11:55

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0060		0.0050	0.0020	mg/L		06/05/24 10:10	06/11/24 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/10/24 10:06	06/12/24 17:03	1
Arsenic	0.0011		0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 17:03	1
Barium	0.044		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 17:03	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 15:26	1
Boron	8.9	B	0.25	0.064	mg/L		06/10/24 10:06	06/13/24 14:25	5
Cadmium	0.00029	J	0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 17:03	1
Calcium	120		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 17:03	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 17:03	1
Cobalt	0.00057	J	0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 15:26	1
Lead	0.00024	J	0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 17:03	1
Magnesium	85		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 17:03	1
Molybdenum	0.019		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 17:03	1
Potassium	3.4		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 17:03	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 17:03	1
Sodium	50		1.0	0.39	mg/L		06/10/24 10:06	06/13/24 14:25	5
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 17:03	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		06/10/24 14:20	06/11/24 09:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	56		5.0	0.58	mg/L			06/04/24 22:47	5
Sulfate (EPA 300.0)	450		50	10	mg/L			06/06/24 00:36	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	170		5.0	3.7	mg/L			06/03/24 11:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 11:41	1
Total Dissolved Solids (SM 2540C)	960		10	4.3	mg/L			06/05/24 01:44	1
Fluoride (SM 4500 F C)	0.17		0.10	0.056	mg/L			06/06/24 14:45	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	15.53				ft			05/30/24 11:55	1
Field pH	7.56				SU			05/30/24 11:55	1
Field Temperature	13.3				Degrees C			05/30/24 11:55	1
Oxidation Reduction Potential	-101.3				millivolts			05/30/24 11:55	1
Oxygen, Dissolved	-0.13				mg/L			05/30/24 11:55	1
Specific Conductance	1223				umhos/cm			05/30/24 11:55	1
Turbidity	1.37				NTU			05/30/24 11:55	1

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Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_27

Date Collected: 05/30/24 10:20

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.026		0.0050	0.0020	mg/L		06/05/24 10:10	06/11/24 16:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/10/24 10:06	06/12/24 17:14	1
Arsenic	0.00074	J	0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 17:14	1
Barium	0.082		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 17:14	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 15:33	1
Boron	2.3	B	0.25	0.064	mg/L		06/10/24 10:06	06/13/24 14:28	5
Cadmium	0.00037	J	0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 17:14	1
Calcium	130		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 17:14	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 17:14	1
Cobalt	0.0027		0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 15:33	1
Lead	0.00094		0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 17:14	1
Magnesium	39		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 17:14	1
Molybdenum	0.0043	J	0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 17:14	1
Potassium	3.9		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 17:14	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 17:14	1
Sodium	58		1.0	0.39	mg/L		06/10/24 10:06	06/13/24 14:28	5
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 17:14	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/10/24 14:20	06/11/24 10:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	98		5.0	0.58	mg/L			06/04/24 23:49	5
Sulfate (EPA 300.0)	110		5.0	1.0	mg/L			06/04/24 23:49	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	330		5.0	3.7	mg/L			06/03/24 11:50	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 11:50	1
Total Dissolved Solids (SM 2540C)	730		10	4.3	mg/L			06/05/24 01:46	1
Fluoride (SM 4500 F C)	0.16		0.10	0.056	mg/L			06/13/24 14:46	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	3.01				ft			05/30/24 10:20	1
Field pH	7.28				SU			05/30/24 10:20	1
Field Temperature	13.6				Degrees C			05/30/24 10:20	1
Oxidation Reduction Potential	3.1				millivolts			05/30/24 10:20	1
Oxygen, Dissolved	0.07				mg/L			05/30/24 10:20	1
Specific Conductance	1040				umhos/cm			05/30/24 10:20	1
Turbidity	26.98				NTU			05/30/24 10:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_32

Date Collected: 05/30/24 09:15

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0060		0.0050	0.0020	mg/L		06/05/24 10:10	06/11/24 16:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/10/24 10:06	06/12/24 17:16	1
Arsenic	0.00047	J	0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 17:16	1
Barium	0.045		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 17:16	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 14:30	1
Boron	0.16	B	0.050	0.013	mg/L		06/10/24 10:06	06/13/24 14:30	1
Cadmium	0.00026	J	0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 17:16	1
Calcium	100		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 17:16	1
Chromium	0.0020	J	0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 17:16	1
Cobalt	0.0010		0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 14:30	1
Lead	0.0014		0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 17:16	1
Magnesium	40		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 17:16	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 17:16	1
Potassium	3.1		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 17:16	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 17:16	1
Sodium	44		0.20	0.077	mg/L		06/10/24 10:06	06/13/24 14:30	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 17:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.00017	J	0.00020	0.000076	mg/L		06/10/24 14:20	06/11/24 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	82		5.0	0.58	mg/L			06/05/24 00:21	5
Sulfate (EPA 300.0)	56		5.0	1.0	mg/L			06/05/24 00:21	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	270		5.0	3.7	mg/L			06/03/24 11:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 11:59	1
Total Dissolved Solids (SM 2540C)	560		10	4.3	mg/L			06/05/24 01:49	1
Fluoride (SM 4500 F C)	0.14		0.10	0.056	mg/L			06/13/24 14:51	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	4.01				ft			05/30/24 09:15	1
Field pH	7.24				SU			05/30/24 09:15	1
Field Temperature	11.7				Degrees C			05/30/24 09:15	1
Oxidation Reduction Potential	195.7				millivolts			05/30/24 09:15	1
Oxygen, Dissolved	-0.03				mg/L			05/30/24 09:15	1
Specific Conductance	881				umhos/cm			05/30/24 09:15	1
Turbidity	6.91				NTU			05/30/24 09:15	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_34

Lab Sample ID: 500-251407-7

Date Collected: 05/30/24 09:20

Matrix: Water

Date Received: 05/31/24 09:21

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		06/05/24 10:10	06/11/24 16:54	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		06/10/24 10:06	06/12/24 17:19	1
Arsenic	0.00059	J	0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 17:19	1
Barium	0.11		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 17:19	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 14:32	1
Boron	0.14	B	0.050	0.013	mg/L		06/10/24 10:06	06/13/24 14:32	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 17:19	1
Calcium	170		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 17:19	1
Chromium	0.0014	J	0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 17:19	1
Cobalt	0.00043	J	0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 14:32	1
Lead	0.0010		0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 17:19	1
Magnesium	48		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 17:19	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 17:19	1
Potassium	0.55		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 17:19	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 17:19	1
Sodium	56		0.20	0.077	mg/L		06/10/24 10:06	06/13/24 14:32	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 17:19	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/10/24 14:20	06/11/24 10:04	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			06/05/24 00:52	5
Sulfate (EPA 300.0)	51		5.0	1.0	mg/L			06/05/24 00:52	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	510		5.0	3.7	mg/L			06/03/24 12:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 12:08	1
Total Dissolved Solids (SM 2540C)	830		10	4.3	mg/L			06/05/24 01:52	1
Fluoride (SM 4500 F C)	0.17		0.10	0.056	mg/L			06/13/24 14:55	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	5.27				ft			05/30/24 09:20	1
Field pH	7.17				SU			05/30/24 09:20	1
Field Temperature	12.0				Degrees C			05/30/24 09:20	1
Oxidation Reduction Potential	-89.1				millivolts			05/30/24 09:20	1
Oxygen, Dissolved	-0.16				mg/L			05/30/24 09:20	1
Specific Conductance	1222				umhos/cm			05/30/24 09:20	1
Turbidity	6.30				NTU			05/30/24 09:20	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_35

Date Collected: 05/30/24 11:30

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.029		0.0050	0.0020	mg/L		06/05/24 10:10	06/11/24 16:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/10/24 10:06	06/12/24 17:21	1
Arsenic	0.0011		0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 17:21	1
Barium	0.053		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 17:21	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 15:35	1
Boron	14	B	0.50	0.13	mg/L		06/10/24 10:06	06/13/24 14:34	10
Cadmium	0.00040	J	0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 17:21	1
Calcium	420		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 17:21	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 17:21	1
Cobalt	0.0011		0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 15:35	1
Lead	<0.00050		0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 17:21	1
Magnesium	52		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 17:21	1
Molybdenum	0.059		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 17:21	1
Potassium	14		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 17:21	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 17:21	1
Sodium	24		2.0	0.77	mg/L		06/10/24 10:06	06/13/24 14:34	10
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 17:21	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		06/10/24 14:20	06/11/24 10:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	14		5.0	0.58	mg/L			06/05/24 01:23	5
Sulfate (EPA 300.0)	1000		50	10	mg/L			06/06/24 00:51	50
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	230		5.0	3.7	mg/L			06/03/24 12:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 12:18	1
Total Dissolved Solids (SM 2540C)	1800		10	4.3	mg/L			06/05/24 01:54	1
Fluoride (SM 4500 F C)	0.16		0.10	0.056	mg/L			06/13/24 15:00	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	7.07				ft			05/30/24 11:30	1
Field pH	7.01				SU			05/30/24 11:30	1
Field Temperature	15.0				Degrees C			05/30/24 11:30	1
Oxidation Reduction Potential	107.2				millivolts			05/30/24 11:30	1
Oxygen, Dissolved	0.01				mg/L			05/30/24 11:30	1
Specific Conductance	1949				umhos/cm			05/30/24 11:30	1
Turbidity	34.01				NTU			05/30/24 11:30	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_49

Lab Sample ID: 500-251407-9

Date Collected: 05/30/24 14:00

Matrix: Water

Date Received: 05/31/24 09:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.026		0.0050	0.0020	mg/L		06/05/24 10:10	06/11/24 17:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030	F1	0.0030	0.0013	mg/L		06/10/24 10:06	06/12/24 17:32	1
Arsenic	<0.0010	F1	0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 17:32	1
Barium	0.060	F1	0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 17:32	1
Beryllium	<0.0010	F1 ^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 14:37	1
Boron	0.72	F1 B	0.050	0.013	mg/L		06/10/24 10:06	06/13/24 14:37	1
Cadmium	0.0013	F1	0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 17:32	1
Calcium	120		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 17:32	1
Chromium	<0.0050	F1	0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 17:32	1
Cobalt	0.0036	F1	0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 14:37	1
Lead	<0.00050	F1	0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 17:32	1
Magnesium	38	F1	0.20	0.049	mg/L		06/10/24 10:06	06/12/24 17:32	1
Molybdenum	0.022	F1	0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 17:32	1
Potassium	12	F1	0.50	0.11	mg/L		06/10/24 10:06	06/12/24 17:32	1
Selenium	<0.0025	F1	0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 17:32	1
Sodium	62		0.20	0.077	mg/L		06/10/24 10:06	06/13/24 14:37	1
Thallium	<0.0020	F1	0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 17:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/10/24 14:20	06/11/24 10:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	110		5.0	0.58	mg/L			06/05/24 01:54	5
Sulfate (EPA 300.0)	81		5.0	1.0	mg/L			06/05/24 01:54	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	310		5.0	3.7	mg/L			06/03/24 14:04	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 14:04	1
Total Dissolved Solids (SM 2540C)	630		10	4.3	mg/L			06/05/24 01:57	1
Fluoride (SM 4500 F C)	0.17		0.10	0.056	mg/L			06/13/24 15:05	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	20.40				ft			05/30/24 14:00	1
Field pH	7.18				SU			05/30/24 14:00	1
Field Temperature	16.2				Degrees C			05/30/24 14:00	1
Oxidation Reduction Potential	49.1				millivolts			05/30/24 14:00	1
Oxygen, Dissolved	0.04				mg/L			05/30/24 14:00	1
Specific Conductance	1031				umhos/cm			05/30/24 14:00	1
Turbidity	75.12				NTU			05/30/24 14:00	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_50

Lab Sample ID: 500-251407-10

Date Collected: 05/30/24 12:35

Matrix: Water

Date Received: 05/31/24 09:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.033		0.0050	0.0020	mg/L		06/05/24 10:10	06/11/24 17:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/10/24 10:06	06/12/24 17:48	1
Arsenic	0.00050	J	0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 17:48	1
Barium	0.093		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 17:48	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 14:56	1
Boron	0.76	B	0.050	0.013	mg/L		06/10/24 10:06	06/13/24 14:56	1
Cadmium	0.00052		0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 17:48	1
Calcium	140		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 17:48	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 17:48	1
Cobalt	0.0024		0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 14:56	1
Lead	<0.00050		0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 17:48	1
Magnesium	36		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 17:48	1
Molybdenum	0.035		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 17:48	1
Potassium	10		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 17:48	1
Selenium	0.0017	J	0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 17:48	1
Sodium	66		0.20	0.077	mg/L		06/10/24 10:06	06/12/24 17:48	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 17:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/10/24 14:20	06/11/24 10:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	71		5.0	0.58	mg/L			06/05/24 04:00	5
Sulfate (EPA 300.0)	130		5.0	1.0	mg/L			06/05/24 04:00	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	310		5.0	3.7	mg/L			06/03/24 12:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 12:27	1
Total Dissolved Solids (SM 2540C)	720		10	4.3	mg/L			06/05/24 02:05	1
Fluoride (SM 4500 F C)	0.12		0.10	0.056	mg/L			06/13/24 15:20	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	17.07				ft			05/30/24 12:35	1
Field pH	7.48				SU			05/30/24 12:35	1
Field Temperature	14.9				Degrees C			05/30/24 12:35	1
Oxidation Reduction Potential	150.9				millivolts			05/30/24 12:35	1
Oxygen, Dissolved	1.01				mg/L			05/30/24 12:35	1
Specific Conductance	1035				umhos/cm			05/30/24 12:35	1
Turbidity	0.89				NTU			05/30/24 12:35	1

Eurofins Chicago

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_51

Lab Sample ID: 500-251407-11

Date Collected: 05/30/24 11:10

Matrix: Water

Date Received: 05/31/24 09:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.027		0.0050	0.0020	mg/L		06/05/24 10:10	06/11/24 17:31	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		06/10/24 10:06	06/12/24 17:50	1
Arsenic	0.021		0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 17:50	1
Barium	0.10		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 17:50	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 14:58	1
Boron	1.5	B	0.050	0.013	mg/L		06/10/24 10:06	06/13/24 14:58	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 17:50	1
Calcium	120		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 17:50	1
Chromium	0.0014	J	0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 17:50	1
Cobalt	0.00077	J	0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 14:58	1
Lead	0.0012		0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 17:50	1
Magnesium	41		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 17:50	1
Molybdenum	0.0086		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 17:50	1
Potassium	7.0		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 17:50	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 17:50	1
Sodium	65		0.20	0.077	mg/L		06/10/24 10:06	06/12/24 17:50	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 17:50	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		06/10/24 14:20	06/11/24 10:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	100	B	5.0	0.58	mg/L			06/06/24 01:07	5
Sulfate (EPA 300.0)	89		5.0	1.0	mg/L			06/06/24 01:07	5
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	330		5.0	3.7	mg/L			06/03/24 12:35	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 12:35	1
Total Dissolved Solids (SM 2540C)	720		10	4.3	mg/L			06/05/24 02:10	1
Fluoride (SM 4500 F C)	0.15		0.10	0.056	mg/L			06/13/24 15:36	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	17.04				ft			05/30/24 11:10	1
Field pH	7.48				SU			05/30/24 11:10	1
Field Temperature	13.0				Degrees C			05/30/24 11:10	1
Oxidation Reduction Potential	-145.3				millivolts			05/30/24 11:10	1
Oxygen, Dissolved	-0.03				mg/L			05/30/24 11:10	1
Specific Conductance	1086				umhos/cm			05/30/24 11:10	1
Turbidity	16.02				NTU			05/30/24 11:10	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_35_FD

Lab Sample ID: 500-251407-12

Date Collected: 05/30/24 11:30

Matrix: Water

Date Received: 05/31/24 09:21

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.029		0.0050	0.0020	mg/L		06/05/24 10:10	06/11/24 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/10/24 10:06	06/12/24 17:52	1
Arsenic	0.00091	J	0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 17:52	1
Barium	0.051		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 17:52	1
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 15:42	1
Boron	14	B	0.50	0.13	mg/L		06/10/24 10:06	06/13/24 15:01	10
Cadmium	0.00034	J	0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 17:52	1
Calcium	420		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 17:52	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 17:52	1
Cobalt	0.0010		0.0010	0.00040	mg/L		06/10/24 10:06	06/13/24 15:42	1
Lead	<0.00050		0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 17:52	1
Magnesium	51		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 17:52	1
Molybdenum	0.059		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 17:52	1
Potassium	14		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 17:52	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 17:52	1
Sodium	24		0.20	0.077	mg/L		06/10/24 10:06	06/12/24 17:52	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 17:52	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		06/10/24 14:20	06/11/24 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	14	B	5.0	0.58	mg/L			06/06/24 01:38	5
Sulfate (EPA 300.0)	1100		100	21	mg/L			06/12/24 13:08	100
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	230		5.0	3.7	mg/L			06/03/24 12:45	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<5.0		5.0	3.7	mg/L			06/03/24 12:45	1
Total Dissolved Solids (SM 2540C)	1800		10	4.3	mg/L			06/05/24 02:12	1
Fluoride (SM 4500 F C)	0.16		0.10	0.056	mg/L			06/13/24 15:40	1

Method: EPA Field Sampling - Field Sampling

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	7.07				ft			05/30/24 11:30	1
Field pH	7.01				SU			05/30/24 11:30	1
Field Temperature	15.0				Degrees C			05/30/24 11:30	1
Oxidation Reduction Potential	107.2				millivolts			05/30/24 11:30	1
Oxygen, Dissolved	0.01				mg/L			05/30/24 11:30	1
Specific Conductance	1949				umhos/cm			05/30/24 11:30	1
Turbidity	34.01				NTU			05/30/24 11:30	1

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Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
Q45 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_YSG_ILRIVER Lab Sample ID: 500-251407-19
Date Collected: 04/15/24 11:45 Matrix: Water
Date Received: 05/31/24 09:21

Method: EPA Field Sampling - Field Sampling									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Depth to Water (ft from MP)	19.85				ft			04/15/24 11:45	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-251407-4
SDG: HEN_845_804

Qualifiers

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

Metals

Prep Batch: 771090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total Recoverable	Water	200.7	
500-251407-2	HEN_22	Total Recoverable	Water	200.7	
500-251407-3	HEN_22&D	Total Recoverable	Water	200.7	
500-251407-4	HEN_23	Total Recoverable	Water	200.7	
500-251407-5	HEN_27	Total Recoverable	Water	200.7	
500-251407-6	HEN_32	Total Recoverable	Water	200.7	
500-251407-7	HEN_34	Total Recoverable	Water	200.7	
500-251407-8	HEN_35	Total Recoverable	Water	200.7	
500-251407-9	HEN_49	Total Recoverable	Water	200.7	
500-251407-10	HEN_50	Total Recoverable	Water	200.7	
500-251407-11	HEN_51	Total Recoverable	Water	200.7	
500-251407-12	HEN_35_FD	Total Recoverable	Water	200.7	
MB 500-771090/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 500-771090/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
500-251407-1 MS	HEN_21R	Total Recoverable	Water	200.7	
500-251407-1 MSD	HEN_21R	Total Recoverable	Water	200.7	
500-251407-9 MS	HEN_49	Total Recoverable	Water	200.7	
500-251407-9 MSD	HEN_49	Total Recoverable	Water	200.7	
500-251407-1 DU	HEN_21R	Total Recoverable	Water	200.7	
500-251407-9 DU	HEN_49	Total Recoverable	Water	200.7	

Prep Batch: 771803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total Recoverable	Water	3005A	
500-251407-2	HEN_22	Total Recoverable	Water	3005A	
500-251407-3	HEN_22&D	Total Recoverable	Water	3005A	
500-251407-4	HEN_23	Total Recoverable	Water	3005A	
500-251407-5	HEN_27	Total Recoverable	Water	3005A	
500-251407-6	HEN_32	Total Recoverable	Water	3005A	
500-251407-7	HEN_34	Total Recoverable	Water	3005A	
500-251407-8	HEN_35	Total Recoverable	Water	3005A	
500-251407-9	HEN_49	Total Recoverable	Water	3005A	
500-251407-10	HEN_50	Total Recoverable	Water	3005A	
500-251407-11	HEN_51	Total Recoverable	Water	3005A	
500-251407-12	HEN_35_FD	Total Recoverable	Water	3005A	
MB 500-771803/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-771803/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
500-251407-1 MS	HEN_21R	Total Recoverable	Water	3005A	
500-251407-1 MSD	HEN_21R	Total Recoverable	Water	3005A	
500-251407-9 MS	HEN_49	Total Recoverable	Water	3005A	
500-251407-9 MSD	HEN_49	Total Recoverable	Water	3005A	
500-251407-1 DU	HEN_21R	Total Recoverable	Water	3005A	
500-251407-9 DU	HEN_49	Total Recoverable	Water	3005A	

Prep Batch: 771837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	7470A	
500-251407-2	HEN_22	Total/NA	Water	7470A	
500-251407-3	HEN_22&D	Total/NA	Water	7470A	
500-251407-4	HEN_23	Total/NA	Water	7470A	
500-251407-5	HEN_27	Total/NA	Water	7470A	

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

Metals (Continued)

Prep Batch: 771837 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-6	HEN_32	Total/NA	Water	7470A	
500-251407-7	HEN_34	Total/NA	Water	7470A	
500-251407-8	HEN_35	Total/NA	Water	7470A	
500-251407-9	HEN_49	Total/NA	Water	7470A	
500-251407-10	HEN_50	Total/NA	Water	7470A	
500-251407-11	HEN_51	Total/NA	Water	7470A	
500-251407-12	HEN_35_FD	Total/NA	Water	7470A	
MB 500-771837/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-771837/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-251407-1 MS	HEN_21R	Total/NA	Water	7470A	
500-251407-1 MSD	HEN_21R	Total/NA	Water	7470A	
500-251407-9 MS	HEN_49	Total/NA	Water	7470A	
500-251407-9 MSD	HEN_49	Total/NA	Water	7470A	
500-251407-1 DU	HEN_21R	Total/NA	Water	7470A	
500-251407-9 DU	HEN_49	Total/NA	Water	7470A	

Analysis Batch: 771998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	7470A	771837
500-251407-2	HEN_22	Total/NA	Water	7470A	771837
500-251407-3	HEN_22&D	Total/NA	Water	7470A	771837
500-251407-4	HEN_23	Total/NA	Water	7470A	771837
500-251407-5	HEN_27	Total/NA	Water	7470A	771837
500-251407-6	HEN_32	Total/NA	Water	7470A	771837
500-251407-7	HEN_34	Total/NA	Water	7470A	771837
500-251407-8	HEN_35	Total/NA	Water	7470A	771837
500-251407-9	HEN_49	Total/NA	Water	7470A	771837
500-251407-10	HEN_50	Total/NA	Water	7470A	771837
500-251407-11	HEN_51	Total/NA	Water	7470A	771837
500-251407-12	HEN_35_FD	Total/NA	Water	7470A	771837
MB 500-771837/12-A	Method Blank	Total/NA	Water	7470A	771837
LCS 500-771837/13-A	Lab Control Sample	Total/NA	Water	7470A	771837
500-251407-1 MS	HEN_21R	Total/NA	Water	7470A	771837
500-251407-1 MSD	HEN_21R	Total/NA	Water	7470A	771837
500-251407-9 MS	HEN_49	Total/NA	Water	7470A	771837
500-251407-9 MSD	HEN_49	Total/NA	Water	7470A	771837
500-251407-1 DU	HEN_21R	Total/NA	Water	7470A	771837
500-251407-9 DU	HEN_49	Total/NA	Water	7470A	771837

Analysis Batch: 772201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-2	HEN_22	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-3	HEN_22&D	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-4	HEN_23	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-5	HEN_27	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-6	HEN_32	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-7	HEN_34	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-8	HEN_35	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-9	HEN_49	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-10	HEN_50	Total Recoverable	Water	200.7 Rev 4.4	771090

Eurofins Chicago

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

Metals (Continued)

Analysis Batch: 772201 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-11	HEN_51	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-12	HEN_35_FD	Total Recoverable	Water	200.7 Rev 4.4	771090
MB 500-771090/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-1 MS	HEN_21R	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-1 MSD	HEN_21R	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-9 MS	HEN_49	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-9 MSD	HEN_49	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-1 DU	HEN_21R	Total Recoverable	Water	200.7 Rev 4.4	771090
500-251407-9 DU	HEN_49	Total Recoverable	Water	200.7 Rev 4.4	771090

Analysis Batch: 772398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-2	HEN_22	Total Recoverable	Water	6020B	771803
500-251407-3	HEN_22&D	Total Recoverable	Water	6020B	771803
500-251407-4	HEN_23	Total Recoverable	Water	6020B	771803
500-251407-5	HEN_27	Total Recoverable	Water	6020B	771803
500-251407-6	HEN_32	Total Recoverable	Water	6020B	771803
500-251407-7	HEN_34	Total Recoverable	Water	6020B	771803
500-251407-8	HEN_35	Total Recoverable	Water	6020B	771803
500-251407-9	HEN_49	Total Recoverable	Water	6020B	771803
500-251407-10	HEN_50	Total Recoverable	Water	6020B	771803
500-251407-11	HEN_51	Total Recoverable	Water	6020B	771803
500-251407-12	HEN_35_FD	Total Recoverable	Water	6020B	771803
MB 500-771803/1-A	Method Blank	Total Recoverable	Water	6020B	771803
LCS 500-771803/2-A	Lab Control Sample	Total Recoverable	Water	6020B	771803
500-251407-1 MS	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-1 MSD	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-9 MS	HEN_49	Total Recoverable	Water	6020B	771803
500-251407-9 MSD	HEN_49	Total Recoverable	Water	6020B	771803
500-251407-1 DU	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-9 DU	HEN_49	Total Recoverable	Water	6020B	771803

Analysis Batch: 772584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-1	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-2	HEN_22	Total Recoverable	Water	6020B	771803
500-251407-2	HEN_22	Total Recoverable	Water	6020B	771803
500-251407-3	HEN_22&D	Total Recoverable	Water	6020B	771803
500-251407-3	HEN_22&D	Total Recoverable	Water	6020B	771803
500-251407-4	HEN_23	Total Recoverable	Water	6020B	771803
500-251407-4	HEN_23	Total Recoverable	Water	6020B	771803
500-251407-5	HEN_27	Total Recoverable	Water	6020B	771803
500-251407-5	HEN_27	Total Recoverable	Water	6020B	771803
500-251407-6	HEN_32	Total Recoverable	Water	6020B	771803
500-251407-7	HEN_34	Total Recoverable	Water	6020B	771803
500-251407-8	HEN_35	Total Recoverable	Water	6020B	771803
500-251407-8	HEN_35	Total Recoverable	Water	6020B	771803
500-251407-9	HEN_49	Total Recoverable	Water	6020B	771803
500-251407-10	HEN_50	Total Recoverable	Water	6020B	771803

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

Metals (Continued)

Analysis Batch: 772584 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-11	HEN_51	Total Recoverable	Water	6020B	771803
500-251407-12	HEN_35_FD	Total Recoverable	Water	6020B	771803
500-251407-12	HEN_35_FD	Total Recoverable	Water	6020B	771803
MB 500-771803/1-A	Method Blank	Total Recoverable	Water	6020B	771803
LCS 500-771803/2-A	Lab Control Sample	Total Recoverable	Water	6020B	771803
500-251407-1 MS	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-1 MS	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-1 MSD	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-1 MSD	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-9 MS	HEN_49	Total Recoverable	Water	6020B	771803
500-251407-9 MSD	HEN_49	Total Recoverable	Water	6020B	771803
500-251407-1 DU	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-1 DU	HEN_21R	Total Recoverable	Water	6020B	771803
500-251407-9 DU	HEN_49	Total Recoverable	Water	6020B	771803

Analysis Batch: 772589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-771090/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	771090

General Chemistry

Analysis Batch: 770742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	SM 2540C	
MB 500-770742/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-770742/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-251407-1 MS	HEN_21R	Total/NA	Water	SM 2540C	
500-251407-1 MSD	HEN_21R	Total/NA	Water	SM 2540C	

Analysis Batch: 770813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	SM 2320B	
500-251407-2	HEN_22	Total/NA	Water	SM 2320B	
500-251407-3	HEN_22&D	Total/NA	Water	SM 2320B	
500-251407-4	HEN_23	Total/NA	Water	SM 2320B	
500-251407-5	HEN_27	Total/NA	Water	SM 2320B	
500-251407-6	HEN_32	Total/NA	Water	SM 2320B	
500-251407-7	HEN_34	Total/NA	Water	SM 2320B	
500-251407-8	HEN_35	Total/NA	Water	SM 2320B	
500-251407-9	HEN_49	Total/NA	Water	SM 2320B	
500-251407-10	HEN_50	Total/NA	Water	SM 2320B	
500-251407-11	HEN_51	Total/NA	Water	SM 2320B	
500-251407-12	HEN_35_FD	Total/NA	Water	SM 2320B	
MB 500-770813/53	Method Blank	Total/NA	Water	SM 2320B	
MB 500-770813/54	Method Blank	Total/NA	Water	SM 2320B	
LCS 500-770813/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 500-770813/4	Lab Control Sample	Total/NA	Water	SM 2320B	
500-251407-1 DU	HEN_21R	Total/NA	Water	SM 2320B	
500-251407-9 DU	HEN_49	Total/NA	Water	SM 2320B	

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

General Chemistry

Analysis Batch: 770925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	300.0	
500-251407-2	HEN_22	Total/NA	Water	300.0	
500-251407-3	HEN_22&D	Total/NA	Water	300.0	
500-251407-4	HEN_23	Total/NA	Water	300.0	
500-251407-5	HEN_27	Total/NA	Water	300.0	
500-251407-6	HEN_32	Total/NA	Water	300.0	
500-251407-7	HEN_34	Total/NA	Water	300.0	
500-251407-8	HEN_35	Total/NA	Water	300.0	
500-251407-9	HEN_49	Total/NA	Water	300.0	
500-251407-10	HEN_50	Total/NA	Water	300.0	
MB 500-770925/3	Method Blank	Total/NA	Water	300.0	
MB 500-770925/33	Method Blank	Total/NA	Water	300.0	
LCS 500-770925/34	Lab Control Sample	Total/NA	Water	300.0	
LCS 500-770925/4	Lab Control Sample	Total/NA	Water	300.0	
500-251407-1 MS	HEN_21R	Total/NA	Water	300.0	
500-251407-1 MSD	HEN_21R	Total/NA	Water	300.0	
500-251407-9 MS	HEN_49	Total/NA	Water	300.0	
500-251407-9 MSD	HEN_49	Total/NA	Water	300.0	

Analysis Batch: 770985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-2	HEN_22	Total/NA	Water	SM 2540C	
500-251407-3	HEN_22&D	Total/NA	Water	SM 2540C	
500-251407-4	HEN_23	Total/NA	Water	SM 2540C	
500-251407-5	HEN_27	Total/NA	Water	SM 2540C	
500-251407-6	HEN_32	Total/NA	Water	SM 2540C	
500-251407-7	HEN_34	Total/NA	Water	SM 2540C	
500-251407-8	HEN_35	Total/NA	Water	SM 2540C	
500-251407-9	HEN_49	Total/NA	Water	SM 2540C	
500-251407-10	HEN_50	Total/NA	Water	SM 2540C	
500-251407-11	HEN_51	Total/NA	Water	SM 2540C	
500-251407-12	HEN_35_FD	Total/NA	Water	SM 2540C	
MB 500-770985/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 500-770985/2	Lab Control Sample	Total/NA	Water	SM 2540C	
500-251407-9 MS	HEN_49	Total/NA	Water	SM 2540C	
500-251407-9 MSD	HEN_49	Total/NA	Water	SM 2540C	
500-251407-10 DU	HEN_50	Total/NA	Water	SM 2540C	

Analysis Batch: 771143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-4	HEN_23	Total/NA	Water	300.0	
500-251407-8	HEN_35	Total/NA	Water	300.0	
500-251407-11	HEN_51	Total/NA	Water	300.0	
500-251407-12	HEN_35_FD	Total/NA	Water	300.0	
MB 500-771143/23	Method Blank	Total/NA	Water	300.0	
LCS 500-771143/24	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 771513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	SM 4500 F C	
500-251407-2	HEN_22	Total/NA	Water	SM 4500 F C	

Eurofins Chicago

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

General Chemistry (Continued)

Analysis Batch: 771513 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-3	HEN_22&D	Total/NA	Water	SM 4500 F C	
500-251407-4	HEN_23	Total/NA	Water	SM 4500 F C	
MB 500-771513/3	Method Blank	Total/NA	Water	SM 4500 F C	
MB 500-771513/31	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-771513/32	Lab Control Sample	Total/NA	Water	SM 4500 F C	
LCS 500-771513/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-251407-1 MS	HEN_21R	Total/NA	Water	SM 4500 F C	
500-251407-1 MSD	HEN_21R	Total/NA	Water	SM 4500 F C	

Analysis Batch: 772226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-12	HEN_35_FD	Total/NA	Water	300.0	
MB 500-772226/11	Method Blank	Total/NA	Water	300.0	
LCS 500-772226/12	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 772579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-5	HEN_27	Total/NA	Water	SM 4500 F C	
500-251407-6	HEN_32	Total/NA	Water	SM 4500 F C	
500-251407-7	HEN_34	Total/NA	Water	SM 4500 F C	
500-251407-8	HEN_35	Total/NA	Water	SM 4500 F C	
500-251407-9	HEN_49	Total/NA	Water	SM 4500 F C	
500-251407-10	HEN_50	Total/NA	Water	SM 4500 F C	
500-251407-11	HEN_51	Total/NA	Water	SM 4500 F C	
500-251407-12	HEN_35_FD	Total/NA	Water	SM 4500 F C	
MB 500-772579/3	Method Blank	Total/NA	Water	SM 4500 F C	
LCS 500-772579/4	Lab Control Sample	Total/NA	Water	SM 4500 F C	
500-251407-9 MS	HEN_49	Total/NA	Water	SM 4500 F C	
500-251407-9 MSD	HEN_49	Total/NA	Water	SM 4500 F C	

Field Service / Mobile Lab

Analysis Batch: 771257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	Field Sampling	
500-251407-2	HEN_22	Total/NA	Water	Field Sampling	
500-251407-3	HEN_22&D	Total/NA	Water	Field Sampling	
500-251407-4	HEN_23	Total/NA	Water	Field Sampling	
500-251407-5	HEN_27	Total/NA	Water	Field Sampling	
500-251407-6	HEN_32	Total/NA	Water	Field Sampling	
500-251407-7	HEN_34	Total/NA	Water	Field Sampling	
500-251407-8	HEN_35	Total/NA	Water	Field Sampling	
500-251407-9	HEN_49	Total/NA	Water	Field Sampling	
500-251407-10	HEN_50	Total/NA	Water	Field Sampling	
500-251407-11	HEN_51	Total/NA	Water	Field Sampling	
500-251407-12	HEN_35_FD	Total/NA	Water	Field Sampling	
500-251407-19	HEN_YSG_ILRIVER	Total/NA	Water	Field Sampling	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-771090/1-A
Matrix: Water
Analysis Batch: 772201

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 771090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	<0.0050		0.0050	0.0020	mg/L		06/05/24 10:10	06/11/24 16:04	1

Lab Sample ID: LCS 500-771090/2-A
Matrix: Water
Analysis Batch: 772589

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 771090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.250	0.247		mg/L		99	85 - 115

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 772201

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.029		0.250	0.325		mg/L		118	70 - 130

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 772201

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.029		0.250	0.315		mg/L		114	70 - 130	3	20

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 772201

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 771090

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.026		0.250	0.315		mg/L		115	70 - 130

Lab Sample ID: 500-251407-9 MSD
Matrix: Water
Analysis Batch: 772201

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 771090

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.026		0.250	0.306		mg/L		112	70 - 130	3	20

Lab Sample ID: 500-251407-1 DU
Matrix: Water
Analysis Batch: 772201

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771090

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.029		0.0299		mg/L		2	20

Lab Sample ID: 500-251407-9 DU
Matrix: Water
Analysis Batch: 772201

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 771090

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lithium	0.026		0.0260		mg/L		0.7	20

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-771803/1-A
Matrix: Water
Analysis Batch: 772398

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.0030		0.0030	0.0013	mg/L		06/10/24 10:06	06/12/24 14:47	1
Arsenic	<0.0010		0.0010	0.00023	mg/L		06/10/24 10:06	06/12/24 14:47	1
Barium	<0.0025		0.0025	0.00073	mg/L		06/10/24 10:06	06/12/24 14:47	1
Boron	0.0271	J	0.050	0.013	mg/L		06/10/24 10:06	06/12/24 14:47	1
Cadmium	<0.00050		0.00050	0.00017	mg/L		06/10/24 10:06	06/12/24 14:47	1
Calcium	<0.20		0.20	0.044	mg/L		06/10/24 10:06	06/12/24 14:47	1
Chromium	<0.0050		0.0050	0.0011	mg/L		06/10/24 10:06	06/12/24 14:47	1
Cobalt	<0.0010		0.0010	0.00040	mg/L		06/10/24 10:06	06/12/24 14:47	1
Lead	<0.00050		0.00050	0.00019	mg/L		06/10/24 10:06	06/12/24 14:47	1
Magnesium	<0.20		0.20	0.049	mg/L		06/10/24 10:06	06/12/24 14:47	1
Molybdenum	<0.0050		0.0050	0.0025	mg/L		06/10/24 10:06	06/12/24 14:47	1
Potassium	<0.50		0.50	0.11	mg/L		06/10/24 10:06	06/12/24 14:47	1
Selenium	<0.0025		0.0025	0.00098	mg/L		06/10/24 10:06	06/12/24 14:47	1
Sodium	<0.20		0.20	0.077	mg/L		06/10/24 10:06	06/12/24 14:47	1
Thallium	<0.0020		0.0020	0.00057	mg/L		06/10/24 10:06	06/12/24 14:47	1

Lab Sample ID: MB 500-771803/1-A
Matrix: Water
Analysis Batch: 772584

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.0010	^1+	0.0010	0.00053	mg/L		06/10/24 10:06	06/13/24 14:01	1

Lab Sample ID: LCS 500-771803/2-A
Matrix: Water
Analysis Batch: 772398

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.500	0.519		mg/L		104	80 - 120
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	0.500	0.536		mg/L		107	80 - 120
Boron	1.00	1.11		mg/L		111	80 - 120
Cadmium	0.0500	0.0528		mg/L		106	80 - 120
Calcium	10.0	8.82		mg/L		88	80 - 120
Chromium	0.200	0.214		mg/L		107	80 - 120
Cobalt	0.500	0.549		mg/L		110	80 - 120
Lead	0.100	0.104		mg/L		104	80 - 120
Magnesium	10.0	11.1		mg/L		111	80 - 120
Molybdenum	1.00	1.02		mg/L		102	80 - 120
Potassium	10.0	10.9		mg/L		109	80 - 120
Selenium	0.100	0.102		mg/L		102	80 - 120
Sodium	10.0	11.0		mg/L		110	80 - 120
Thallium	0.100	0.108		mg/L		108	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

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

Lab Sample ID: LCS 500-771803/2-A
Matrix: Water
Analysis Batch: 772584

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	0.0500	0.0531	^1+	mg/L		106	80 - 120

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 772398

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.0030		0.500	0.516		mg/L		103	75 - 125
Arsenic	0.022		0.100	0.121		mg/L		99	75 - 125
Barium	0.28		0.500	0.816		mg/L		107	75 - 125
Cadmium	<0.00050		0.0500	0.0515		mg/L		103	75 - 125
Calcium	140		10.0	147	4	mg/L		104	75 - 125
Chromium	0.0023	J	0.200	0.219		mg/L		108	75 - 125
Lead	0.0016		0.100	0.108		mg/L		106	75 - 125
Magnesium	43		10.0	54.0	4	mg/L		109	75 - 125
Molybdenum	0.0095		1.00	1.07		mg/L		106	75 - 125
Potassium	3.4		10.0	14.3		mg/L		109	75 - 125
Selenium	<0.0025		0.100	0.0957		mg/L		96	75 - 125
Thallium	<0.0020		0.100	0.111		mg/L		111	75 - 125

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 772584

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Boron	2.3	B	1.00	3.23		mg/L		96	75 - 125
Sodium	59		10.0	69.7	4	mg/L		109	75 - 125

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 772584

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	<0.0010	^1+	0.0500	0.0514	^1+	mg/L		103	75 - 125
Cobalt	0.00090	J	0.500	0.530		mg/L		106	75 - 125

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 772398

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Antimony	<0.0030		0.500	0.522		mg/L		104	75 - 125	1	20
Arsenic	0.022		0.100	0.122		mg/L		100	75 - 125	1	20
Barium	0.28		0.500	0.831		mg/L		110	75 - 125	2	20
Cadmium	<0.00050		0.0500	0.0528		mg/L		106	75 - 125	2	20
Calcium	140		10.0	151	4	mg/L		146	75 - 125	3	20
Chromium	0.0023	J	0.200	0.225		mg/L		111	75 - 125	3	20
Lead	0.0016		0.100	0.111		mg/L		109	75 - 125	2	20
Magnesium	43		10.0	54.9	4	mg/L		118	75 - 125	2	20

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

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

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 772398

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Molybdenum	0.0095		1.00	1.07		mg/L		106	75 - 125	0	20
Potassium	3.4		10.0	14.9		mg/L		115	75 - 125	4	20
Selenium	<0.0025		0.100	0.0979		mg/L		98	75 - 125	2	20
Thallium	<0.0020		0.100	0.113		mg/L		113	75 - 125	2	20

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 772584

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	2.3	B	1.00	3.34		mg/L		108	75 - 125	4	20
Sodium	59		10.0	71.2	4	mg/L		123	75 - 125	2	20

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 772584

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.0010	^1+	0.0500	0.0520	^1+	mg/L		104	75 - 125	1	20
Cobalt	0.00090	J	0.500	0.535		mg/L		107	75 - 125	1	20

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 772398

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030	F1	0.500	<0.0030	F1	mg/L		0	75 - 125		
Arsenic	<0.0010	F1	0.100	<0.0010	F1	mg/L		0	75 - 125		
Barium	0.060	F1	0.500	0.0604	F1	mg/L		0.07	75 - 125		
Cadmium	0.0013	F1	0.0500	0.00136	F1	mg/L		0.1	75 - 125		
Calcium	120		10.0	115	4	mg/L		-6	75 - 125		
Chromium	<0.0050	F1	0.200	<0.0050	F1	mg/L		0	75 - 125		
Lead	<0.00050	F1	0.100	<0.00050	F1	mg/L		0	75 - 125		
Magnesium	38	F1	10.0	38.0	F1	mg/L		-0.6	75 - 125		
Molybdenum	0.022	F1	1.00	0.0223	F1	mg/L		0.03	75 - 125		
Potassium	12	F1	10.0	12.3	F1	mg/L		-0.5	75 - 125		
Selenium	<0.0025	F1	0.100	<0.0025	F1	mg/L		0	75 - 125		
Thallium	<0.0020	F1	0.100	<0.0020	F1	mg/L		0	75 - 125		

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 772584

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.0010	F1 ^1+	0.0500	<0.0010	^1+ F1	mg/L		0	75 - 125		
Boron	0.72	F1 B	1.00	0.698	F1	mg/L		-2	75 - 125		
Cobalt	0.0036	F1	0.500	0.00366	F1	mg/L		0.01	75 - 125		
Sodium	62		10.0	62.6	4	mg/L		4	75 - 125		

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-251407-4
SDG: HEN_845_804

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

Lab Sample ID: 500-251407-9 MSD

Matrix: Water

Analysis Batch: 772398

Client Sample ID: HEN_49

Prep Type: Total Recoverable

Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.0030	F1	0.500	<0.0030	F1	mg/L		0	75 - 125	NC	20
Arsenic	<0.0010	F1	0.100	<0.0010	F1	mg/L		0	75 - 125	NC	20
Barium	0.060	F1	0.500	0.0610	F1	mg/L		0.2	75 - 125	1	20
Cadmium	0.0013	F1	0.0500	0.00141	F1	mg/L		0.2	75 - 125	3	20
Calcium	120		10.0	116	4	mg/L		1	75 - 125	1	20
Chromium	<0.0050	F1	0.200	<0.0050	F1	mg/L		0	75 - 125	NC	20
Lead	<0.00050	F1	0.100	<0.00050	F1	mg/L		0	75 - 125	NC	20
Magnesium	38	F1	10.0	38.5	F1	mg/L		5	75 - 125	1	20
Molybdenum	0.022	F1	1.00	0.0224	F1	mg/L		0.03	75 - 125	0	20
Potassium	12	F1	10.0	12.4	F1	mg/L		0.6	75 - 125	1	20
Selenium	<0.0025	F1	0.100	<0.0025	F1	mg/L		0	75 - 125	NC	20
Thallium	<0.0020	F1	0.100	<0.0020	F1	mg/L		0	75 - 125	NC	20

Lab Sample ID: 500-251407-9 MSD

Matrix: Water

Analysis Batch: 772584

Client Sample ID: HEN_49

Prep Type: Total Recoverable

Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Beryllium	<0.0010	F1 ^1+	0.0500	<0.0010	^1+ F1	mg/L		0	75 - 125	NC	20
Boron	0.72	F1 B	1.00	0.711	F1	mg/L		-0.9	75 - 125	2	20
Cobalt	0.0036	F1	0.500	0.00371	F1	mg/L		0.02	75 - 125	1	20
Sodium	62		10.0	62.5	4	mg/L		3	75 - 125	0	20

Lab Sample ID: 500-251407-1 DU

Matrix: Water

Analysis Batch: 772398

Client Sample ID: HEN_21R

Prep Type: Total Recoverable

Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.0030		<0.0030		mg/L		NC	20
Arsenic	0.022		0.0220		mg/L		0.2	20
Barium	0.28		0.278		mg/L		0.7	20
Cadmium	<0.00050		<0.00050		mg/L		NC	20
Calcium	140		137		mg/L		0.1	20
Chromium	0.0023	J	0.00249	J	mg/L		8	20
Lead	0.0016		0.00165		mg/L		2	20
Magnesium	43		43.4		mg/L		0.7	20
Molybdenum	0.0095		0.00955		mg/L		0.6	20
Potassium	3.4		3.50		mg/L		3	20
Selenium	<0.0025		<0.0025		mg/L		NC	20
Thallium	<0.0020		<0.0020		mg/L		NC	20

Lab Sample ID: 500-251407-1 DU

Matrix: Water

Analysis Batch: 772584

Client Sample ID: HEN_21R

Prep Type: Total Recoverable

Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Boron	2.3	B	2.19		mg/L		3	20
Sodium	59		59.1		mg/L		0.4	20

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

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

Lab Sample ID: 500-251407-1 DU
Matrix: Water
Analysis Batch: 772584

Client Sample ID: HEN_21R
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Beryllium	<0.0010	^1+	<0.0010	^1+	mg/L		NC	20
Cobalt	0.00090	J	0.000914	J	mg/L		2	20

Lab Sample ID: 500-251407-9 DU
Matrix: Water
Analysis Batch: 772398

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Antimony	<0.0030	F1	<0.0030		mg/L		NC	20
Arsenic	<0.0010	F1	<0.0010		mg/L		NC	20
Barium	0.060	F1	0.0609		mg/L		1	20
Cadmium	0.0013	F1	0.00138		mg/L		6	20
Calcium	120		115		mg/L		0.6	20
Chromium	<0.0050	F1	<0.0050		mg/L		NC	20
Lead	<0.00050	F1	0.000199	J	mg/L		NC	20
Magnesium	38	F1	37.8		mg/L		0.5	20
Molybdenum	0.022	F1	0.0223		mg/L		0.8	20
Potassium	12	F1	12.2		mg/L		0.9	20
Selenium	<0.0025	F1	<0.0025		mg/L		NC	20
Thallium	<0.0020	F1	<0.0020		mg/L		NC	20

Lab Sample ID: 500-251407-9 DU
Matrix: Water
Analysis Batch: 772584

Client Sample ID: HEN_49
Prep Type: Total Recoverable
Prep Batch: 771803

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Beryllium	<0.0010	F1 ^1+	<0.0010	^1+	mg/L		NC	20
Boron	0.72	F1 B	0.710		mg/L		1	20
Cobalt	0.0036	F1	0.00361		mg/L		0	20
Sodium	62		62.9		mg/L		1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-771837/12-A
Matrix: Water
Analysis Batch: 771998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 771837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.000076	mg/L		06/10/24 14:20	06/11/24 09:37	1

Lab Sample ID: LCS 500-771837/13-A
Matrix: Water
Analysis Batch: 771998

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 771837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00195		mg/L		97	80 - 120

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

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

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 771998

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 771837

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

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 771998

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 771837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.00100		mg/L		100	75 - 125	0	20

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 771998

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 771837

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Mercury	<0.00020		0.00100	0.00111		mg/L		111	75 - 125	

Lab Sample ID: 500-251407-9 MSD
Matrix: Water
Analysis Batch: 771998

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 771837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Mercury	<0.00020		0.00100	0.00101		mg/L		101	75 - 125	9	20

Lab Sample ID: 500-251407-1 DU
Matrix: Water
Analysis Batch: 771998

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 771837

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

Lab Sample ID: 500-251407-9 DU
Matrix: Water
Analysis Batch: 771998

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 771837

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-770925/3
Matrix: Water
Analysis Batch: 770925

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			06/04/24 14:11	1
Sulfate	<1.0		1.0	0.21	mg/L			06/04/24 14:11	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 500-770925/33
Matrix: Water
Analysis Batch: 770925

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			06/04/24 22:00	1
Sulfate	<1.0		1.0	0.21	mg/L			06/04/24 22:00	1

Lab Sample ID: LCS 500-770925/34
Matrix: Water
Analysis Batch: 770925

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.8		mg/L		104	90 - 110
Sulfate	20.0	21.4		mg/L		107	90 - 110

Lab Sample ID: LCS 500-770925/4
Matrix: Water
Analysis Batch: 770925

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.6		mg/L		103	90 - 110
Sulfate	20.0	21.3		mg/L		107	90 - 110

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 770925

Client Sample ID: HEN_21R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	94		50.0	149		mg/L		109	80 - 120
Sulfate	88		50.0	147		mg/L		118	80 - 120

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 770925

Client Sample ID: HEN_21R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	94		50.0	147		mg/L		106	80 - 120	1	20
Sulfate	88		50.0	140		mg/L		104	80 - 120	5	20

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 770925

Client Sample ID: HEN_49
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	110		50.0	164		mg/L		109	80 - 120
Sulfate	81		50.0	133		mg/L		104	80 - 120

Lab Sample ID: 500-251407-9 MSD
Matrix: Water
Analysis Batch: 770925

Client Sample ID: HEN_49
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	110		50.0	164		mg/L		110	80 - 120	0	20
Sulfate	81		50.0	132		mg/L		104	80 - 120	0	20

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-771143/23
Matrix: Water
Analysis Batch: 771143

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.168	J	1.0	0.12	mg/L			06/05/24 20:10	1
Sulfate	<1.0		1.0	0.21	mg/L			06/05/24 20:10	1

Lab Sample ID: LCS 500-771143/24
Matrix: Water
Analysis Batch: 771143

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	20.0	20.9		mg/L		105	90 - 110
Sulfate	20.0	21.4		mg/L		107	90 - 110

Lab Sample ID: MB 500-772226/11
Matrix: Water
Analysis Batch: 772226

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.0		1.0	0.21	mg/L			06/12/24 12:37	1

Lab Sample ID: LCS 500-772226/12
Matrix: Water
Analysis Batch: 772226

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	20.0	20.7		mg/L		103	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 500-770813/53
Matrix: Water
Analysis Batch: 770813

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			06/03/24 17:27	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			06/03/24 17:27	1

Lab Sample ID: MB 500-770813/54
Matrix: Water
Analysis Batch: 770813

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			06/03/24 17:30	1
Carbonate Alkalinity as CaCO3	<5.0		5.0	3.7	mg/L			06/03/24 17:30	1

Lab Sample ID: LCS 500-770813/29
Matrix: Water
Analysis Batch: 770813

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	100	108		mg/L		108	80 - 120

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QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 500-770813/4
Matrix: Water
Analysis Batch: 770813

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

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

Lab Sample ID: 500-251407-1 DU
Matrix: Water
Analysis Batch: 770813

Client Sample ID: HEN_21R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	350		356		mg/L		1	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

Lab Sample ID: 500-251407-9 DU
Matrix: Water
Analysis Batch: 770813

Client Sample ID: HEN_49
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Bicarbonate Alkalinity as CaCO3	310		320		mg/L		2	20
Carbonate Alkalinity as CaCO3	<5.0		<5.0		mg/L		NC	20

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

Lab Sample ID: MB 500-770742/1
Matrix: Water
Analysis Batch: 770742

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			06/03/24 21:39	1

Lab Sample ID: LCS 500-770742/2
Matrix: Water
Analysis Batch: 770742

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	276		mg/L		110	80 - 120

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 770742

Client Sample ID: HEN_21R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	680		250	968		mg/L		116	75 - 125

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 770742

Client Sample ID: HEN_21R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	680		250	920		mg/L		97	75 - 125	5	20

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

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

Lab Sample ID: MB 500-770985/1
Matrix: Water
Analysis Batch: 770985

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			06/05/24 01:34	1

Lab Sample ID: LCS 500-770985/2
Matrix: Water
Analysis Batch: 770985

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	250	274		mg/L		110	80 - 120

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 770985

Client Sample ID: HEN_49
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	630		250	886		mg/L		102	75 - 125

Lab Sample ID: 500-251407-9 MSD
Matrix: Water
Analysis Batch: 770985

Client Sample ID: HEN_49
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	630		250	920		mg/L		116	75 - 125	4	20

Lab Sample ID: 500-251407-10 DU
Matrix: Water
Analysis Batch: 770985

Client Sample ID: HEN_50
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	720		708		mg/L		2	5

Method: SM 4500 F C - Fluoride

Lab Sample ID: MB 500-771513/3
Matrix: Water
Analysis Batch: 771513

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			06/06/24 12:12	1

Lab Sample ID: MB 500-771513/31
Matrix: Water
Analysis Batch: 771513

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			06/06/24 14:26	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-4
SDG: HEN_845_804

Method: SM 4500 F C - Fluoride (Continued)

Lab Sample ID: LCS 500-771513/32
Matrix: Water
Analysis Batch: 771513

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	9.61		mg/L		96	90 - 119

Lab Sample ID: LCS 500-771513/4
Matrix: Water
Analysis Batch: 771513

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	9.64		mg/L		96	90 - 119

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 771513

Client Sample ID: HEN_21R
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	5.23		mg/L		101	75 - 125

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 771513

Client Sample ID: HEN_21R
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	5.23		mg/L		101	75 - 125	0	20

Lab Sample ID: MB 500-772579/3
Matrix: Water
Analysis Batch: 772579

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			06/13/24 14:36	1

Lab Sample ID: LCS 500-772579/4
Matrix: Water
Analysis Batch: 772579

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	9.69		mg/L		97	90 - 119

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 772579

Client Sample ID: HEN_49
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Fluoride	0.17		5.00	5.28		mg/L		102	75 - 125

Lab Sample ID: 500-251407-9 MSD
Matrix: Water
Analysis Batch: 772579

Client Sample ID: HEN_49
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluoride	0.17		5.00	5.30		mg/L		103	75 - 125	0	20

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_21R

Date Collected: 05/30/24 10:05

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 16:11
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 16:42
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		5	772584	RN	EET CHI	06/13/24 14:05
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 15:03
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 09:41
Total/NA	Analysis	300.0		5	770925	W1T	EET CHI	06/04/24 19:08
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 11:01
Total/NA	Analysis	SM 2540C		1	770742	CLB	EET CHI	06/03/24 21:59
Total/NA	Analysis	SM 4500 F C		1	771513	SO	EET CHI	06/06/24 13:32
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 10:05

Client Sample ID: HEN_22

Date Collected: 05/30/24 13:50

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 16:36
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 16:54
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		5	772584	RN	EET CHI	06/13/24 14:16
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 15:21
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 09:49
Total/NA	Analysis	300.0		5	770925	W1T	EET CHI	06/04/24 21:13
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 11:19
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 01:39
Total/NA	Analysis	SM 4500 F C		1	771513	SO	EET CHI	06/06/24 14:36
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 13:50

Client Sample ID: HEN_22&D

Date Collected: 05/30/24 12:50

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 16:40

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_22&D

Date Collected: 05/30/24 12:50

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 17:01
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		5	772584	RN	EET CHI	06/13/24 14:23
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 15:24
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 09:52
Total/NA	Analysis	300.0		5	770925	W1T	EET CHI	06/04/24 21:44
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 11:29
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 01:41
Total/NA	Analysis	SM 4500 F C		1	771513	SO	EET CHI	06/06/24 14:41
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 12:50

Client Sample ID: HEN_23

Date Collected: 05/30/24 11:55

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 16:43
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 17:03
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		5	772584	RN	EET CHI	06/13/24 14:25
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 15:26
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 09:58
Total/NA	Analysis	300.0		5	770925	W1T	EET CHI	06/04/24 22:47
Total/NA	Analysis	300.0		50	771143	W1T	EET CHI	06/06/24 00:36
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 11:41
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 01:44
Total/NA	Analysis	SM 4500 F C		1	771513	SO	EET CHI	06/06/24 14:45
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 11:55

Client Sample ID: HEN_27

Date Collected: 05/30/24 10:20

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 16:47

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Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_27

Date Collected: 05/30/24 10:20

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 17:14
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		5	772584	RN	EET CHI	06/13/24 14:28
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 15:33
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 10:00
Total/NA	Analysis	300.0		5	770925	W1T	EET CHI	06/04/24 23:49
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 11:50
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 01:46
Total/NA	Analysis	SM 4500 F C		1	772579	SO	EET CHI	06/13/24 14:46
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 10:20

Client Sample ID: HEN_32

Date Collected: 05/30/24 09:15

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 16:51
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 17:16
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 14:30
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 10:02
Total/NA	Analysis	300.0		5	770925	W1T	EET CHI	06/05/24 00:21
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 11:59
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 01:49
Total/NA	Analysis	SM 4500 F C		1	772579	SO	EET CHI	06/13/24 14:51
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 09:15

Client Sample ID: HEN_34

Date Collected: 05/30/24 09:20

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 16:54
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 17:19
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 14:32

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_34

Date Collected: 05/30/24 09:20

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 10:04
Total/NA	Analysis	300.0		5	770925	W1T	EET CHI	06/05/24 00:52
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 12:08
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 01:52
Total/NA	Analysis	SM 4500 F C		1	772579	SO	EET CHI	06/13/24 14:55
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 09:20

Client Sample ID: HEN_35

Date Collected: 05/30/24 11:30

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 16:58
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 17:21
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		10	772584	RN	EET CHI	06/13/24 14:34
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 15:35
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 10:06
Total/NA	Analysis	300.0		5	770925	W1T	EET CHI	06/05/24 01:23
Total/NA	Analysis	300.0		50	771143	W1T	EET CHI	06/06/24 00:51
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 12:18
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 01:54
Total/NA	Analysis	SM 4500 F C		1	772579	SO	EET CHI	06/13/24 15:00
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 11:30

Client Sample ID: HEN_49

Date Collected: 05/30/24 14:00

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 17:02
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 17:32
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 14:37
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 10:08
Total/NA	Analysis	300.0		5	770925	W1T	EET CHI	06/05/24 01:54

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_49

Date Collected: 05/30/24 14:00

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 14:04
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 01:57
Total/NA	Analysis	SM 4500 F C		1	772579	SO	EET CHI	06/13/24 15:05
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 14:00

Client Sample ID: HEN_50

Date Collected: 05/30/24 12:35

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 17:27
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 17:48
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 14:56
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 10:17
Total/NA	Analysis	300.0		5	770925	W1T	EET CHI	06/05/24 04:00
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 12:27
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 02:05
Total/NA	Analysis	SM 4500 F C		1	772579	SO	EET CHI	06/13/24 15:20
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 12:35

Client Sample ID: HEN_51

Date Collected: 05/30/24 11:10

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 17:31
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 17:50
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 14:58
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 10:23
Total/NA	Analysis	300.0		5	771143	W1T	EET CHI	06/06/24 01:07
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 12:35
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 02:10
Total/NA	Analysis	SM 4500 F C		1	772579	SO	EET CHI	06/13/24 15:36
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 11:10

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-4
SDG: HEN_845_804

Client Sample ID: HEN_35_FD

Lab Sample ID: 500-251407-12

Date Collected: 05/30/24 11:30

Matrix: Water

Date Received: 05/31/24 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	200.7			771090	BDE	EET CHI	06/05/24 10:10 - 06/05/24 16:10 ¹
Total Recoverable	Analysis	200.7 Rev 4.4		1	772201	SJ	EET CHI	06/11/24 17:34
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772398	RN	EET CHI	06/12/24 17:52
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		10	772584	RN	EET CHI	06/13/24 15:01
Total Recoverable	Prep	3005A			771803	BDE	EET CHI	06/10/24 10:06 - 06/10/24 16:06 ¹
Total Recoverable	Analysis	6020B		1	772584	RN	EET CHI	06/13/24 15:42
Total/NA	Prep	7470A			771837	MJG	EET CHI	06/10/24 14:20 - 06/10/24 16:20 ¹
Total/NA	Analysis	7470A		1	771998	MJG	EET CHI	06/11/24 10:26
Total/NA	Analysis	300.0		5	771143	W1T	EET CHI	06/06/24 01:38
Total/NA	Analysis	300.0		100	772226	MB	EET CHI	06/12/24 13:08
Total/NA	Analysis	SM 2320B		1	770813	SO	EET CHI	06/03/24 12:45
Total/NA	Analysis	SM 2540C		1	770985	CLB	EET CHI	06/05/24 02:12
Total/NA	Analysis	SM 4500 F C		1	772579	SO	EET CHI	06/13/24 15:40
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	05/30/24 11:30

Client Sample ID: HEN_YSG_ILRIVER

Lab Sample ID: 500-251407-19

Date Collected: 04/15/24 11:45

Matrix: Water

Date Received: 05/31/24 09:21

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Field Sampling		1	771257	DN	EET CHI	04/15/24 11:45

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

Laboratory References:

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

Accreditation/Certification Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
Q45 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 590-251407-4
SDG: HEN_845_804

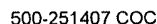
Laboratory: Eurofins Chicago

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25

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

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



581-251407

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

4.2 $\rightarrow$ 38, 4.6 $\rightarrow$ 4.2, 3.3 $\rightarrow$ 2.8
5.8 $\rightarrow$ 5.4

500-251407

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 2	
Company: Vistra Corp-Hennepin		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E 800th St Hennepin, IL 61327		Copy To: Jason Stuckey jstuckey@vistra.com Sam Davies samantha.davies@vistra.com		Company Name: Vistra Corp Address: see Section A		REGULATORY AGENCY	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.		Quote Reference		NPDES GROUND WATER DRINKING WATER	
Phone (217) 753-8911 Fax:		Project Name		Project Manager		UST RCRA OTHER	
Requested Due Date/TAT: 10 day		Project Number: 50023030		Profile #		Site Location: IL	
Valid Matrix Codes		COLLECTED		Preservatives		Requested Analysis Filtered (Y/N)	
MATRIX CODE		DATE TIME		Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₅ Methanol Other		Y/N	
SAMPLE ID (A-Z, 0-9) Sample IDs MUST BE UNIQUE		SAMPLE TYPE (G-GRAB C-COMP)		SAMPLE TEMP AT COLLECTION		[Analysis Test]	
				# OF CONTAINERS		HEN-257-802 HEN-257-803 HEN-257-804 HEN-811-801 HEN-845-802-805 HEN-845-803 HEN-845-804 HEN-WPCP-EAST HEN-WPCP-WEST HEN_000_RAD HEN_000	
						Residual Chlorine (Y/N)	
						Project No./ Lab I.D.	
HEN-45#3						X	
HEN-46						X	
HEN-47						X	
HEN-49		W/G 5/30/24 1400				X	
HEN-50		W/G 5/30/24 1235				X	
HEN-51		W/G 5/30/24 1110				X	
HEN-52						X	
HEN-54						X	
HEN-54-FB						X	
HEN-55						X	
HEN_XSG01						X	
HEN_YSG_ILRIVER						X	
HEN-FB						X	
HEN-TB						X	
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE TIME		ACCEPTED BY / AFFILIATION	
HEN-24Q2 Rev 0		Some Files		5/31/24 9:41		Power	
SAMPLER NAME AND SIGNATURE		DATE		TIME		SAMPLE CONDITIONS	
PRINT Name of SAMPLER							
SIGNATURE of SAMPLER							
DATE Signed (MM/DD/YY):							
Temp in °C							
Received on (Y/N)							
Custody Sealed (Y/N)							
Samples intact (Y/N)							

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
HEN-845-804

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-251407-4

SDG Number: HEN_845_804

Login Number: 251407

List Number: 1

Creator: Scott, Sherri L

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	
Cooler Temperature is recorded.	True	3.8,4.2,2.8,5.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

[illegible]

- *Bubbles from bladder into VSI

-sampled @ 1005

Ns/MSD: 8 bottles/sample $\rightarrow$ 24 total

PROJECT INFORMATION											
Site: <u>Hennepin</u>	Client: <u>Visra</u>	Start Date: <u>5/30/2024</u>	Time: <u>1310</u>								
Project Number: <u>A. Beckert</u>	Task #: _____	Finish Date: <u>5/30/24</u>	Time: <u>1410</u>								
Field Personnel: <u>A. Beckert</u>											
WELL INFORMATION				EVENT TYPE							
Well ID: <u>HEN-22</u>		Well Development		Low-Flow / Low Stress Sampling Other		YSI SERIAL NO					
Casing ID: _____		Well Volume Approach Sampling		(Specify): Low Flow		<u>0119764X</u>					
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>pre</u>	<u>1310</u>		<u>17.36</u>								
<u>purge</u>	<u>1315</u>		<u>17.36</u>		<u>15.4</u>	<u>7.60</u>	<u>999</u>	<u>0.32</u>	<u>1.03</u>	<u>71.4</u>	<u>Clear</u>
	<u>1320</u>		<u>17.36</u>		<u>15.7</u>	<u>7.60</u>	<u>994</u>	<u>-0.06</u>	<u>2.18</u>	<u>58.2</u>	<u>h</u>
	<u>1325</u>		<u>17.36</u>		<u>15.7</u>	<u>7.60</u>	<u>993</u>	<u>-0.10</u>	<u>4.32</u>	<u>50.7</u>	<u>h</u>
	<u>1330</u>		<u>17.37</u>		<u>15.7</u>	<u>7.60</u>	<u>992</u>	<u>-0.12</u>	<u>7.01</u>	<u>44.9</u>	<u>h</u>
	<u>1335</u>		<u>17.37</u>		<u>15.7</u>	<u>7.60</u>	<u>992</u>	<u>-0.13</u>	<u>6.71</u>	<u>37.5</u>	<u>h</u>
	<u>1340</u>		<u>17.37</u>		<u>15.7</u>	<u>7.60</u>	<u>992</u>	<u>-0.12</u>	<u>0.76</u>	<u>34.4</u>	<u>h</u>
	<u>1345</u>	<u>16</u>	<u>17.37</u>		<u>15.7</u>	<u>7.60</u>	<u>992</u>	<u>-0.13</u>	<u>0.81</u>	<u>35.7</u>	<u>h</u>
NOTES (continued)										ABBREVIATIONS	
										Cond. - Actual Conductivity FI 810C - Feet Below Top of Casing in -	
										ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units	

*sampled @ 1350

bottles

[illegible]

*sampled @ 1250
8 bottles

[illegible]

* Sampled @ 1155

gouttes

PROJECT INFORMATION											
Site: <u>Henricpin</u>	Client: <u>Visira</u>	Start Date: <u>5/30/2024</u>	Time: <u>945</u>								
Project Number: <u>00000004</u>	Task #: <u>Corne F</u>	Finish Date: <u>Same</u>	Time: <u>1020</u>								
Field Personnel: <u>Corne F</u>											
WELL INFORMATION				EVENT TYPE							
Well ID: <u>22</u>	Well Development			Low-Flow / Low Stress Sampling Other			YSI SERIAL NO				
Casing ID: <u>2"</u>	Well Volume Approach Sampling			(Specify) Low Flow			<u>117198X</u>				
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>Pre</u>	<u>0945</u>		<u>3.01</u>		<u>12.8</u>	<u>7.28</u>	<u>1.042</u>	<u>.13</u>	<u>17.37</u>	<u>18.3</u>	
<u>Purge</u>	<u>0950</u>				<u>13.1</u>	<u>7.28</u>	<u>1.041</u>	<u>.61</u>	<u>12.02</u>	<u>9.9</u>	
	<u>0955</u>				<u>13.1</u>	<u>7.28</u>	<u>1.042</u>	<u>.43</u>	<u>15.84</u>	<u>25.9</u>	
	<u>1000</u>				<u>13.1</u>	<u>7.28</u>	<u>1.042</u>	<u>.12</u>	<u>23.62</u>	<u>1.3</u>	
	<u>1005</u>				<u>13.1</u>	<u>7.28</u>	<u>1.042</u>	<u>.11</u>	<u>24.91</u>	<u>6.2</u>	
	<u>1010</u>				<u>13.5</u>	<u>7.28</u>	<u>1.039</u>	<u>.10</u>	<u>25.21</u>	<u>4.3</u>	
	<u>1015</u>				<u>13.6</u>	<u>7.28</u>	<u>1.040</u>	<u>.08</u>	<u>26.02</u>	<u>3.9</u>	
<u>Sample</u>	<u>1020</u>	<u>36gal</u>	<u>3.09</u>		<u>13.6</u>	<u>7.28</u>	<u>1.040</u>	<u>.07</u>	<u>26.98</u>	<u>3.1</u>	
NOTES (continued)										ABBREVIATIONS	
										Cond. - Actual Conductivity FT BTDC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units	

PROJECT INFORMATION											
Site:	Hennepin	Client:	Vistra	Task #:	D084						
Project Number:	Lorne Fildewicz	Start Date:	5/30/2024	Time:	8:45						
Field Personnel:	Same	Finish Date:	Same	Time:	09:15						
WELL INFORMATION											
Well ID:	32-	Well Development Well Volume Approach Sampling		EVENT TYPE							
Casing ID:	2"	(Inches)		Low-Flow / Low Stress Sampling Other YSI SERIAL NO							
						U117198X					
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. ($\mu\text{S}/\text{cm}$) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Prelim Range	0845		4.01		11.7	7.24	.881	1.04	80.97	201.8	
	0850				11.7	7.24	.883	.23	39.82	201.1	
	0855				11.7	7.24	.883	.05	21.49	199.5	
	0900				11.7	7.23	.883	.00	14.33	191.5	
	0905				11.7	7.24	.882	-0.02	9.73	196.6	
	0910				11.7	7.24	.881	-0.02	7.01	195.6	
Sample	0915	2-GAL			11.7	7.24	.880	-0.03	6.91	195.7	
NOTES (continued)							ABBREVIATIONS				
							Cond - Actual Conductivity ORP - Oxidation-Reduction Potential SEC - Specific Electrical FI BDC - Feet Below Top of Casing na = Conductance SU - Standard Units				

PROJECT INFORMATION											
Site: <u>Hemepin</u>	Client: <u>Visira</u>	Start Date: <u>5/30/2024</u>	Time: <u>0835</u>								
Project Number: <u>Alison B.</u>	Task #: _____	Finish Date: <u>5/30/24</u>	Time: <u>0930</u>								
Field Personnel: <u>Alison B.</u>											
WELL INFORMATION				EVENT TYPE							
Well ID: <u>HEN34</u>		Well Development		Low-Flow / Low Stress Sampling Other							
Casing ID: _____		Well Volume Approach Sampling		YSI SERIAL NO <u>01191988X</u>							
inches											
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU) +/- .01	SEC or Cond. (µS/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>Pre</u>	<u>0838</u>		<u>5.27</u>				<u>1214</u>				
<u>purge</u>	<u>0845</u>		<u>5.40</u>		<u>12.0</u>	<u>7.19</u>	<u>1200</u>	<u>-0.01</u>	<u>53.09</u>	<u>-41.0</u>	<u>Clear</u>
	<u>0850</u>		<u>5.34</u>		<u>12.0</u>	<u>7.18</u>	<u>1200</u>	<u>-0.04</u>	<u>19.51</u>	<u>-73.5</u>	<u>murky</u>
	<u>0855</u>		<u>5.35</u>		<u>12.0</u>	<u>7.18</u>	<u>1207</u>	<u>-0.11</u>	<u>15.24</u>	<u>-79.9</u>	<u>~</u>
	<u>0900</u>		<u>5.35</u>		<u>12.0</u>	<u>7.18</u>	<u>1209</u>	<u>-0.13</u>	<u>10.50</u>	<u>-83.8</u>	<u>~</u>
	<u>0905</u>		<u>5.30</u>		<u>12.0</u>	<u>7.17</u>	<u>1214</u>	<u>-0.14</u>	<u>7.08</u>	<u>-80.5</u>	<u>~</u>
	<u>0910</u>		<u>5.30</u>		<u>12.0</u>	<u>7.17</u>	<u>1219</u>	<u>-0.16</u>	<u>6.82</u>	<u>-83.1</u>	<u>~</u>
	<u>0915</u>	<u>2.5</u>	<u>5.30</u>		<u>12.0</u>	<u>7.17</u>	<u>1222</u>	<u>-0.16</u>	<u>6.30</u>	<u>-89.1</u>	<u>~</u>
NOTES (continued)				ABBREVIATIONS							
Cond - Actual Conductivity PT BIOC - Feet Below Top of Casing na - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units											

* no transducer

-sampled @ 0.920

8 jaxs

PROJECT INFORMATION											
Site: <u>Hemecapin</u>	Client: <u>Visira</u>	Start Date: <u>5/30/2024</u>	Time: <u>1055</u>								
Project Number: <u>0054</u>	Task #: <u>Lorne F</u>	Finish Date: <u>5/31/2024</u>	Time: <u>1130</u>								
Field Personnel: <u>Lorne F</u>											
WELL INFORMATION				EVENING TYPE							
Well ID: <u>33</u>	Well Development			Low-Flow / Low Stress Sampling Other YSI SERIAL NO							
Casing ID: <u>2"</u>	Well Volume Approach Sampling			(Specify): Low Flow <u>0117198X</u>							
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre Purge	1055		7.07		15.1	7.01	2.020	0.72	26.90	68.2	
	1100				15.0	7.01	2.018	0.35	24.83	77.9	
	1105				15.1	7.01	1.994	0.13	21.55	89.8	
	1110				15.0	7.01	1.968	0.05	23.35	98.3	
	1115				15.0	7.02	1.960	0.03	31.62	101.9	
	1120				15.1	7.01	1.957	0.02	32.94	104.9	
	1125				14.9	7.01	1.949	0.01	33.60	106.5	
Sample	1130	2 1/2	7.09		15.0	7.01	1.949	0.01	34.01	107.2	
NOTES (continued)										ABBREVIATIONS	
										ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units	

Field Dope This well

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Hennepin	Client: Vista	Task #: 0054	Start Date: 5/22/2024	Time: 1300							
Project Number: 0054	Finish Date: Same	Time: 1400									
Field Personnel: Lorne F.											
WELL INFORMATION											
Well ID: 49	Well Development: Well Volume Approach Sampling	EVENT TYPE: Low-Flow / Low Stress Sampling Other									
Casing ID: 49 2"		YSI SERIAL NO: U117198X									
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C) 10%	pH (SU) +/- .01	SEC or Cond. (µs/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1300		20.40		15.7	7.19	1.029	0.57	0.95	-48.9	
Pre	1305				15.7	7.19	1.030	0.40	1.50	-39.4	
	1310				15.8	7.18	1.030	0.13	5.50	-12.9	
	1315				15.9	7.18	1.030	0.06	10.97	-1.6	
	1320				15.8	7.18	1.030	0.07	19.55	-7.7	
	1325				15.9	7.18	1.031	0.03	26.01	17.3	
	1330				15.8	7.18	1.030	0.02	33.44	21.7	
	1335				16.0	7.18	1.030	0.02	35.46	27.7	
	1340				16.0	7.18	1.030	0.02	45.15	31.9	
	1345				16.0	7.18	1.032	0.03	52.29	36.7	
	1350				16.1	7.18	1.032	0.04	63.48	41.0	
	1355				16.1	7.18	1.031	0.04	70.18	45.1	
Sample	1400	4 GAL	20.49		16.2	7.18	1.031	0.04	76.12	49.1	
NOTES (continued)										ABBREVIATIONS	
										Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Conductance SU - Standard Units ORP - Oxidation-Reduction Potential SEC - Specific Electrical	

49 ms
49 ms SD

PROJECT INFORMATION											
Site: <u>Hennepin</u>	Client: <u>Visira</u>	Task #: <u>0054</u>	Time: <u>1205</u>								
Project Number: <u>0054</u>	Start Date: <u>1302024</u>	Finish Date: <u>Same</u>	Time: <u>1235</u>								
Field Personnel: <u>Lorne F</u>											
WELL INFORMATION				EVENT TYPE							
Well ID: <u>50</u>	Well Development			(Low-Flow / Low Stress Sampling Other YSI SERIAL NO							
Casing ID: <u>2"</u>	Well Volume Approach Sampling			(Specify): Low Flow <u>6117198x</u>							
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU) +/- .01	SEC or Cond. (µS/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
Pre	1205		17.07		14.9	7.47	4031	1.38	7.05	138.9	
Purge	1210				14.9	7.47	1032	1.10	5.31	141.9	
	1215				14.9	7.47	1036	1.01	4.41	144.8	
	1220				15.0	7.47	1035	1.61	3.29	146.4	
	1225				14.9	7.48	1037	1.20	2.09	148.3	
	1230				14.9	7.48	11036	1.18	0.94	150.6	
Sample	1235		17.10		14.9	7.48	11035	1.01	0.89	150.9	
NOTES (continued)										ABBREVIATIONS	
										Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing in - ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units	

PROJECT INFORMATION											
Site: <u>Hennepin</u>	Client: <u>Visira</u>	Start Date: <u>5/30/2024</u>	Time: <u>1030</u>								
Project Number: <u>A. Beckwith</u>	Task #: _____	Finish Date: <u>5/30/24</u>	Time: <u>1120</u>								
Field Personnel: _____											
WELL INFORMATION				EVENT TYPE							
Well ID: <u>HEN-51</u>		Well Development		Low-Flow / Low Stress Sampling Other							
Casing ID: _____		Well Volume		Well Volume Approach Sampling							
inches				(Specify): Low Flow							
WATER QUALITY INDICATOR PARAMETERS (continued)											
Sampling Stage	Time (military)	Volume Removed (gallons)	Depth to Water (Feet)	Drawdown (Feet)	Temp. (°C)	pH (SU) +/- .01	SEC or Cond. (µS/cm) 3%	Dissolved Oxygen (mg/L) 10%	Turbidity (NTU) 10%	ORP (mV) 10%	Visual Clarity
<u>pre</u>	<u>1633</u>		<u>17.02</u>								
<u>purge</u>	<u>1035</u>		<u>17.35</u>		<u>13.3</u>	<u>7.35</u>	<u>1071</u>	<u>3.45</u>	<u>17.94</u>	<u>-104.0</u>	<u>clear</u>
	<u>1040</u>		<u>17.37</u>		<u>13.1</u>	<u>7.42</u>	<u>1088</u>	<u>0.10</u>	<u>11.04</u>	<u>-124.0</u>	<u>h</u>
	<u>1045</u>		<u>17.37</u>		<u>13.0</u>	<u>7.40</u>	<u>1090</u>	<u>0.24</u>	<u>17.105</u>	<u>-133.0</u>	<u>murky</u>
	<u>1050</u>		<u>17.37</u>		<u>13.0</u>	<u>7.48</u>	<u>1088</u>	<u>0.04</u>	<u>14.97</u>	<u>-140.0</u>	<u>h</u>
	<u>1055</u>		<u>17.37</u>		<u>13.0</u>	<u>7.48</u>	<u>1088</u>	<u>-0.03</u>	<u>10.17</u>	<u>-143.4</u>	<u>h</u>
	<u>1100</u>		<u>17.37</u>		<u>13.1</u>	<u>7.48</u>	<u>1088</u>	<u>-0.03</u>	<u>15.57</u>	<u>-144.7</u>	<u>h</u>
	<u>1105</u>	<u>3</u>	<u>17.30</u>		<u>13.0</u>	<u>7.48</u>	<u>1080</u>	<u>-0.03</u>	<u>10.02</u>	<u>-145.3</u>	<u>h</u>
NOTES (continued)										ABBREVIATIONS	
										ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units	

*sampled @ 1110

bottles

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

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

Transducer data on SAR-4 form may be collected at anytime during the sampling event.

Plant: HEN

Event: HEN-24Q2 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
					Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)		
22D	HEN_22&D	4/15/24	0828	16.67	21564134	YES	449.11	Y	H	DTP: 53.69	AB
08	HEN_08	4/15/24	0925	51.12	21615138	YES	450.27	Y	H	DTP: 57.09	AB
07	HEN_07	4/15/24	1215	60.81	21615139	YES	451.4	Y	H	DTP: 72.22	AB
03R	HEN_03R	4/15/24	1055	32.35	21615140	YES	449.92	Y	H	DTP: 46.67	AB
54	HEN_54	4/15/24	1005	50.63	21615143	YES	449.83	Y	H	DTP: 48.45	AB
52	HEN_52	4/15/24	0900	51.33	21615145	YES	449.89	Y	H	DTP: 46.11	AB
18S	HEN_18#S	4/15/24	1050	37.85	21615482	YES	450.88	Y	H	DTP: 42.55	AB
32	HEN_32				21615487						
50	HEN_50	4/15/24	0820	15.37	21615489	YES	448.84	Y	H	DTP: 24.92	AB
46	HEN_46	4/15/24	0945	48.95	21615491	YES	449.46	Y	H	DTP: 55.05	AB
22	HEN_22	4/15/24	0825	15.84	21615497	YES	448.94	Y	H	DTP: 27.19	AB
17	HEN_17	4/15/24	0935	55.09	21615500	YES	452.27	Y	H	DTP: 61.79	AB
47	HEN_47	4/15/24	1000	53.22	21615505	YES	449.7	Y	H	DTP: 57.65	AB
34	HEN_34				21615509						
35	HEN_35	4/15/24	0800	5.84	21615510	YES	449.26	Y	H	DTP: 16.15	AB
13	HEN_13	4/15/24	1012	48.72	21615515	YES	449.35	Y	H	DTP: 41.90	AB
12	HEN_12	4/15/24	1015	48.75	21615520	YES	450.00	Y	H	DTP: 51.4	AB
16	HEN_16	4/15/24	0930	51.76	21615534	YES	449.81	Y	H	DTP: 60.88	AB
27	HEN_27				21615576						
08D	HEN_08&D	4/15/24	0910	51.58	21615598	YES	449.88	Y	H	DTP: 84.09	AB
23	HEN_23	4/15/24	0835	14.43	21615600	YES	449.24	Y	H	DTP: 35.37	AB
51	HEN_51	4/15/24	0840	15.90	21615608	YES	449.21	Y	H	DTP: 58.33	AB
18D	HEN_18&D	4/15/24	1052	38.02	21615609	YES	449.37	Y	H	DTP: 72.12	AB
55	HEN_55	4/15/24	1010	49.47	21615612	YES	449.50	Y	H	DTP: 92.45	AB
21R	HEN_21R	4/15/24	0845	3.31	21615613	YES	449.09	Y	H	DTP: 45.32	AB
49	HEN_49	4/15/24	0832	19.15	21629307	YES	449.28	Y	H	DTP: 38.62	AB
XSG01	HEN_XSG01	4/15/24	0955	10.42	21768087	YES	483.46	Y	H		AB
SG02	HEN_YSG_ILRIVER	4/15/24	1145	19.85	21768088	YES	13.16	Y	H		AB

U: 12/19/23 JRK

SAR-3: Episodic Depth to Groundwater Measurements

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

Plant: HEN
Event: HEN-24Q2 Rev 1

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
02	HEN_02					
04R	HEN_04R					
05R	HEN_05R					
05DR	HEN_05&DR					
06	HEN_06					
10	HEN_10					
11	HEN_11					
15	HEN_15					
19SR	HEN_19#SR					
19D	HEN_19&D					
No 25 Samp.	HEN_25	5/30/24	0745	14.56	DTP: 18.09	AB
No 26 Samp.	HEN_26	5/30/24	0745	14.55	DTP: 27.32	AB
No 30 Samp.	HEN_30	5/29/24	0730	5.20	DTP: 21.29	AB
No 31 Samp.	HEN_31	5/30/24	0730	5.22	DTP: 10.23	AB
No 33 Samp.	HEN_33	5/30/24	0710	2.58	DTB: 38.20	AB
36 No Samp.	HEN_36	5/30/24	0640	13.99	DTB: 28.83	AB
40S	HEN_40#S					
45S	HEN_45#S					
48R	HEN_48R					
XPW01	HEN_XPW01_pore					
XPW02	HEN_XPW02_pore					
XPW03	HEN_XPW03_pore					
SG02	HEN_YSG_ILRIVER					

U: 04/02/24-JRK

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

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

Transducer data on SAR-4 form may be collected at anytime during the sampling event.

Plant: HEN

Event: HEN-24Q2 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
					Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)		
22D	HEN_22&D	5/30/24	0800	18.02	21564134	Y	447.68	Y	H	DTP: 53.49	AB
08	HEN_08			18.02	21615138						
07	HEN_07				21615139						
03R	HEN_03R				21615140						
54	HEN_54				21615143						
52	HEN_52				21615145						
18S	HEN_18#S				21615482						
32	HEN_32	5/30/24	0705	3.89	21615487	Y	447.79	Y	H	DTP: 13.29	AB
50	HEN_50	5/30/24	0755	17.01	21615489	Y	447.15	Y	H	DTP: 25.01	AB
46	HEN_46				21615491						
22	HEN_22	5/30/24	0755	11.02	21615497	Y	447.35	Y	H	DTP: 27.38	AB
17	HEN_17				21615500						
47	HEN_47				21615505						
34	HEN_34	5/30/24	0830	5.27	21615509	NO	transducer				DTP: 30.2
35	HEN_35	5/30/24	0145	17.01	21615510	Y	448.08	Y	H	DTP: 16.23	AB
13	HEN_13				21615515						
12	HEN_12				21615520						
16	HEN_16				21615534						
27	HEN_27	5/30/24	0455	2.92	21615576	Y	447.88	Y	H	DTP: 30.32	AB
08D	HEN_08&D				21615598						
23	HEN_23	5/30/24	0805	11.57	21615600	Y	448.07	Y	H	DTP: 38.05	AB
51	HEN_51	5/30/24	0810	17.33	21615608	Y	447.94	Y	H	DTP: 58.03	AB
18D	HEN_18&D				21615609						
55	HEN_55				21615612		447.68				
21R	HEN_21R	5/30/24	0815	4.08	21615613	Y	448.07	Y	H	DTP: 45.54	AB
49	HEN_49	5/30/24	0805	20.39	21629307	Y	448.07	Y	H	DTP: 38.38	AB
XSG01	HEN_XSG01				21768087						
SG02	HEN_YSG_ILRIVER				21768088						

U: 12/19/23 JRK

ANALYTICAL REPORT

PREPARED FOR

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

Generated 07/01/24 16:51:15

JOB DESCRIPTION

HEN-24Q2
HEN_000_RAD

JOB NUMBER

500-251407-2

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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07/01/24 16:51:15

Authorized for release by
Dirk Nelson, Project Management Assistant II
Dirk.Nelson@et.eurofinsus.com
(708)534-5200

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Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project: HEN-24Q2

Job ID: 500-251407-2

Job ID: 500-251407-2

Eurofins Chicago

Job Narrative 500-251407-2

Receipt

The samples were received on 05/31/24 09:21. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.8° C, 3.8° C, 4.2° C and 5.4° C.

Receipt Exceptions

The following samples (MS/MSD and FD) were submitted for analysis; however, it was not listed on the Chain-of-Custody. HEN_21R (500-251407-1[MS]), HEN_21R (500-251407-1[MSD]), HEN_49 (500-251407-9[MS]), HEN_49 (500-251407-9[MSD]) and HEN_35_FD (500-251407-12)

RAD

Methods 903.0, 9315: Radium-226 prep batch 160-664619: The Ra-226 laboratory control sample (LCS) associated with the following samples recovered at 74%: (LCS 160-664619/2-A). The limits in our LIMS system at (75-125%) reflect the requirements of a regulatory agency that represents a large amount of our work. However the samples associated with this LCS are not from this agency and are therefore held to our in-house statistical limits of (71-117%). The LCS is within criteria and no further action is required.

Method 904.0: Radium-228 prep batch 160-664622: The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: HEN_32 (500-251407-6) . Analytical results are reported with the detection limit achieved.

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

Eurofins Chicago

Detection Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R	Lab Sample ID: 500-251407-1
☐ No Detections.	
Client Sample ID: HEN_22	Lab Sample ID: 500-251407-2
☐ No Detections.	
Client Sample ID: HEN_22&D	Lab Sample ID: 500-251407-3
☐ No Detections.	
Client Sample ID: HEN_23	Lab Sample ID: 500-251407-4
☐ No Detections.	
Client Sample ID: HEN_27	Lab Sample ID: 500-251407-5
☐ No Detections.	
Client Sample ID: HEN_32	Lab Sample ID: 500-251407-6
☐ No Detections.	
Client Sample ID: HEN_34	Lab Sample ID: 500-251407-7
☐ No Detections.	
Client Sample ID: HEN_35	Lab Sample ID: 500-251407-8
☐ No Detections.	
Client Sample ID: HEN_49	Lab Sample ID: 500-251407-9
☐ No Detections.	
Client Sample ID: HEN_50	Lab Sample ID: 500-251407-10
☐ No Detections.	
Client Sample ID: HEN_51	Lab Sample ID: 500-251407-11
☐ No Detections.	
Client Sample ID: HEN_35_FD	Lab Sample ID: 500-251407-12
☐ No Detections.	

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 590-251407-2
SDG: HEN_000_RAD

Method	Method Description	Protocol	Laboratory
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
Ra226_Ra228 Pos	Combined Radium-226 and Radium-228	TAL-STL	EET SL
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL

Protocol References:

EPA = US Environmental Protection Agency
None = None
TAL-STL = TestAmerica Laboratories, St. Louis, Facility Standard Operating Procedure.

Laboratory References:

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

Sample Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-251407-1	HEN_21R	Water	05/30/24 10:05	05/31/24 09:21
500-251407-2	HEN_22	Water	05/30/24 13:50	05/31/24 09:21
500-251407-3	HEN_22&D	Water	05/30/24 12:50	05/31/24 09:21
500-251407-4	HEN_23	Water	05/30/24 11:55	05/31/24 09:21
500-251407-5	HEN_27	Water	05/30/24 10:20	05/31/24 09:21
500-251407-6	HEN_32	Water	05/30/24 09:15	05/31/24 09:21
500-251407-7	HEN_34	Water	05/30/24 09:20	05/31/24 09:21
500-251407-8	HEN_35	Water	05/30/24 11:30	05/31/24 09:21
500-251407-9	HEN_49	Water	05/30/24 14:00	05/31/24 09:21
500-251407-10	HEN_50	Water	05/30/24 12:35	05/31/24 09:21
500-251407-11	HEN_51	Water	05/30/24 11:10	05/31/24 09:21
500-251407-12	HEN_35_FD	Water	05/30/24 11:30	05/31/24 09:21

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R

Lab Sample ID: 500-251407-1

Date Collected: 05/30/24 10:05

Matrix: Water

Date Received: 05/31/24 09:21

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.683		0.262	0.269	1.00	0.254	pCi/L	06/04/24 08:17	06/27/24 23:49	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					06/04/24 08:17	06/27/24 23:49	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.887		0.501	0.508	1.00	0.707	pCi/L	06/04/24 08:23	06/26/24 11:33	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					06/04/24 08:23	06/26/24 11:33	1
Y Carrier	77.8		30 - 110					06/04/24 08:23	06/26/24 11:33	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.57		0.565	0.575	5.00	0.707	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22

Date Collected: 05/30/24 13:50

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-2

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0398	U	0.0721	0.0722	1.00	0.130	pCi/L	06/04/24 08:25	06/27/24 17:01	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					06/04/24 08:25	06/27/24 17:01	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.562	U	0.393	0.397	1.00	0.593	pCi/L	06/04/24 08:28	06/24/24 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.8		30 - 110					06/04/24 08:28	06/24/24 12:47	1
Y Carrier	84.9		30 - 110					06/04/24 08:28	06/24/24 12:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.602		0.400	0.404	5.00	0.593	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_22&D

Lab Sample ID: 500-251407-3

Date Collected: 05/30/24 12:50

Matrix: Water

Date Received: 05/31/24 09:21

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.856		0.225	0.237	1.00	0.202	pCi/L	06/04/24 08:25	06/27/24 17:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					06/04/24 08:25	06/27/24 17:19	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	1.21		0.501	0.514	1.00	0.636	pCi/L	06/04/24 08:28	06/24/24 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	92.0		30 - 110					06/04/24 08:28	06/24/24 12:47	1
Y Carrier	67.7		30 - 110					06/04/24 08:28	06/24/24 12:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	2.07		0.549	0.566	5.00	0.636	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_23

Date Collected: 05/30/24 11:55

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-4

Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.00546	U	0.0825	0.0825	1.00	0.166	pCi/L	06/04/24 08:25	06/27/24 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					06/04/24 08:25	06/27/24 17:09	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	-0.230	U	0.254	0.255	1.00	0.560	pCi/L	06/04/24 08:28	06/24/24 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.8		30 - 110					06/04/24 08:28	06/24/24 12:47	1
Y Carrier	83.4		30 - 110					06/04/24 08:28	06/24/24 12:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.00546	U	0.267	0.268	5.00	0.560	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_27

Lab Sample ID: 500-251407-5

Date Collected: 05/30/24 10:20

Matrix: Water

Date Received: 05/31/24 09:21

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.104	U	0.114	0.114	1.00	0.183	pCi/L	06/04/24 08:25	06/27/24 17:09	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					06/04/24 08:25	06/27/24 17:09	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.301	U	0.340	0.341	1.00	0.555	pCi/L	06/04/24 08:28	06/24/24 12:47	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	88.5		30 - 110					06/04/24 08:28	06/24/24 12:47	1
Y Carrier	80.0		30 - 110					06/04/24 08:28	06/24/24 12:47	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.405	U	0.359	0.360	5.00	0.555	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_32

Lab Sample ID: 500-251407-6

Date Collected: 05/30/24 09:15

Matrix: Water

Date Received: 05/31/24 09:21

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.117	U	0.155	0.156	1.00	0.260	pCi/L	06/04/24 08:25	06/27/24 22:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.3		30 - 110					06/04/24 08:25	06/27/24 22:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.141	U G	0.574	0.574	1.00	1.03	pCi/L	06/04/24 08:28	06/24/24 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	70.3		30 - 110					06/04/24 08:28	06/24/24 12:48	1
Y Carrier	81.5		30 - 110					06/04/24 08:28	06/24/24 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.258	U	0.595	0.595	5.00	1.03	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_34

Lab Sample ID: 500-251407-7

Date Collected: 05/30/24 09:20

Matrix: Water

Date Received: 05/31/24 09:21

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.334		0.140	0.143	1.00	0.155	pCi/L	06/04/24 08:25	06/27/24 22:25	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					06/04/24 08:25	06/27/24 22:25	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.679		0.400	0.405	1.00	0.579	pCi/L	06/04/24 08:28	06/24/24 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.3		30 - 110					06/04/24 08:28	06/24/24 12:48	1
Y Carrier	80.7		30 - 110					06/04/24 08:28	06/24/24 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.01		0.424	0.430	5.00	0.579	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35

Lab Sample ID: 500-251407-8

Date Collected: 05/30/24 11:30

Matrix: Water

Date Received: 05/31/24 09:21

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.112	U	0.0970	0.0975	1.00	0.145	pCi/L	06/04/24 08:25	06/27/24 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					06/04/24 08:25	06/27/24 22:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.179	U	0.322	0.322	1.00	0.555	pCi/L	06/04/24 08:28	06/24/24 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	96.0		30 - 110					06/04/24 08:28	06/24/24 12:48	1
Y Carrier	79.6		30 - 110					06/04/24 08:28	06/24/24 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.291	U	0.336	0.336	5.00	0.555	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_49

Lab Sample ID: 500-251407-9

Date Collected: 05/30/24 14:00

Matrix: Water

Date Received: 05/31/24 09:21

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.184		0.126	0.127	1.00	0.177	pCi/L	06/04/24 08:25	06/27/24 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					06/04/24 08:25	06/27/24 22:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.603		0.400	0.404	1.00	0.593	pCi/L	06/04/24 08:28	06/24/24 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	87.0		30 - 110					06/04/24 08:28	06/24/24 12:48	1
Y Carrier	83.4		30 - 110					06/04/24 08:28	06/24/24 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.787		0.419	0.423	5.00	0.593	pCi/L		07/01/24 14:06	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_50

Lab Sample ID: 500-251407-10

Date Collected: 05/30/24 12:35

Matrix: Water

Date Received: 05/31/24 09:21

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.319		0.148	0.150	1.00	0.175	pCi/L	06/04/24 08:25	06/27/24 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					06/04/24 08:25	06/27/24 22:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.902		0.394	0.403	1.00	0.513	pCi/L	06/04/24 08:28	06/24/24 12:48	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	94.0		30 - 110					06/04/24 08:28	06/24/24 12:48	1
Y Carrier	84.1		30 - 110					06/04/24 08:28	06/24/24 12:48	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	1.22		0.421	0.430	5.00	0.513	pCi/L		07/01/24 14:38	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_51

Lab Sample ID: 500-251407-11

Date Collected: 05/30/24 11:10

Matrix: Water

Date Received: 05/31/24 09:21

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.652		0.180	0.189	1.00	0.145	pCi/L	06/04/24 08:25	06/27/24 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		30 - 110					06/04/24 08:25	06/27/24 22:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.255	U	0.380	0.381	1.00	0.642	pCi/L	06/04/24 08:28	06/24/24 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	89.0		30 - 110					06/04/24 08:28	06/24/24 12:39	1
Y Carrier	82.2		30 - 110					06/04/24 08:28	06/24/24 12:39	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.906		0.420	0.425	5.00	0.642	pCi/L		07/01/24 14:38	1

Client Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
245 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_35_FD

Lab Sample ID: 500-251407-12

Date Collected: 05/30/24 11:30

Matrix: Water

Date Received: 05/31/24 09:21

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.0665	U	0.100	0.101	1.00	0.172	pCi/L	06/04/24 08:25	06/27/24 22:38	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					06/04/24 08:25	06/27/24 22:38	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.808		0.392	0.399	1.00	0.532	pCi/L	06/04/24 08:28	06/24/24 12:39	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	93.0		30 - 110					06/04/24 08:28	06/24/24 12:39	1
Y Carrier	81.5		30 - 110					06/04/24 08:28	06/24/24 12:39	1

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

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium 226 and 228	0.875		0.405	0.412	5.00	0.532	pCi/L		07/01/24 14:38	1

Definitions/Glossary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-251407-2
JEN-184580-
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Rad

Prep Batch: 664619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	PrecSep-21	
MB 160-664619/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-664619/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-251407-1 MS	HEN_21R	Total/NA	Water	PrecSep-21	
500-251407-1 MSD	HEN_21R	Total/NA	Water	PrecSep-21	

Prep Batch: 664620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-1	HEN_21R	Total/NA	Water	PrecSep_0	
MB 160-664620/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-664620/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-251407-1 MS	HEN_21R	Total/NA	Water	PrecSep_0	
500-251407-1 MSD	HEN_21R	Total/NA	Water	PrecSep_0	

Prep Batch: 664621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-2	HEN_22	Total/NA	Water	PrecSep-21	
500-251407-3	HEN_22&D	Total/NA	Water	PrecSep-21	
500-251407-4	HEN_23	Total/NA	Water	PrecSep-21	
500-251407-5	HEN_27	Total/NA	Water	PrecSep-21	
500-251407-6	HEN_32	Total/NA	Water	PrecSep-21	
500-251407-7	HEN_34	Total/NA	Water	PrecSep-21	
500-251407-8	HEN_35	Total/NA	Water	PrecSep-21	
500-251407-9	HEN_49	Total/NA	Water	PrecSep-21	
500-251407-10	HEN_50	Total/NA	Water	PrecSep-21	
500-251407-11	HEN_51	Total/NA	Water	PrecSep-21	
500-251407-12	HEN_35_FD	Total/NA	Water	PrecSep-21	
MB 160-664621/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-664621/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	
500-251407-9 MS	HEN_49	Total/NA	Water	PrecSep-21	
500-251407-9 MSD	HEN_49	Total/NA	Water	PrecSep-21	

Prep Batch: 664622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-251407-2	HEN_22	Total/NA	Water	PrecSep_0	
500-251407-3	HEN_22&D	Total/NA	Water	PrecSep_0	
500-251407-4	HEN_23	Total/NA	Water	PrecSep_0	
500-251407-5	HEN_27	Total/NA	Water	PrecSep_0	
500-251407-6	HEN_32	Total/NA	Water	PrecSep_0	
500-251407-7	HEN_34	Total/NA	Water	PrecSep_0	
500-251407-8	HEN_35	Total/NA	Water	PrecSep_0	
500-251407-9	HEN_49	Total/NA	Water	PrecSep_0	
500-251407-10	HEN_50	Total/NA	Water	PrecSep_0	
500-251407-11	HEN_51	Total/NA	Water	PrecSep_0	
500-251407-12	HEN_35_FD	Total/NA	Water	PrecSep_0	
MB 160-664622/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-664622/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	
500-251407-9 MS	HEN_49	Total/NA	Water	PrecSep_0	
500-251407-9 MSD	HEN_49	Total/NA	Water	PrecSep_0	

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-664619/1-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664619

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.01055	U	0.0779	0.0779	1.00	0.162	pCi/L	06/04/24 08:17	06/27/24 23:30	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	100		30 - 110					06/04/24 08:17	06/27/24 23:30	1

Lab Sample ID: LCS 160-664619/2-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664619

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	8.427		1.03	1.00	0.173	pCi/L	74	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	95.5		30 - 110							

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 668351

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 664619

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.683		15.1	12.43		1.48	1.00	0.228	pCi/L	78	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	94.8		30 - 110								

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 668351

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 664619

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.683		15.1	12.98		1.56	1.00	0.321	pCi/L	81	60 - 140	0.18	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	86.3		30 - 110										

Lab Sample ID: MB 160-664621/1-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664621

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.03495	U	0.0598	0.0599	1.00	0.107	pCi/L	06/04/24 08:25	06/27/24 17:00	1

Eurofins Chicago

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

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

Lab Sample ID: MB 160-664621/1-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664621

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Ba Carrier	95.5		30 - 110	06/04/24 08:25	06/27/24 17:00	1

Lab Sample ID: LCS 160-664621/2-A
Matrix: Water
Analysis Batch: 668232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664621

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	11.3	10.07		1.12	1.00	0.136	pCi/L	89	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	93.5		30 - 110						

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 668351

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 664621

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226	0.184		11.4	9.475		1.06	1.00	0.149	pCi/L	82	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	97.3		30 - 110								

Lab Sample ID: 500-251407-9 MSD
Matrix: Water
Analysis Batch: 668351

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 664621

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-226	0.184		11.3	10.29		1.14	1.00	0.129	pCi/L	89	60 - 140	0.37	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	96.8		30 - 110										

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-664620/1-A
Matrix: Water
Analysis Batch: 668086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664620

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.4604	U	0.353	0.356	1.00	0.547	pCi/L	06/04/24 08:23	06/26/24 12:17	1
Carrier	MB %Yield	MB Qualifier	Limits							
Ba Carrier	100		30 - 110							

Eurofins Chicago

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

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

Lab Sample ID: MB 160-664620/1-A
Matrix: Water
Analysis Batch: 668086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664620

Carrier	MB %Yield	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Y Carrier	84.5		30 - 110	06/04/24 08:23	06/26/24 12:17	1

Lab Sample ID: LCS 160-664620/2-A
Matrix: Water
Analysis Batch: 668086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664620

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.82	9.518		1.63	1.00	1.04	pCi/L	108	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Ba Carrier	95.5		30 - 110						
Y Carrier	83.7		30 - 110						

Lab Sample ID: 500-251407-1 MS
Matrix: Water
Analysis Batch: 668085

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 664620

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	0.887		11.8	13.62		1.78	1.00	0.620	pCi/L	108	60 - 140
Carrier	MS %Yield	MS Qualifier	Limits								
Ba Carrier	94.8		30 - 110								
Y Carrier	83.0		30 - 110								

Lab Sample ID: 500-251407-1 MSD
Matrix: Water
Analysis Batch: 668085

Client Sample ID: HEN_21R
Prep Type: Total/NA
Prep Batch: 664620

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.887		11.8	14.48		1.91	1.00	0.726	pCi/L	116	60 - 140	0.23	1
Carrier	MSD %Yield	MSD Qualifier	Limits										
Ba Carrier	86.3		30 - 110										
Y Carrier	82.2		30 - 110										

Lab Sample ID: MB 160-664622/1-A
Matrix: Water
Analysis Batch: 667706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664622

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.7624		0.412	0.417	1.00	0.587	pCi/L	06/04/24 08:28	06/24/24 12:46	1

QC Sample Results

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 500-251407-2
SDG: HEN_000_RAD

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

Lab Sample ID: MB 160-664622/1-A
Matrix: Water
Analysis Batch: 667706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 664622

	MB	MB	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	95.5		30 - 110
Y Carrier	81.9		30 - 110

Prepared	Analyzed	Dil Fac
06/04/24 08:28	06/24/24 12:46	1
06/04/24 08:28	06/24/24 12:46	1

Lab Sample ID: LCS 160-664622/2-A
Matrix: Water
Analysis Batch: 667706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 664622

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	8.82	10.41		1.41	1.00	0.580	pCi/L	118	75 - 125

	LCS	LCS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	93.5		30 - 110
Y Carrier	81.5		30 - 110

Lab Sample ID: 500-251407-9 MS
Matrix: Water
Analysis Batch: 667706

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 664622

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228	0.603		8.85	9.568		1.32	1.00	0.531	pCi/L	101	60 - 140

	MS	MS	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	97.3		30 - 110
Y Carrier	82.2		30 - 110

Lab Sample ID: 500-251407-9 MSD
Matrix: Water
Analysis Batch: 667706

Client Sample ID: HEN_49
Prep Type: Total/NA
Prep Batch: 664622

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits	RER	RER Limit
Radium-228	0.603		8.83	10.48		1.41	1.00	0.618	pCi/L	112	60 - 140	0.33	1

	MSD	MSD	
Carrier	%Yield	Qualifier	Limits
Ba Carrier	96.8		30 - 110
Y Carrier	84.1		30 - 110

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_21R

Date Collected: 05/30/24 10:05

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664619	MLT	EET SL	06/04/24 08:17
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 23:49
Total/NA	Prep	PrecSep_0			664620	MLT	EET SL	06/04/24 08:23
Total/NA	Analysis	904.0		1	668085	FLC	EET SL	06/26/24 11:33
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_22

Date Collected: 05/30/24 13:50

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668232	SWS	EET SL	06/27/24 17:01
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_22&D

Date Collected: 05/30/24 12:50

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 17:19
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_23

Date Collected: 05/30/24 11:55

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668353	SCB	EET SL	06/27/24 17:09
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_27

Date Collected: 05/30/24 10:20

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668353	SCB	EET SL	06/27/24 17:09
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:47
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_32

Date Collected: 05/30/24 09:15

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668353	SCB	EET SL	06/27/24 22:25
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_34

Date Collected: 05/30/24 09:20

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668353	SCB	EET SL	06/27/24 22:25
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_35

Date Collected: 05/30/24 11:30

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 22:38
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Job ID: 500-251407-2
SDG: HEN_000_RAD

Client Sample ID: HEN_49

Date Collected: 05/30/24 14:00

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 22:38
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:06

Client Sample ID: HEN_50

Date Collected: 05/30/24 12:35

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 22:38
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667706	EMH	EET SL	06/24/24 12:48
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:38

Client Sample ID: HEN_51

Date Collected: 05/30/24 11:10

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 22:38
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667708	SCB	EET SL	06/24/24 12:39
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:38

Client Sample ID: HEN_35_FD

Date Collected: 05/30/24 11:30

Date Received: 05/31/24 09:21

Lab Sample ID: 500-251407-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	PrecSep-21			664621	MLT	EET SL	06/04/24 08:25
Total/NA	Analysis	903.0		1	668351	SCB	EET SL	06/27/24 22:38
Total/NA	Prep	PrecSep_0			664622	MLT	EET SL	06/04/24 08:28
Total/NA	Analysis	904.0		1	667708	SCB	EET SL	06/24/24 12:39
Total/NA	Analysis	Ra226_Ra228 Pos		1	668862	CAH	EET SL	07/01/24 14:38

Laboratory References:

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

Eurofins Chicago

Accreditation/Certification Summary

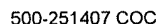
Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
Q4 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 590-251407-2
JEN-24-590-
SDG: HEN_000_RAD

Laboratory: Eurofins St. Louis

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

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	200023	11-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
903.0	PrecSep-21	Water	Radium-226
904.0	PrecSep_0	Water	Radium-228
Ra226_Ra228 Pos		Water	Radium 226 and 228



580-251407

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

4.2 $\rightarrow$ 38, 4.6 $\rightarrow$ 4.2, 3.3 $\rightarrow$ 2.8
5.8 $\rightarrow$ 5.4

500-251407

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

07/01/24



Environment Testing

Client Information (Sub Contract Lab)						Sampler:		Lab PM: Nelson, Dirk		Carrier Tracking No(s):		GOC No: 500-188896.1	
Client Contact: Shipping/Receiving						Phone:		E-Mail: Dirk.Nelson@et.eurofins.com		State of Origin: Illinois		Page: Page 1 of 2	
Company: TestAmerica Laboratories, Inc.								Accreditations Required (See note) NELAP - Illinois		Job #: 500-251407-1		Preservation Codes:	
Address: 13715 Rider Trail North,						Due Date Requested: 7/1/2024		Analysis Requested					
City: Earth City						TAT Requested (days):							
State, Zip: MO, 63045													
Phone: 314-298-8566(Tel) 314-298-8757(Fax)													
Email:						PO #:		Field Filtered Sample (Yes or No)		903.0/PrecSep_21 BB		Total Number of containers	
Project Name: HEN-24Q2						WO #:		Sample Type (C=Comp, G=grab)		904.0/PrecSep_BB		Other:	
Site: SSOW#						Project #: 50023030		Matrix (W=water, S=solid, O=wasteoil, BT=tissue, A=air)		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type	Preservation Code				
HEN_21R (500-251407-1)						5/30/24	10:05	Central	Water	X	X	Ra226_P/B	2
HEN_21R (500-251407-1MS)						5/30/24	10:05	Central	Water	X	X	903.0/PrecSep_0 BB	2
HEN_21R (500-251407-1MSD)						5/30/24	10:05	Central	Water	X	X		2
HEN_22 (500-251407-2)						5/30/24	13:50	Central	Water	X	X		2
HEN_22&D (500-251407-3)						5/30/24	12:50	Central	Water	X	X		2
HEN_23 (500-251407-4)						5/30/24	11:55	Central	Water	X	X		2
HEN_27 (500-251407-5)						5/30/24	10:20	Central	Water	X	X		2
HEN_32 (500-251407-6)						5/30/24	09:15	Central	Water	X	X		2
HEN_34 (500-251407-7)						5/30/24	09:20	Central	Water	X	X		2

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

Possible Hazard Identification
Unconfirmed

Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

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

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

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

Custody Seals Intact: _____ Custody Seal No.: _____ Cooler Temperature(s) °C and Other Remarks: _____

Client Information (Sub Contract Lab)			Lab PM	Carrier Tracking No(s)	IOC No
Client Contact:			Nelson, Dirk		500-188896 2
Shipping/Receiving			E-Mail	State of Origin:	Page
Company			Dirk Nelson@eurofins.com	Illinois	2 of 2
TestAmerica Laboratories, Inc.			Accreditations Required (See note):		
Address:			NELAP - Illinois		
City			Job #		
Earth City			500-251407-1		
State, Zip			Preservation Codes:		
MO, 63045					
Phone:			Analysis Requested		
314-298-8566(Tel) 314-298-8757(Fax)					
Email:					
Project Name:					
HEN-24Q2					
Site:					
SSOW#					
Sample Date			Field Filtered Sample (Yes or No)		
Sample Time			Perform MS/MSD (Yes or No)		
Sample Type (G=grab)			903.0/PrecSep_21 BB		
Matrix (W=water, S=solid, O=oil)			904.0/PrecSep_0 BB		
Sample ID (Lab ID)			Ra226_228GFP_C/BB		
Sample Date			Total Number of containers		
Sample Time					
Sample Type (G=grab)					
Matrix (W=water, S=solid, O=oil)					
Sample ID (Lab ID)					
Sample Date					
Sample Time					
Sample Type (G=grab)					
Matrix (W=water, S=solid, O=oil)					
Sample ID (Lab ID)					
Sample Date					
Sample Time					
Sample Type (G=grab)					
Matrix (W=water, S=solid, O=oil)					
Sample ID (Lab ID)					
Sample Date					
Sample Time					
Sample Type (G=grab)					
Matrix (W=water, S=solid, O=oil)					
Sample ID (Lab ID)					
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Matrix (W=water, S=solid, O=oil)					
Sample ID (Lab ID)					
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Sample Type (G=grab)					
Matrix (W=water, S=solid, O=oil)					
Sample ID (Lab ID)					
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Matrix (W=water, S=solid, O=oil)					
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Matrix (W=water, S=solid, O=oil)					
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Sample Type (G=grab)					
Matrix (W=water, S=solid, O=oil)					
Sample ID (Lab ID)					
Sample Date					
Sample Time					
Sample Type (G=grab)					
Matrix (W=water, S=solid, O=oil)					
Sample ID (Lab ID)					
Sample Date					
Sample Time					
Sample Type (G=grab)					
Matrix (W=water, S=solid, O=oil)					
Sample ID (Lab ID)					
Sample Date					
Sample Time					
Sample Type (G=grab)					
Matrix (W=water, S=solid, O=oil)					
Sample ID (Lab ID)					
Sample Date					
Sample Time					
Sample Type (G=grab)					

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
HEN-845-804

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-251407-2
SDG Number: HEN_000_RAD

Login Number: 251407

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8,4.2,2.8,5.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
HEN-845-804

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-251407-2
SDG Number: HEN_000_RAD

Login Number: 251407

List Number: 2

Creator: Pinette, Meadow L

List Source: Eurofins St. Louis

List Creation: 06/03/24 12:57 PM

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

Tracer/Carrier Summary

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM

Job ID: 500-251407-2
SDG: HEN_000_RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba					
Lab Sample ID	Client Sample ID	(30-110)					
500-251407-1	HEN_21R	87.0					
500-251407-1 MS	HEN_21R	94.8					
500-251407-1 MSD	HEN_21R	86.3					
500-251407-2	HEN_22	88.8					
500-251407-3	HEN_22&D	92.0					
500-251407-4	HEN_23	87.8					
500-251407-5	HEN_27	88.5					
500-251407-6	HEN_32	70.3					
500-251407-7	HEN_34	94.3					
500-251407-8	HEN_35	96.0					
500-251407-9	HEN_49	87.0					
500-251407-9 MS	HEN_49	97.3					
500-251407-9 MSD	HEN_49	96.8					
500-251407-10	HEN_50	94.0					
500-251407-11	HEN_51	89.0					
500-251407-12	HEN_35_FD	93.0					
LCS 160-664619/2-A	Lab Control Sample	95.5					
LCS 160-664621/2-A	Lab Control Sample	93.5					
MB 160-664619/1-A	Method Blank	100					
MB 160-664621/1-A	Method Blank	95.5					

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
		Ba		Y			
Lab Sample ID	Client Sample ID	(30-110)	(30-110)				
500-251407-1	HEN_21R	87.0	77.8				
500-251407-1 MS	HEN_21R	94.8	83.0				
500-251407-1 MSD	HEN_21R	86.3	82.2				
500-251407-2	HEN_22	88.8	84.9				
500-251407-3	HEN_22&D	92.0	67.7				
500-251407-4	HEN_23	87.8	83.4				
500-251407-5	HEN_27	88.5	80.0				
500-251407-6	HEN_32	70.3	81.5				
500-251407-7	HEN_34	94.3	80.7				
500-251407-8	HEN_35	96.0	79.6				
500-251407-9	HEN_49	87.0	83.4				
500-251407-9 MS	HEN_49	97.3	82.2				
500-251407-9 MSD	HEN_49	96.8	84.1				
500-251407-10	HEN_50	94.0	84.1				
500-251407-11	HEN_51	89.0	82.2				
500-251407-12	HEN_35_FD	93.0	81.5				
LCS 160-664620/2-A	Lab Control Sample	95.5	83.7				
LCS 160-664622/2-A	Lab Control Sample	93.5	81.5				
MB 160-664620/1-A	Method Blank	100	84.5				
MB 160-664622/1-A	Method Blank	95.5	81.9				

Eurofins Chicago

Tracer/Carrier Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
HENNEPIN POWER PLANT, WEST ASH POND SYSTEM
Job ID: 590-251407-2
JEN-24-590-
SDG: HEN_000_RAD

Client: Vistra Energy Corp
Project/Site: HEN-24Q2

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

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

ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 2, 2024

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
21/21R	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.003	0.001
21/21R	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	31	0	CB around linear reg	0.0251	0.001
21/21R	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	31	0	CB around linear reg	0.317	0.156
21/21R	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.001	0.001
21/21R	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	32	0	CB around T-S line	1.81	0.205
21/21R	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.0005	0.001
21/21R	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	99.9	108
21/21R	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	31	64	CB around T-S line	0.0015	0.00130
21/21R	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	31	70	CB around T-S line	0.001	0.00170
21/21R	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	32	8	CI around median	0.14	0.170
21/21R	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	31	48	CB around T-S line	0.00153	0.001
21/21R	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	31	0	CB around linear reg	0.0226	0.0140
21/21R	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	31	97	CI around median	0.0002	0.0002
21/21R	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	31	3	CB around linear reg	0.00778	0.00200
21/21R	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	34	0	CI around mean	7.4/7.5	6.7/7.4
21/21R	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	24	0	CI around mean	0.893	2.60
21/21R	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.0025	0.00110
21/21R	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	55.6	117
21/21R	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.002	0.001
21/21R	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	32	0	CB around T-S line	638	830
22	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	34	92	CB around T-S line	0.001	0.001
22	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	38	72	CI around median	0.001	0.001
22	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	34	0	CI around median	0.063	0.156
22	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.001	0.001
22	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	39	0	CB around T-S line	2.82	0.205
22	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	34	8	CB around T-S line	0.00525	0.001
22	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	41	0	CB around T-S line	90.9	108

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
22	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.005	0.00130
22	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	34	8	CI around mean	0.00193	0.00170
22	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	34	5	CI around median	0.15	0.170
22	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	34	97	CI around median	0.001	0.001
22	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	38	0	CB around T-S line	0.042	0.0140
22	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0002	0.0002
22	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	38	0	CB around T-S line	0.0615	0.00200
22	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	37	0	CI around median	7.6/7.7	6.7/7.4
22	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	25	0	CI around mean	0.385	2.60
22	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	34	6	CI around mean	0.0132	0.00110
22	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	41	0	CB around linear reg	94.4	117
22	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	34	94	CB around T-S line	0.002	0.001
22	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	41	0	CB around linear reg	584	830
22D	UA	E005	Antimony, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.003	0.001
22D	UA	E005	Arsenic, total	mg/L	09/17/19 - 05/30/24	18	11	CI around median	0.0012	0.001
22D	UA	E005	Barium, total	mg/L	09/17/19 - 05/30/24	18	0	CB around T-S line	0.0678	0.156
22D	UA	E005	Beryllium, total	mg/L	09/17/19 - 05/30/24	17	100	All ND - Last	0.001	0.001
22D	UA	E005	Boron, total	mg/L	09/17/19 - 05/30/24	18	0	CB around linear reg	1.12	0.205
22D	UA	E005	Cadmium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.0005	0.001
22D	UA	E005	Chloride, total	mg/L	09/17/19 - 05/30/24	18	0	CB around linear reg	95.7	108
22D	UA	E005	Chromium, total	mg/L	09/17/19 - 05/30/24	18	89	CB around T-S line	0.0015	0.00130
22D	UA	E005	Cobalt, total	mg/L	09/17/19 - 05/30/24	18	94	CI around median	0.001	0.00170
22D	UA	E005	Fluoride, total	mg/L	09/17/19 - 05/30/24	18	11	CI around median	0.11	0.170
22D	UA	E005	Lead, total	mg/L	09/17/19 - 05/30/24	18	89	CI around median	0.001	0.001
22D	UA	E005	Lithium, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	0.0148	0.0140
22D	UA	E005	Mercury, total	mg/L	12/11/19 - 05/30/24	17	100	All ND - Last	0.0002	0.0002
22D	UA	E005	Molybdenum, total	mg/L	09/17/19 - 05/30/24	18	6	CI around geomean	0.00659	0.00200

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
22D	UA	E005	pH (field)	SU	09/17/19 - 05/30/24	21	0	CI around mean	7.2/7.3	6.7/7.4
22D	UA	E005	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 05/30/24	15	0	CI around mean	0.728	2.60
22D	UA	E005	Selenium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.0025	0.00110
22D	UA	E005	Sulfate, total	mg/L	09/17/19 - 05/30/24	18	0	CB around linear reg	86.4	117
22D	UA	E005	Thallium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.002	0.001
22D	UA	E005	Total Dissolved Solids	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	608	830
23	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.003	0.001
23	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	38	90	CB around T-S line	0.001	0.001
23	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	34	0	CB around T-S line	0.037	0.156
23	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.001	0.001
23	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	39	0	CB around T-S line	8.3	0.205
23	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.0005	0.001
23	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	41	1	CB around T-S line	50.6	108
23	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.005	0.00130
23	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.001	0.00170
23	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	34	5	CI around median	0.15	0.170
23	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.0005	0.001
23	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	38	8	CI around median	0.0048	0.0140
23	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0002	0.0002
23	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	38	0	CI around median	0.0147	0.00200
23	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	36	0	CI around mean	7.4/7.5	6.7/7.4
23	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	25	0	CI around mean	0.252	2.60
23	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.0025	0.00110
23	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	41	0	CI around median	423	117
23	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	34	100	All ND - Last	0.002	0.001
23	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	41	0	CI around mean	887	830
24/51	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.003	0.001

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
24/51	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	36	0	CI around mean	0.0204	0.001
24/51	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	32	0	CB around linear reg	0.11	0.156
24/51	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.001	0.001
24/51	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	37	0	CB around linear reg	1.27	0.205
24/51	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0005	0.001
24/51	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	39	0	CB around linear reg	105	108
24/51	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	32	76	CB around T-S line	0.00169	0.00130
24/51	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	32	74	CI around median	0.001	0.00170
24/51	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	32	6	CI around median	0.14	0.170
24/51	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	32	62	CB around T-S line	0.001	0.001
24/51	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	36	0	CB around T-S line	0.024	0.0140
24/51	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	31	100	All ND - Last	0.0002	0.0002
24/51	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	36	3	CI around mean	0.00976	0.00200
24/51	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	34	0	CB around linear reg	7.2/7.4	6.7/7.4
24/51	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	24	0	CB around linear reg	1.24	2.60
24/51	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0025	0.00110
24/51	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	39	0	CB around linear reg	79.7	117
24/51	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.002	0.001
24/51	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	39	0	CI around mean	621	830
27	UA	E005	Antimony, total	mg/L	09/12/18 - 05/30/24	21	100	All ND - Last	0.003	0.001
27	UA	E005	Arsenic, total	mg/L	09/12/18 - 05/30/24	21	61	CI around median	0.001	0.001
27	UA	E005	Barium, total	mg/L	09/12/18 - 05/30/24	21	0	CI around median	0.0838	0.156
27	UA	E005	Beryllium, total	mg/L	09/12/18 - 05/30/24	21	100	All ND - Last	0.001	0.001
27	UA	E005	Boron, total	mg/L	09/12/18 - 05/30/24	21	0	CB around linear reg	1.37	0.205
27	UA	E005	Cadmium, total	mg/L	09/12/18 - 05/30/24	21	96	CI around median	0.001	0.001
27	UA	E005	Chloride, total	mg/L	03/08/16 - 05/30/24	26	0	CB around linear reg	98.4	108
27	UA	E005	Chromium, total	mg/L	09/12/18 - 05/30/24	21	78	CB around T-S line	0.0015	0.00130

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
27	UA	E005	Cobalt, total	mg/L	09/12/18 - 05/30/24	21	9	CI around mean	0.002	0.00170
27	UA	E005	Fluoride, total	mg/L	09/12/18 - 05/30/24	21	4	CI around median	0.12	0.170
27	UA	E005	Lead, total	mg/L	09/12/18 - 05/30/24	21	52	CI around median	0.001	0.001
27	UA	E005	Lithium, total	mg/L	09/12/18 - 05/30/24	21	0	CI around mean	0.0217	0.0140
27	UA	E005	Mercury, total	mg/L	09/12/18 - 05/30/24	21	100	All ND - Last	0.0002	0.0002
27	UA	E005	Molybdenum, total	mg/L	09/12/18 - 05/30/24	21	24	CI around median	0.0044	0.00200
27	UA	E005	pH (field)	SU	03/08/16 - 05/30/24	26	0	CI around mean	7.1/7.2	6.7/7.4
27	UA	E005	Radium 226 + Radium 228, total	pCi/L	09/12/18 - 05/30/24	15	0	CI around geomean	0.23	2.60
27	UA	E005	Selenium, total	mg/L	09/12/18 - 05/30/24	21	100	All ND - Last	0.0025	0.00110
27	UA	E005	Sulfate, total	mg/L	03/08/16 - 05/30/24	26	0	CB around linear reg	88.5	117
27	UA	E005	Thallium, total	mg/L	09/12/18 - 05/30/24	21	100	All ND - Last	0.002	0.001
27	UA	E005	Total Dissolved Solids	mg/L	03/08/16 - 05/30/24	26	0	CI around median	642	830
35	UA	E005	Antimony, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.003	0.001
35	UA	E005	Arsenic, total	mg/L	12/09/15 - 05/30/24	33	76	CI around median	0.001	0.001
35	UA	E005	Barium, total	mg/L	12/09/15 - 05/30/24	33	0	CI around mean	0.0407	0.156
35	UA	E005	Beryllium, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.001	0.001
35	UA	E005	Boron, total	mg/L	12/09/15 - 05/30/24	34	0	CB around linear reg	10.9	0.205
35	UA	E005	Cadmium, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.0005	0.001
35	UA	E005	Chloride, total	mg/L	12/09/15 - 05/30/24	34	0	CB around linear reg	20.9	108
35	UA	E005	Chromium, total	mg/L	12/09/15 - 05/30/24	33	97	CB around T-S line	0.0015	0.00130
35	UA	E005	Cobalt, total	mg/L	12/09/15 - 05/30/24	33	39	CI around median	0.001	0.00170
35	UA	E005	Fluoride, total	mg/L	12/09/15 - 05/30/24	34	3	CI around median	0.17	0.170
35	UA	E005	Lead, total	mg/L	12/09/15 - 05/30/24	33	91	CI around median	0.001	0.001
35	UA	E005	Lithium, total	mg/L	12/09/15 - 05/30/24	33	0	CI around mean	0.0243	0.0140
35	UA	E005	Mercury, total	mg/L	12/09/15 - 05/30/24	32	100	All ND - Last	0.0002	0.0002
35	UA	E005	Molybdenum, total	mg/L	12/09/15 - 05/30/24	33	0	CI around mean	0.0655	0.00200
35	UA	E005	pH (field)	SU	12/09/15 - 05/30/24	34	0	CB around linear reg	6.8/7.0	6.7/7.4

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
35	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 05/30/24	26	0	CI around median	0.31	2.60
35	UA	E005	Selenium, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.0025	0.00110
35	UA	E005	Sulfate, total	mg/L	12/09/15 - 05/30/24	34	0	CB around linear reg	626	117
35	UA	E005	Thallium, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.002	0.001
35	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 05/30/24	34	0	CB around linear reg	1,230	830
49	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.003	0.001
49	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	33	97	CI around median	0.001	0.001
49	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	33	0	CB around T-S line	0.0618	0.156
49	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.001	0.001
49	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	0.438	0.205
49	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	33	27	CB around linear reg	0.00147	0.001
49	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	34	0	CI around median	100	108
49	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	33	97	CB around T-S line	0.0015	0.00130
49	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	33	0	CI around mean	0.00439	0.00170
49	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	34	3	CI around median	0.15	0.170
49	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	33	91	CI around median	0.001	0.001
49	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	33	0	CI around mean	0.0239	0.0140
49	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0002	0.0002
49	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	33	0	CB around T-S line	0.0215	0.00200
49	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	35	0	CI around mean	7.1/7.2	6.7/7.4
49	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	26	0	CI around mean	0.361	2.60
49	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.0025	0.00110
49	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	68.8	117
49	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.002	0.001
49	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	573	830
50	UA	E005	Antimony, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.003	0.001
50	UA	E005	Arsenic, total	mg/L	09/17/19 - 05/30/24	18	89	CI around median	0.001	0.001

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
50	UA	E005	Barium, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	0.0861	0.156
50	UA	E005	Beryllium, total	mg/L	09/17/19 - 05/30/24	17	100	All ND - Last	0.001	0.001
50	UA	E005	Boron, total	mg/L	09/17/19 - 05/30/24	18	0	CI around geomean	0.713	0.205
50	UA	E005	Cadmium, total	mg/L	09/17/19 - 05/30/24	18	6	CI around median	0.0012	0.001
50	UA	E005	Chloride, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	87	108
50	UA	E005	Chromium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.005	0.00130
50	UA	E005	Cobalt, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	0.00416	0.00170
50	UA	E005	Fluoride, total	mg/L	09/17/19 - 05/30/24	18	22	CB around T-S line	0.115	0.170
50	UA	E005	Lead, total	mg/L	09/17/19 - 05/30/24	18	94	CI around median	0.001	0.001
50	UA	E005	Lithium, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	0.0197	0.0140
50	UA	E005	Mercury, total	mg/L	12/11/19 - 05/30/24	17	100	All ND - Last	0.0002	0.0002
50	UA	E005	Molybdenum, total	mg/L	09/17/19 - 05/30/24	18	0	CB around T-S line	0.0348	0.00200
50	UA	E005	pH (field)	SU	09/17/19 - 05/30/24	21	0	CB around linear reg	7.3/7.7	6.7/7.4
50	UA	E005	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 05/30/24	14	0	CI around mean	0.614	2.60
50	UA	E005	Selenium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.0025	0.00110
50	UA	E005	Sulfate, total	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	88.6	117
50	UA	E005	Thallium, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.002	0.001
50	UA	E005	Total Dissolved Solids	mg/L	09/17/19 - 05/30/24	18	0	CI around mean	610	830

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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

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

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 linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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