



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

January 15, 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 Ash Ponds No. 2 and No. 4; IEPA ID # W1550100002-04 and # W1550100002-07

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.610(b)(3)(D), Dynegy Midwest Generation, LLC is submitting groundwater monitoring data for the Quarter 3, 2023 sampling event at the Hennepin Power Plant Ash Ponds No. 2 and No. 4, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1550100002-04 and No. W1550100002-07. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS.

Sincerely,

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

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

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 3, 2023, Ash Ponds No. 2 and No. 4, Hennepin Power Plant, Hennepin, Illinois

**35 I.A.C. § 845.610(B)(3)(D)
GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES
QUARTER 3, 2023
ASH PONDS NO. 2 AND NO. 4, HENNEPIN POWER PLANT, HENNEPIN, ILLINOIS**

January 15, 2024

Samples were collected on August 23, August 24, and August 28, 2023 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) Section (§) 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on November 16, 2023.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 3, 2023 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 3, 2023 sampling event.

Statistical procedures used to evaluate groundwater results are provided in the Addendum to the Groundwater Monitoring Plan¹ provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 3, 2023 groundwater monitoring data were evaluated for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

In accordance with 35 I.A.C. § 845.610(b)(3)(C), the statistically derived values identified as Statistical Results in **Table 2** were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS. As shown in **Table 2**, exceedances of the GWPS were not identified.

TABLES

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

FIGURES

- Figure 1 35 I.A.C. § 845 Monitoring Well Location Map

ATTACHMENTS

- Attachment A Groundwater Elevation Data - Quarter 3, 2023
- Attachment B Laboratory Reports and Field Data Sheets - Quarter 3, 2023
- Attachment C Comparison of Statistical Results to Background - Quarter 3, 2023

¹ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan Addendum for Ash Pond No. 2 and Ash Pond No. 4. Hennepin Power Plant. Hennepin, Illinois. October 25, 2021.*

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 ASH POND NO. 2 AND ASH POND NO. 4
 HENNEPIN, IL

| Well ID | Well Type | Event | Date | Parameter | Result | Unit |
|---------|------------|-------|------------|------------------------------------|------------|--------------|
| 07 | Background | E002 | 08/24/2023 | Antimony, total | 0.0013 U | mg/L |
| 07 | Background | E002 | 08/24/2023 | Arsenic, total | 0.001 UJ | mg/L |
| 07 | Background | E002 | 08/24/2023 | Barium, total | 0.120 | mg/L |
| 07 | Background | E002 | 08/24/2023 | Beryllium, total | 0.00053 U | mg/L |
| 07 | Background | E002 | 08/24/2023 | Boron, total | 0.0670 | mg/L |
| 07 | Background | E002 | 08/24/2023 | Cadmium, total | 0.00017 U | mg/L |
| 07 | Background | E002 | 08/24/2023 | Calcium, total | 94.0 | mg/L |
| 07 | Background | E002 | 08/24/2023 | Chloride, total | 51.0 | mg/L |
| 07 | Background | E002 | 08/24/2023 | Chromium, total | 0.0011 U | mg/L |
| 07 | Background | E002 | 08/24/2023 | Cobalt, total | 0.0360 | mg/L |
| 07 | Background | E002 | 08/24/2023 | Dissolved Oxygen | 4.15 | mg/L |
| 07 | Background | E002 | 08/24/2023 | Fluoride, total | 0.24 J | mg/L |
| 07 | Background | E002 | 08/24/2023 | Lead, total | 0.00019 U | mg/L |
| 07 | Background | E002 | 08/24/2023 | Lithium, total | 0.00990 | mg/L |
| 07 | Background | E002 | 08/24/2023 | Mercury, total | 0.000079 U | mg/L |
| 07 | Background | E002 | 08/24/2023 | Molybdenum, total | 0.0025 U | mg/L |
| 07 | Background | E002 | 08/24/2023 | Oxidation Reduction Potential | 180 | mV |
| 07 | Background | E002 | 08/24/2023 | pH (field) | 6.9 | SU |
| 07 | Background | E002 | 08/24/2023 | Radium 226 + Radium 228, total | 0.647 | pCi/L |
| 07 | Background | E002 | 08/24/2023 | Selenium, total | 0.00098 U | mg/L |
| 07 | Background | E002 | 08/24/2023 | Specific Conductance @ 25C (field) | 699 | micromhos/cm |
| 07 | Background | E002 | 08/24/2023 | Sulfate, total | 67.0 | mg/L |
| 07 | Background | E002 | 08/24/2023 | Temperature | 13.8 | degrees C |
| 07 | Background | E002 | 08/24/2023 | Thallium, total | 0.00057 U | mg/L |
| 07 | Background | E002 | 08/24/2023 | Total Dissolved Solids | 640 | mg/L |
| 07 | Background | E002 | 08/24/2023 | Turbidity, field | 3.55 | NTU |
| 08 | Background | E002 | 08/24/2023 | Antimony, total | 0.0013 U | mg/L |
| 08 | Background | E002 | 08/24/2023 | Arsenic, total | 0.001 UJ | mg/L |
| 08 | Background | E002 | 08/24/2023 | Barium, total | 0.120 | mg/L |
| 08 | Background | E002 | 08/24/2023 | Beryllium, total | 0.00053 U | mg/L |
| 08 | Background | E002 | 08/24/2023 | Boron, total | 0.0700 | mg/L |
| 08 | Background | E002 | 08/24/2023 | Cadmium, total | 0.0005 UJ | mg/L |
| 08 | Background | E002 | 08/24/2023 | Calcium, total | 160 | mg/L |
| 08 | Background | E002 | 08/24/2023 | Chloride, total | 240 | mg/L |
| 08 | Background | E002 | 08/24/2023 | Chromium, total | 0.0011 U | mg/L |
| 08 | Background | E002 | 08/24/2023 | Cobalt, total | 0.00360 | mg/L |
| 08 | Background | E002 | 08/24/2023 | Dissolved Oxygen | 1.16 | mg/L |
| 08 | Background | E002 | 08/24/2023 | Fluoride, total | 0.19 J | mg/L |
| 08 | Background | E002 | 08/24/2023 | Lead, total | 0.0005 UJ | mg/L |
| 08 | Background | E002 | 08/24/2023 | Lithium, total | 0.0140 | mg/L |
| 08 | Background | E002 | 08/24/2023 | Mercury, total | 0.000079 U | mg/L |
| 08 | Background | E002 | 08/24/2023 | Molybdenum, total | 0.0025 U | mg/L |
| 08 | Background | E002 | 08/24/2023 | Oxidation Reduction Potential | 189 | mV |
| 08 | Background | E002 | 08/24/2023 | pH (field) | 6.7 | SU |
| 08 | Background | E002 | 08/24/2023 | Radium 226 + Radium 228, total | 0.572 | pCi/L |
| 08 | Background | E002 | 08/24/2023 | Selenium, total | 0.00098 U | mg/L |

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 ASH POND NO. 2 AND ASH POND NO. 4
 HENNEPIN, IL

| Well ID | Well Type | Event | Date | Parameter | Result | Unit |
|---------|------------|-------|------------|------------------------------------|------------|--------------|
| 08 | Background | E002 | 08/24/2023 | Specific Conductance @ 25C (field) | 1,241 | micromhos/cm |
| 08 | Background | E002 | 08/24/2023 | Sulfate, total | 100 | mg/L |
| 08 | Background | E002 | 08/24/2023 | Temperature | 14.7 | degrees C |
| 08 | Background | E002 | 08/24/2023 | Thallium, total | 0.00057 U | mg/L |
| 08 | Background | E002 | 08/24/2023 | Total Dissolved Solids | 1,100 | mg/L |
| 08 | Background | E002 | 08/24/2023 | Turbidity, field | 3.49 | NTU |
| 08D | Background | E002 | 08/24/2023 | Antimony, total | 0.0013 U | mg/L |
| 08D | Background | E002 | 08/24/2023 | Arsenic, total | 0.00110 J+ | mg/L |
| 08D | Background | E002 | 08/24/2023 | Barium, total | 0.120 | mg/L |
| 08D | Background | E002 | 08/24/2023 | Beryllium, total | 0.00053 U | mg/L |
| 08D | Background | E002 | 08/24/2023 | Boron, total | 0.0510 | mg/L |
| 08D | Background | E002 | 08/24/2023 | Cadmium, total | 0.0005 UJ | mg/L |
| 08D | Background | E002 | 08/24/2023 | Calcium, total | 200 | mg/L |
| 08D | Background | E002 | 08/24/2023 | Chloride, total | 310 | mg/L |
| 08D | Background | E002 | 08/24/2023 | Chromium, total | 0.0011 U | mg/L |
| 08D | Background | E002 | 08/24/2023 | Cobalt, total | 0.00320 | mg/L |
| 08D | Background | E002 | 08/24/2023 | Dissolved Oxygen | 0.630 | mg/L |
| 08D | Background | E002 | 08/24/2023 | Fluoride, total | 0.19 U | mg/L |
| 08D | Background | E002 | 08/24/2023 | Lead, total | 0.0005 UJ | mg/L |
| 08D | Background | E002 | 08/24/2023 | Lithium, total | 0.0140 | mg/L |
| 08D | Background | E002 | 08/24/2023 | Mercury, total | 0.000079 U | mg/L |
| 08D | Background | E002 | 08/24/2023 | Molybdenum, total | 0.0025 U | mg/L |
| 08D | Background | E002 | 08/24/2023 | Oxidation Reduction Potential | 192 | mV |
| 08D | Background | E002 | 08/24/2023 | pH (field) | 6.6 | SU |
| 08D | Background | E002 | 08/24/2023 | Radium 226 + Radium 228, total | 0.573 | pCi/L |
| 08D | Background | E002 | 08/24/2023 | Selenium, total | 0.00098 U | mg/L |
| 08D | Background | E002 | 08/24/2023 | Specific Conductance @ 25C (field) | 1,435 | micromhos/cm |
| 08D | Background | E002 | 08/24/2023 | Sulfate, total | 170 | mg/L |
| 08D | Background | E002 | 08/24/2023 | Temperature | 17.3 | degrees C |
| 08D | Background | E002 | 08/24/2023 | Thallium, total | 0.00057 U | mg/L |
| 08D | Background | E002 | 08/24/2023 | Total Dissolved Solids | 1,400 | mg/L |
| 08D | Background | E002 | 08/24/2023 | Turbidity, field | 4.32 | NTU |
| 03R | Compliance | E002 | 08/28/2023 | Antimony, total | 0.0013 U | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Arsenic, total | 0.00058 J | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Barium, total | 0.0570 | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Beryllium, total | 0.00053 U | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Boron, total | 0.430 | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Cadmium, total | 0.00017 U | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Calcium, total | 81.0 | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Chloride, total | 75.0 | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Chromium, total | 0.0011 U | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Cobalt, total | 0.00041 J | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Dissolved Oxygen | 0.210 | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Fluoride, total | 0.33 J | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Lead, total | 0.00019 U | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Lithium, total | 0.0180 | mg/L |

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 ASH POND NO. 2 AND ASH POND NO. 4
 HENNEPIN, IL

| Well ID | Well Type | Event | Date | Parameter | Result | Unit |
|---------|------------|-------|------------|------------------------------------|------------|--------------|
| 03R | Compliance | E002 | 08/28/2023 | Mercury, total | 0.000079 U | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Molybdenum, total | 0.0930 | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Oxidation Reduction Potential | 127 | mV |
| 03R | Compliance | E002 | 08/28/2023 | pH (field) | 7.2 | SU |
| 03R | Compliance | E002 | 08/28/2023 | Radium 226 + Radium 228, total | 0.821 | pCi/L |
| 03R | Compliance | E002 | 08/28/2023 | Selenium, total | 0.00370 | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Specific Conductance @ 25C (field) | 652 | micromhos/cm |
| 03R | Compliance | E002 | 08/28/2023 | Sulfate, total | 78.0 | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Temperature | 18.3 | degrees C |
| 03R | Compliance | E002 | 08/28/2023 | Thallium, total | 0.00057 U | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Total Dissolved Solids | 540 | mg/L |
| 03R | Compliance | E002 | 08/28/2023 | Turbidity, field | 2.54 | NTU |
| 18S | Compliance | E002 | 08/28/2023 | Antimony, total | 0.0013 U | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Arsenic, total | 0.00089 J | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Barium, total | 0.0550 | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Beryllium, total | 0.00053 U | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Boron, total | 2.00 | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Cadmium, total | 0.00017 U | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Calcium, total | 85.0 | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Chloride, total | 74.0 | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Chromium, total | 0.0011 U | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Cobalt, total | 0.0004 U | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Dissolved Oxygen | 0.200 | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Fluoride, total | 0.24 J | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Lead, total | 0.00019 U | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Lithium, total | 0.0490 | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Mercury, total | 0.000079 U | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Molybdenum, total | 0.150 | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Oxidation Reduction Potential | 94.1 | mV |
| 18S | Compliance | E002 | 08/28/2023 | pH (field) | 7.4 | SU |
| 18S | Compliance | E002 | 08/28/2023 | Radium 226 + Radium 228, total | 0.517 | pCi/L |
| 18S | Compliance | E002 | 08/28/2023 | Selenium, total | 0.0190 | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Specific Conductance @ 25C (field) | 661 | micromhos/cm |
| 18S | Compliance | E002 | 08/28/2023 | Sulfate, total | 120 | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Temperature | 16.8 | degrees C |
| 18S | Compliance | E002 | 08/28/2023 | Thallium, total | 0.00057 U | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Total Dissolved Solids | 550 | mg/L |
| 18S | Compliance | E002 | 08/28/2023 | Turbidity, field | 2.46 | NTU |
| 18D | Compliance | E002 | 08/23/2023 | Antimony, total | 0.0013 U | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Arsenic, total | 0.00088 J | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Barium, total | 0.0680 | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Beryllium, total | 0.00053 U | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Boron, total | 1.10 | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Cadmium, total | 0.0004 J | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Calcium, total | 90.0 | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Chloride, total | 74.0 | mg/L |

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 ASH POND NO. 2 AND ASH POND NO. 4
 HENNEPIN, IL

| Well ID | Well Type | Event | Date | Parameter | Result | Unit |
|---------|------------|-------|------------|------------------------------------|------------|--------------|
| 18D | Compliance | E002 | 08/23/2023 | Chromium, total | 0.0011 U | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Cobalt, total | 0.00180 | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Dissolved Oxygen | 0.170 | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Fluoride, total | 0.24 J | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Lead, total | 0.0005 UJ | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Lithium, total | 0.0270 | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Mercury, total | 0.000079 U | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Molybdenum, total | 0.0330 | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Oxidation Reduction Potential | 68.2 | mV |
| 18D | Compliance | E002 | 08/23/2023 | pH (field) | 7.2 | SU |
| 18D | Compliance | E002 | 08/23/2023 | Radium 226 + Radium 228, total | 0.611 | pCi/L |
| 18D | Compliance | E002 | 08/23/2023 | Selenium, total | 0.00098 U | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Specific Conductance @ 25C (field) | 685 | micromhos/cm |
| 18D | Compliance | E002 | 08/23/2023 | Sulfate, total | 98.0 | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Temperature | 21.2 | degrees C |
| 18D | Compliance | E002 | 08/23/2023 | Thallium, total | 0.00057 U | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Total Dissolved Solids | 540 | mg/L |
| 18D | Compliance | E002 | 08/23/2023 | Turbidity, field | 10.3 | NTU |
| 45S | Compliance | E002 | 08/28/2023 | Antimony, total | 0.0013 U | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Arsenic, total | 0.00110 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Barium, total | 0.0820 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Beryllium, total | 0.00053 U | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Boron, total | 0.240 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Cadmium, total | 0.00110 J+ | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Calcium, total | 81.0 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Chloride, total | 91.0 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Chromium, total | 0.0011 U | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Cobalt, total | 0.00210 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Dissolved Oxygen | 0.170 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Fluoride, total | 0.31 J | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Lead, total | 0.00120 J+ | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Lithium, total | 0.0130 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Mercury, total | 0.0002 UJ | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Molybdenum, total | 0.0530 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Oxidation Reduction Potential | 120 | mV |
| 45S | Compliance | E002 | 08/28/2023 | pH (field) | 7.2 | SU |
| 45S | Compliance | E002 | 08/28/2023 | Radium 226 + Radium 228, total | 0.687 | pCi/L |
| 45S | Compliance | E002 | 08/28/2023 | Selenium, total | 0.00098 U | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Specific Conductance @ 25C (field) | 640 | micromhos/cm |
| 45S | Compliance | E002 | 08/28/2023 | Sulfate, total | 77.0 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Temperature | 19.1 | degrees C |
| 45S | Compliance | E002 | 08/28/2023 | Thallium, total | 0.00057 U | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Total Dissolved Solids | 570 | mg/L |
| 45S | Compliance | E002 | 08/28/2023 | Turbidity, field | 55.7 | NTU |

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023

845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Notes:

C = Celsius

cm = centimeter

mg/L = milligrams per liter

mV = millivolts

NTU = Nephelometric Turbidity Units

pCi/L = picocuries per liter

SU = Standard Units

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The result is an estimated quantity, but the result may be biased high.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023

845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 ASH POND NO. 2 AND ASH POND NO. 4
 HENNEPIN, IL

| Well ID | HSU | Event | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | GWPS | GWPS Source | Compliance Result |
|---------|-----|-------|--------------------------------|-------|---------------------|--------------|------------|-------------------------|--------------------|---------|-------------------|-------------------|
| 03R | UA | E002 | Antimony, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.003 | 0.006 | Standard | No Exceedance |
| 03R | UA | E002 | Arsenic, total | mg/L | 12/09/15 - 08/28/23 | 24 | 100 | All ND - Last | 0.001 | 0.010 | Standard | No Exceedance |
| 03R | UA | E002 | Barium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CI around mean | 0.062 | 2.0 | Standard | No Exceedance |
| 03R | UA | E002 | Beryllium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.001 | 0.004 | Standard | No Exceedance |
| 03R | UA | E002 | Boron, total | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around linear reg | 0.5 | 2 | Standard | No Exceedance |
| 03R | UA | E002 | Cadmium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 92 | CI around median | 0.001 | 0.005 | Standard | No Exceedance |
| 03R | UA | E002 | Chloride, total | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around linear reg | 76.7 | 435 | Background | No Exceedance |
| 03R | UA | E002 | Chromium, total | mg/L | 12/09/15 - 08/28/23 | 24 | 92 | CB around T-S line | 0.0015 | 0.1 | Standard | No Exceedance |
| 03R | UA | E002 | Cobalt, total | mg/L | 12/09/15 - 08/28/23 | 25 | 96 | CI around median | 0.001 | 0.0380 | Background | No Exceedance |
| 03R | UA | E002 | Fluoride, total | mg/L | 12/09/15 - 08/28/23 | 27 | 4 | CI around geomean | 0.27 | 4.0 | Standard | No Exceedance |
| 03R | UA | E002 | Lead, total | mg/L | 12/09/15 - 08/28/23 | 24 | 100 | All ND - Last | 0.0005 | 0.0075 | Standard | No Exceedance |
| 03R | UA | E002 | Lithium, total | mg/L | 12/09/15 - 08/28/23 | 29 | 0 | CI around mean | 0.0244 | 0.04 | Standard | No Exceedance |
| 03R | UA | E002 | Mercury, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.0002 | 0.002 | Standard | No Exceedance |
| 03R | UA | E002 | Molybdenum, total | mg/L | 12/09/15 - 08/28/23 | 29 | 0 | CB around linear reg | 0.0938 | 0.1 | Standard | No Exceedance |
| 03R | UA | E002 | pH (field) | SU | 12/09/15 - 08/28/23 | 33 | 0 | CB around T-S line | 7.0/7.2 | 6.5/9.0 | Standard/Standard | No Exceedance |
| 03R | UA | E002 | Radium 226 + Radium 228, total | pCi/L | 12/09/15 - 08/28/23 | 24 | 0 | CI around median | 0.27 | 5 | Standard | No Exceedance |
| 03R | UA | E002 | Selenium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CI around mean | 0.00497 | 0.05 | Standard | No Exceedance |
| 03R | UA | E002 | Sulfate, total | mg/L | 12/09/15 - 08/28/23 | 29 | 0 | CB around linear reg | 76.2 | 400 | Standard | No Exceedance |
| 03R | UA | E002 | Thallium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.002 | 0.002 | Standard | No Exceedance |
| 03R | UA | E002 | Total Dissolved Solids | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CI around mean | 509 | 1,620 | Background | No Exceedance |
| 18S | UA | E002 | Antimony, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.003 | 0.006 | Standard | No Exceedance |
| 18S | UA | E002 | Arsenic, total | mg/L | 12/09/15 - 08/28/23 | 24 | 96 | CI around median | 0.001 | 0.010 | Standard | No Exceedance |
| 18S | UA | E002 | Barium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CB around linear reg | 0.0505 | 2.0 | Standard | No Exceedance |
| 18S | UA | E002 | Beryllium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.001 | 0.004 | Standard | No Exceedance |
| 18S | UA | E002 | Boron, total | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around T-S line | 0.978 | 2 | Standard | No Exceedance |
| 18S | UA | E002 | Cadmium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 76 | CI around median | 0.001 | 0.005 | Standard | No Exceedance |
| 18S | UA | E002 | Chloride, total | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around linear reg | 69.2 | 435 | Background | No Exceedance |

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023

845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 ASH POND NO. 2 AND ASH POND NO. 4
 HENNEPIN, IL

| Well ID | HSU | Event | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | GWPS | GWPS Source | Compliance Result |
|---------|-----|-------|--------------------------------|-------|---------------------|--------------|------------|-------------------------|--------------------|---------|-------------------|-------------------|
| 18S | UA | E002 | Chromium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 55 | CI around median | 0.0015 | 0.1 | Standard | No Exceedance |
| 18S | UA | E002 | Cobalt, total | mg/L | 12/09/15 - 08/28/23 | 25 | 83 | CI around median | 0.001 | 0.0380 | Background | No Exceedance |
| 18S | UA | E002 | Fluoride, total | mg/L | 12/09/15 - 08/28/23 | 27 | 3 | CB around T-S line | 0.168 | 4.0 | Standard | No Exceedance |
| 18S | UA | E002 | Lead, total | mg/L | 12/09/15 - 08/28/23 | 24 | 100 | All ND - Last | 0.0005 | 0.0075 | Standard | No Exceedance |
| 18S | UA | E002 | Lithium, total | mg/L | 12/09/15 - 08/28/23 | 29 | 0 | CB around linear reg | 0.0372 | 0.04 | Standard | No Exceedance |
| 18S | UA | E002 | Mercury, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.0002 | 0.002 | Standard | No Exceedance |
| 18S | UA | E002 | Molybdenum, total | mg/L | 12/09/15 - 08/28/23 | 29 | 0 | CB around linear reg | 0.0908 | 0.1 | Standard | No Exceedance |
| 18S | UA | E002 | pH (field) | SU | 12/09/15 - 08/28/23 | 33 | 0 | CB around T-S line | 7.2/7.3 | 6.5/9.0 | Standard/Standard | No Exceedance |
| 18S | UA | E002 | Radium 226 + Radium 228, total | pCi/L | 12/09/15 - 08/28/23 | 24 | 0 | CI around mean | 0.317 | 5 | Standard | No Exceedance |
| 18S | UA | E002 | Selenium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 3 | CB around T-S line | 0.00339 | 0.05 | Standard | No Exceedance |
| 18S | UA | E002 | Sulfate, total | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around T-S line | 89.8 | 400 | Standard | No Exceedance |
| 18S | UA | E002 | Thallium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.002 | 0.002 | Standard | No Exceedance |
| 18S | UA | E002 | Total Dissolved Solids | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around T-S line | 477 | 1,620 | Background | No Exceedance |
| 18D | UA | E002 | Antimony, total | mg/L | 12/09/15 - 08/23/23 | 23 | 100 | All ND - Last | 0.003 | 0.006 | Standard | No Exceedance |
| 18D | UA | E002 | Arsenic, total | mg/L | 12/09/15 - 08/23/23 | 24 | 96 | CI around median | 0.001 | 0.010 | Standard | No Exceedance |
| 18D | UA | E002 | Barium, total | mg/L | 12/09/15 - 08/23/23 | 26 | 0 | CB around T-S line | 0.0613 | 2.0 | Standard | No Exceedance |
| 18D | UA | E002 | Beryllium, total | mg/L | 12/09/15 - 08/23/23 | 23 | 100 | All ND - Last | 0.001 | 0.004 | Standard | No Exceedance |
| 18D | UA | E002 | Boron, total | mg/L | 12/09/15 - 08/23/23 | 30 | 0 | CB around linear reg | 1.25 | 2 | Standard | No Exceedance |
| 18D | UA | E002 | Cadmium, total | mg/L | 12/09/15 - 08/23/23 | 25 | 93 | CI around median | 0.001 | 0.005 | Standard | No Exceedance |
| 18D | UA | E002 | Chloride, total | mg/L | 12/09/15 - 08/23/23 | 30 | 0 | CI around mean | 76.2 | 435 | Background | No Exceedance |
| 18D | UA | E002 | Chromium, total | mg/L | 12/09/15 - 08/23/23 | 24 | 93 | CB around T-S line | 0.0015 | 0.1 | Standard | No Exceedance |
| 18D | UA | E002 | Cobalt, total | mg/L | 12/09/15 - 08/23/23 | 26 | 3 | CB around linear reg | 0.000289 | 0.0380 | Background | No Exceedance |
| 18D | UA | E002 | Fluoride, total | mg/L | 12/09/15 - 08/23/23 | 27 | 3 | CI around median | 0.15 | 4.0 | Standard | No Exceedance |
| 18D | UA | E002 | Lead, total | mg/L | 12/09/15 - 08/23/23 | 24 | 96 | CI around median | 0.001 | 0.0075 | Standard | No Exceedance |
| 18D | UA | E002 | Lithium, total | mg/L | 12/09/15 - 08/23/23 | 29 | 0 | CB around linear reg | 0.0231 | 0.04 | Standard | No Exceedance |
| 18D | UA | E002 | Mercury, total | mg/L | 12/09/15 - 08/23/23 | 23 | 100 | All ND - Last | 0.0002 | 0.002 | Standard | No Exceedance |
| 18D | UA | E002 | Molybdenum, total | mg/L | 12/09/15 - 08/23/23 | 29 | 0 | CI around median | 0.0315 | 0.1 | Standard | No Exceedance |

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023

845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 ASH POND NO. 2 AND ASH POND NO. 4
 HENNEPIN, IL

| Well ID | HSU | Event | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | GWPS | GWPS Source | Compliance Result |
|---------|-----|-------|--------------------------------|-------|---------------------|--------------|------------|-------------------------|--------------------|---------|-------------------|-------------------|
| 18D | UA | E002 | pH (field) | SU | 12/09/15 - 08/23/23 | 33 | 0 | CI around mean | 7.1/7.2 | 6.5/9.0 | Standard/Standard | No Exceedance |
| 18D | UA | E002 | Radium 226 + Radium 228, total | pCi/L | 12/09/15 - 08/23/23 | 24 | 0 | CI around mean | 0.518 | 5 | Standard | No Exceedance |
| 18D | UA | E002 | Selenium, total | mg/L | 12/09/15 - 08/23/23 | 25 | 93 | CI around median | 0.001 | 0.05 | Standard | No Exceedance |
| 18D | UA | E002 | Sulfate, total | mg/L | 12/09/15 - 08/23/23 | 30 | 0 | CB around linear reg | 88.5 | 400 | Standard | No Exceedance |
| 18D | UA | E002 | Thallium, total | mg/L | 12/09/15 - 08/23/23 | 23 | 100 | All ND - Last | 0.002 | 0.002 | Standard | No Exceedance |
| 18D | UA | E002 | Total Dissolved Solids | mg/L | 12/09/15 - 08/23/23 | 30 | 0 | CB around T-S line | 468 | 1,620 | Background | No Exceedance |
| 45S | UA | E002 | Antimony, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.003 | 0.006 | Standard | No Exceedance |
| 45S | UA | E002 | Arsenic, total | mg/L | 12/09/15 - 08/28/23 | 24 | 96 | CI around median | 0.001 | 0.010 | Standard | No Exceedance |
| 45S | UA | E002 | Barium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CB around linear reg | 0.0777 | 2.0 | Standard | No Exceedance |
| 45S | UA | E002 | Beryllium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.001 | 0.004 | Standard | No Exceedance |
| 45S | UA | E002 | Boron, total | mg/L | 12/09/15 - 08/28/23 | 27 | 0 | CB around linear reg | 0.214 | 2 | Standard | No Exceedance |
| 45S | UA | E002 | Cadmium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 48 | CB around linear reg | 0.000555 | 0.005 | Standard | No Exceedance |
| 45S | UA | E002 | Chloride, total | mg/L | 12/09/15 - 08/28/23 | 27 | 0 | CB around linear reg | 85.8 | 435 | Background | No Exceedance |
| 45S | UA | E002 | Chromium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 92 | CB around T-S line | 0.0015 | 0.1 | Standard | No Exceedance |
| 45S | UA | E002 | Cobalt, total | mg/L | 12/09/15 - 08/28/23 | 26 | 15 | CI around geomean | 0.00135 | 0.0380 | Background | No Exceedance |
| 45S | UA | E002 | Fluoride, total | mg/L | 12/09/15 - 08/28/23 | 27 | 4 | CB around T-S line | 0.25 | 4.0 | Standard | No Exceedance |
| 45S | UA | E002 | Lead, total | mg/L | 12/09/15 - 08/28/23 | 24 | 88 | CB around T-S line | 0.001 | 0.0075 | Standard | No Exceedance |
| 45S | UA | E002 | Lithium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CB around linear reg | 0.0109 | 0.04 | Standard | No Exceedance |
| 45S | UA | E002 | Mercury, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.0002 | 0.002 | Standard | No Exceedance |
| 45S | UA | E002 | Molybdenum, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CB around linear reg | 0.0427 | 0.1 | Standard | No Exceedance |
| 45S | UA | E002 | pH (field) | SU | 12/09/15 - 08/28/23 | 27 | 0 | CI around mean | 7.1/7.2 | 6.5/9.0 | Standard/Standard | No Exceedance |
| 45S | UA | E002 | Radium 226 + Radium 228, total | pCi/L | 12/09/15 - 08/28/23 | 24 | 0 | CI around geomean | 0.508 | 5 | Standard | No Exceedance |
| 45S | UA | E002 | Selenium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 100 | All ND - Last | 0.0025 | 0.05 | Standard | No Exceedance |
| 45S | UA | E002 | Sulfate, total | mg/L | 12/09/15 - 08/28/23 | 27 | 0 | CI around median | 70 | 400 | Standard | No Exceedance |
| 45S | UA | E002 | Thallium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.002 | 0.002 | Standard | No Exceedance |
| 45S | UA | E002 | Total Dissolved Solids | mg/L | 12/09/15 - 08/28/23 | 27 | 0 | CI around mean | 523 | 1,620 | Background | No Exceedance |

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023

845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Notes:

Compliance Result:

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

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



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



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

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

FIGURE 1



ATTACHMENTS

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

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 3, 2023

845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

| Well ID | Well Type | Date | Depth to Groundwater (feet BMP) | Groundwater Elevation (feet NAVD88) |
|----------------|------------------|-------------|--|--|
| 03R | Compliance | 08/21/2023 | 35.29 | 446.63 |
| 07 | Background | 08/21/2023 | 68.39 | 449.87 |
| 08 | Background | 08/21/2023 | 54.24 | 447.13 |
| 08D | Background | 08/21/2023 | 54.44 | 446.89 |
| 18S | Compliance | 08/21/2023 | 41.03 | 446.67 |
| 18D | Compliance | 08/21/2023 | 41.18 | 446.42 |
| 45S | Compliance | 08/21/2023 | 18.98 | 448.50 |

Notes:

Only wells with groundwater elevations measured are included.

BMP = below measuring point

NA = not available/not applicable

NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 3, 2023**

ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701
Generated 11/16/23 11:01:11 Revision 1

JOB DESCRIPTION

HEN-23Q3
HEN_845_802-805

JOB NUMBER

500-238579-15

Job Notes

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

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

Authorization



Generated
11/16/23 11:01:11
Revision 1

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Table of Contents

| | |
|---------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Case Narrative | 4 |
| Method Summary | 5 |
| Sample Summary | 6 |
| Client Sample Results | 7 |
| Definitions | 15 |
| QC Association | 16 |
| QC Sample Results | 22 |
| Chronicle | 33 |
| Certification Summary | 37 |
| Chain of Custody | 38 |
| Receipt Checklists | 46 |
| Field Data Sheets | 47 |

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Job ID: 500-238579-15
SDG: HEN_845_802-805

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

Job ID: 500-238579-15

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-238579-15

Revision

The report being provided is a revision of the original report sent on 11/07/23. The report (revision 1) is being revised due to: Original report was missing COCs.

Comments

No additional comments.

Receipt

The samples were received on 08/23/23 10:00. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

Metals

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

General Chemistry

Methods 300.0: The method blank for analytical batch 500-731549 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.

Method Summary

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

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

Protocol References:

- EPA = US Environmental Protection Agency
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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



Sample Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-15
 HEN_845_802-805
 SDG: HEN_845_802-805

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

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 500-238579-13 | HEN_18&D | Water | 08/23/23 14:05 | 08/24/23 09:38 |
| 500-238579-28 | HEN_07 | Water | 08/24/23 14:00 | 08/25/23 09:32 |
| 500-238579-30 | HEN_08 | Water | 08/24/23 15:10 | 08/25/23 09:32 |
| 500-238579-32 | HEN_08&D | Water | 08/24/23 12:25 | 08/25/23 09:32 |
| 500-238579-34 | HEN_08_FD | Water | 08/24/23 15:10 | 08/25/23 09:32 |
| 500-238579-51 | HEN_18#S | Water | 08/28/23 08:35 | 08/28/23 15:00 |
| 500-238579-53 | HEN_03R | Water | 08/28/23 09:45 | 08/28/23 15:00 |
| 500-238579-56 | HEN_45#S | Water | 08/28/23 11:15 | 08/28/23 15:00 |

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

Client Sample Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
HEN_18&D
SDG: HEN_845_802-805

Client Sample ID: HEN_18&D

Lab Sample ID: 500-238579-13

Date Collected: 08/23/23 14:05

Matrix: Water

Date Received: 08/24/23 09:38

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 | | 09/20/23 18:37 | 09/25/23 18:41 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Arsenic | 0.00088 | J | 0.0010 | 0.00023 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Barium | 0.068 | | 0.0025 | 0.00073 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Beryllium | <0.0010 | | 0.0010 | 0.00053 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Boron | 1.1 | | 0.050 | 0.013 | mg/L | | 08/29/23 08:50 | 10/04/23 23:54 | 1 |
| Cadmium | 0.00040 | J | 0.00050 | 0.00017 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Calcium | 90 | | 0.20 | 0.044 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Cobalt | 0.0018 | | 0.0010 | 0.00040 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Lead | 0.00038 | J | 0.00050 | 0.00019 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Molybdenum | 0.033 | | 0.0050 | 0.0025 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 08/29/23 08:50 | 09/05/23 15:33 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 07:25 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 74 | | 5.0 | 0.58 | mg/L | | | 08/29/23 05:31 | 5 |
| Fluoride (EPA 300.0) | 0.24 | J | 1.0 | 0.19 | mg/L | | | 08/29/23 05:16 | 1 |
| Sulfate (EPA 300.0) | 98 | | 5.0 | 1.0 | mg/L | | | 08/29/23 05:31 | 5 |
| Total Dissolved Solids (SM 2540C) | 540 | | 10 | 4.3 | mg/L | | | 08/28/23 21:10 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Depth to Water (ft from MP) | 41.18 | | | | ft | | | 08/23/23 14:05 | 1 |
| Field pH | 7.18 | | | | SU | | | 08/23/23 14:05 | 1 |
| Field Temperature | 21.2 | | | | Degrees C | | | 08/23/23 14:05 | 1 |
| Oxidation Reduction Potential | 68.2 | | | | millivolts | | | 08/23/23 14:05 | 1 |
| Oxygen, Dissolved | 0.17 | | | | mg/L | | | 08/23/23 14:05 | 1 |
| Specific Conductance | 685 | | | | umhos/cm | | | 08/23/23 14:05 | 1 |
| Turbidity | 10.26 | | | | NTU | | | 08/23/23 14:05 | 1 |

Client Sample Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
HEN-23Q3-006
SDG: HEN_845_802-805

Client Sample ID: HEN_07

Lab Sample ID: 500-238579-28

Date Collected: 08/24/23 14:00

Matrix: Water

Date Received: 08/25/23 09:32

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lithium | 0.0099 | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:31 | 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 | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Arsenic | 0.00065 | J B | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Barium | 0.12 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Boron | 0.067 | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Calcium | 94 | B | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Cobalt | 0.036 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 02:41 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/06/23 22:51 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/10/23 12:10 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 07:49 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 51 | | 5.0 | 0.58 | mg/L | | | 08/29/23 21:35 | 5 |
| Fluoride (EPA 300.0) | 0.24 | J | 1.0 | 0.19 | mg/L | | | 08/29/23 21:20 | 1 |
| Sulfate (EPA 300.0) | 67 | | 5.0 | 1.0 | mg/L | | | 08/29/23 21:35 | 5 |
| Total Dissolved Solids (SM 2540C) | 640 | | 10 | 4.3 | mg/L | | | 08/30/23 11:27 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Depth to Water (ft from MP) | 68.39 | | | | ft | | | 08/24/23 14:00 | 1 |
| Field pH | 6.91 | | | | SU | | | 08/24/23 14:00 | 1 |
| Field Temperature | 13.8 | | | | Degrees C | | | 08/24/23 14:00 | 1 |
| Oxidation Reduction Potential | 179.9 | | | | millivolts | | | 08/24/23 14:00 | 1 |
| Oxygen, Dissolved | 4.15 | | | | mg/L | | | 08/24/23 14:00 | 1 |
| Specific Conductance | 699 | | | | umhos/cm | | | 08/24/23 14:00 | 1 |
| Turbidity | 3.55 | | | | NTU | | | 08/24/23 14:00 | 1 |

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-15
 HEN-23Q3
 SDG: HEN_845_802-805

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

Client Sample ID: HEN_08
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-30
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lithium | 0.014 | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:35 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Arsenic | 0.00092 | J B | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Barium | 0.12 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Boron | 0.070 | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Cadmium | 0.00045 | J | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Calcium | 160 | B | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Cobalt | 0.0036 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Lead | 0.00042 | J | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 02:44 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/06/23 22:55 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/09/23 12:38 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/31/23 11:45 | 09/01/23 07:02 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 240 | | 10 | 1.2 | mg/L | | | 08/29/23 22:36 | 10 |
| Fluoride (EPA 300.0) | 0.19 | J | 1.0 | 0.19 | mg/L | | | 08/29/23 21:50 | 1 |
| Sulfate (EPA 300.0) | 100 | | 10 | 2.1 | mg/L | | | 08/29/23 22:36 | 10 |
| Total Dissolved Solids (SM 2540C) | 1100 | | 10 | 4.3 | mg/L | | | 08/30/23 11:30 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Field pH | 6.72 | | | | SU | | | 08/24/23 15:10 | 1 |
| Field Temperature | 14.7 | | | | Degrees C | | | 08/24/23 15:10 | 1 |
| Oxidation Reduction Potential | 188.6 | | | | millivolts | | | 08/24/23 15:10 | 1 |
| Oxygen, Dissolved | 1.16 | | | | mg/L | | | 08/24/23 15:10 | 1 |
| Specific Conductance | 1241 | | | | umhos/cm | | | 08/24/23 15:10 | 1 |
| Turbidity | 3.49 | | | | NTU | | | 08/24/23 15:10 | 1 |

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-15
 HEN-23Q3
 SDG: HEN_845_802-805

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

Client Sample ID: HEN_08&D

Lab Sample ID: 500-238579-32

Date Collected: 08/24/23 12:25

Matrix: Water

Date Received: 08/25/23 09:32

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lithium | 0.014 | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:40 | 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 | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Arsenic | 0.0011 | B | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Barium | 0.12 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Boron | 0.051 | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Cadmium | 0.00023 | J | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Calcium | 200 | B | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Cobalt | 0.0032 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Lead | 0.00019 | J | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 02:48 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/06/23 22:58 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/09/23 12:41 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/31/23 11:45 | 09/01/23 07:04 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 310 | | 10 | 1.2 | mg/L | | | 08/29/23 23:06 | 10 |
| Fluoride (EPA 300.0) | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/29/23 22:51 | 1 |
| Sulfate (EPA 300.0) | 170 | | 10 | 2.1 | mg/L | | | 08/29/23 23:06 | 10 |
| Total Dissolved Solids (SM 2540C) | 1400 | | 10 | 4.3 | mg/L | | | 08/30/23 11:33 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Field pH | 6.59 | | | | SU | | | 08/24/23 12:25 | 1 |
| Field Temperature | 17.3 | | | | Degrees C | | | 08/24/23 12:25 | 1 |
| Oxidation Reduction Potential | 192.0 | | | | millivolts | | | 08/24/23 12:25 | 1 |
| Oxygen, Dissolved | 0.63 | | | | mg/L | | | 08/24/23 12:25 | 1 |
| Specific Conductance | 1435 | | | | umhos/cm | | | 08/24/23 12:25 | 1 |
| Turbidity | 4.32 | | | | NTU | | | 08/24/23 12:25 | 1 |

Client Sample Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
HEN-23-000008
SDG: HEN_845_802-805

Client Sample ID: HEN_08_FD

Lab Sample ID: 500-238579-34

Date Collected: 08/24/23 15:10

Matrix: Water

Date Received: 08/25/23 09:32

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lithium | 0.014 | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 19:44 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Arsenic | 0.00091 | J B | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Barium | 0.12 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Boron | 0.055 | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Cadmium | 0.00044 | J | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Calcium | 160 | B | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Cobalt | 0.0036 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Lead | 0.00039 | J | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 02:59 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/06/23 23:01 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/09/23 12:45 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/31/23 11:45 | 09/01/23 07:06 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 230 | | 10 | 1.2 | mg/L | | | 08/29/23 23:37 | 10 |
| Fluoride (EPA 300.0) | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/29/23 23:21 | 1 |
| Sulfate (EPA 300.0) | 110 | | 10 | 2.1 | mg/L | | | 08/29/23 23:37 | 10 |
| Total Dissolved Solids (SM 2540C) | 1100 | | 10 | 4.3 | mg/L | | | 08/30/23 11:36 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Field pH | 6.72 | | | | SU | | | 08/24/23 15:10 | 1 |
| Field Temperature | 14.7 | | | | Degrees C | | | 08/24/23 15:10 | 1 |
| Oxidation Reduction Potential | 188.6 | | | | millivolts | | | 08/24/23 15:10 | 1 |
| Oxygen, Dissolved | 1.16 | | | | mg/L | | | 08/24/23 15:10 | 1 |
| Specific Conductance | 1241 | | | | umhos/cm | | | 08/24/23 15:10 | 1 |
| Turbidity | 3.49 | | | | NTU | | | 08/24/23 15:10 | 1 |

Client Sample Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
HEN-23Q3-002
SDG: HEN_845_802-805

Client Sample ID: HEN_18#S

Lab Sample ID: 500-238579-51

Date Collected: 08/28/23 08:35

Matrix: Water

Date Received: 08/28/23 15:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lithium | 0.049 | | 0.0050 | 0.0020 | mg/L | | 09/22/23 09:44 | 09/26/23 18:18 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Arsenic | 0.00089 | J B | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Barium | 0.055 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Beryllium | <0.0010 | | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Boron | 2.0 | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Calcium | 85 | B | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/11/23 13:59 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Molybdenum | 0.15 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Selenium | 0.019 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/10/23 12:28 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 09/01/23 12:30 | 09/05/23 07:31 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 74 | | 5.0 | 0.58 | mg/L | | | 08/30/23 16:35 | 5 |
| Fluoride (EPA 300.0) | 0.24 | J | 1.0 | 0.19 | mg/L | | | 08/30/23 16:20 | 1 |
| Sulfate (EPA 300.0) | 120 | | 5.0 | 1.0 | mg/L | | | 08/30/23 16:35 | 5 |
| Total Dissolved Solids (SM 2540C) | 550 | | 10 | 4.3 | mg/L | | | 08/30/23 22:29 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Field pH | 7.38 | | | | SU | | | 08/28/23 08:35 | 1 |
| Field Temperature | 16.8 | | | | Degrees C | | | 08/28/23 08:35 | 1 |
| Oxidation Reduction Potential | 94.1 | | | | millivolts | | | 08/28/23 08:35 | 1 |
| Oxygen, Dissolved | 0.20 | | | | mg/L | | | 08/28/23 08:35 | 1 |
| Specific Conductance | 661 | | | | umhos/cm | | | 08/28/23 08:35 | 1 |
| Turbidity | 2.46 | | | | NTU | | | 08/28/23 08:35 | 1 |

Client Sample Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
HEN-23Q3-006
SDG: HEN_845_802-805

Client Sample ID: HEN_03R

Lab Sample ID: 500-238579-53

Date Collected: 08/28/23 09:45

Matrix: Water

Date Received: 08/28/23 15:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lithium | 0.018 | | 0.0050 | 0.0020 | mg/L | | 09/22/23 09:44 | 09/26/23 18:26 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 09:05 | 09/05/23 18:40 | 1 |
| Arsenic | 0.00058 | J | 0.0010 | 0.00023 | mg/L | | 09/01/23 09:05 | 10/04/23 21:15 | 1 |
| Barium | 0.057 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 09:05 | 09/05/23 18:40 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 09:05 | 10/04/23 21:15 | 1 |
| Boron | 0.43 | | 0.050 | 0.013 | mg/L | | 09/01/23 09:05 | 10/04/23 21:15 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 09:05 | 09/05/23 18:40 | 1 |
| Calcium | 81 | | 0.20 | 0.044 | mg/L | | 09/01/23 09:05 | 09/05/23 18:40 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 09:05 | 09/05/23 18:40 | 1 |
| Cobalt | 0.00041 | J | 0.0010 | 0.00040 | mg/L | | 09/01/23 09:05 | 09/05/23 18:40 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 09:05 | 09/05/23 18:40 | 1 |
| Molybdenum | 0.093 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 09:05 | 09/05/23 18:40 | 1 |
| Selenium | 0.0037 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 09:05 | 09/05/23 18:40 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 09:05 | 09/05/23 18:40 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|----------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 09/06/23 09:20 | 09/07/23 07:39 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 75 | | 5.0 | 0.58 | mg/L | | | 08/30/23 17:06 | 5 |
| Fluoride (EPA 300.0) | 0.33 | J | 1.0 | 0.19 | mg/L | | | 08/30/23 16:50 | 1 |
| Sulfate (EPA 300.0) | 78 | | 5.0 | 1.0 | mg/L | | | 08/30/23 17:06 | 5 |
| Total Dissolved Solids (SM 2540C) | 540 | | 10 | 4.3 | mg/L | | | 08/30/23 22:35 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Depth to Water (ft from MP) | 35.29 | | | | ft | | | 08/28/23 09:45 | 1 |
| Field pH | 7.20 | | | | SU | | | 08/28/23 09:45 | 1 |
| Field Temperature | 18.3 | | | | Degrees C | | | 08/28/23 09:45 | 1 |
| Oxidation Reduction Potential | 126.9 | | | | millivolts | | | 08/28/23 09:45 | 1 |
| Oxygen, Dissolved | 0.21 | | | | mg/L | | | 08/28/23 09:45 | 1 |
| Specific Conductance | 652 | | | | umhos/cm | | | 08/28/23 09:45 | 1 |
| Turbidity | 2.54 | | | | NTU | | | 08/28/23 09:45 | 1 |

Client Sample Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
SDG: HEN_845_802-805

Client Sample ID: HEN_45#S

Lab Sample ID: 500-238579-56

Date Collected: 08/28/23 11:15

Matrix: Water

Date Received: 08/28/23 15:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|--------|------|---|----------------|----------------|---------|
| Lithium | 0.013 | | 0.0050 | 0.0020 | mg/L | | 09/22/23 09:44 | 09/26/23 19:16 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|---------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/05/23 20:46 | 1 |
| Arsenic | 0.0011 | | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/07/23 00:07 | 1 |
| Barium | 0.082 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 20:46 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/09/23 13:26 | 1 |
| Boron | 0.24 | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/10/23 12:32 | 1 |
| Cadmium | 0.0011 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 20:46 | 1 |
| Calcium | 81 | B | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 20:46 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 20:46 | 1 |
| Cobalt | 0.0021 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 20:46 | 1 |
| Lead | 0.0012 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 20:46 | 1 |
| Molybdenum | 0.053 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/09/23 13:26 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/07/23 00:07 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/09/23 13:26 | 1 |

Method: SW846 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | 0.00012 | J | 0.00020 | 0.000079 | mg/L | | 09/06/23 09:20 | 09/07/23 08:08 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Chloride (EPA 300.0) | 91 | | 5.0 | 0.58 | mg/L | | | 08/30/23 17:36 | 5 |
| Fluoride (EPA 300.0) | 0.31 | J | 1.0 | 0.19 | mg/L | | | 08/30/23 17:21 | 1 |
| Sulfate (EPA 300.0) | 77 | | 5.0 | 1.0 | mg/L | | | 08/30/23 17:36 | 5 |
| Total Dissolved Solids (SM 2540C) | 570 | | 10 | 4.3 | mg/L | | | 08/30/23 22:42 | 1 |

Method: EPA Field Sampling - Field Sampling

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------|-----------|----|-----|------------|---|----------|----------------|---------|
| Depth to Water (ft from MP) | 18.98 | | | | ft | | | 08/28/23 11:15 | 1 |
| Field pH | 7.16 | | | | SU | | | 08/28/23 11:15 | 1 |
| Field Temperature | 19.1 | | | | Degrees C | | | 08/28/23 11:15 | 1 |
| Oxidation Reduction Potential | 120.2 | | | | millivolts | | | 08/28/23 11:15 | 1 |
| Oxygen, Dissolved | 0.17 | | | | mg/L | | | 08/28/23 11:15 | 1 |
| Specific Conductance | 640 | | | | umhos/cm | | | 08/28/23 11:15 | 1 |
| Turbidity | 55.66 | | | | NTU | | | 08/28/23 11:15 | 1 |

Definitions/Glossary

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

Job ID: 500-238579-15
SDG: HEN_845_802-805

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

General Chemistry

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

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| 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

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

ATTACHMENT B.
Job ID: 500-238579-15
HEN_845_802-805
SDG: HEN_845_802-805

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

Metals

Prep Batch: 729866

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-238579-13 | HEN_18&D | Total Recoverable | Water | 3005A | |
| MB 500-729866/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-729866/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

Prep Batch: 730135

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-13 | HEN_18&D | Total/NA | Water | 7470A | |
| 500-238579-28 | HEN_07 | Total/NA | Water | 7470A | |
| MB 500-730135/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-730135/13-A | Lab Control Sample | Total/NA | Water | 7470A | |

Analysis Batch: 730327

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-13 | HEN_18&D | Total/NA | Water | 7470A | 730135 |
| 500-238579-28 | HEN_07 | Total/NA | Water | 7470A | 730135 |
| MB 500-730135/12-A | Method Blank | Total/NA | Water | 7470A | 730135 |
| LCS 500-730135/13-A | Lab Control Sample | Total/NA | Water | 7470A | 730135 |

Prep Batch: 730358

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-30 | HEN_08 | Total/NA | Water | 7470A | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | 7470A | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | 7470A | |
| MB 500-730358/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-730358/13-A | Lab Control Sample | Total/NA | Water | 7470A | |

Filtration Batch: 730368

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-----------|--------|------------|------------|
| MB 500-730368/1-C | Method Blank | Total/NA | Water | FILTRATION | |

Prep Batch: 730528

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 3005A | |
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 3005A | |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 3005A | |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 3005A | |
| 500-238579-51 | HEN_18#S | Total Recoverable | Water | 3005A | |
| 500-238579-56 | HEN_45#S | Total Recoverable | Water | 3005A | |
| MB 500-730528/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-730528/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |

Prep Batch: 730537

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-238579-53 | HEN_03R | Total Recoverable | Water | 3005A | |
| MB 500-730537/1-A | Method Blank | Total Recoverable | Water | 3005A | |
| LCS 500-730537/2-A | Lab Control Sample | Total Recoverable | Water | 3005A | |
| 500-238579-53 MS | HEN_03R_MS | Total Recoverable | Water | 3005A | |
| 500-238579-53 MSD | HEN_03R_MSD | Total Recoverable | Water | 3005A | |
| 500-238579-53 DU | HEN_03R | Total Recoverable | Water | 3005A | |

QC Association Summary

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-23Q3

ATTACHMENT B.
Job ID: 500-238579-15
SDG: HEN_845_802-805

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

Metals

Analysis Batch: 730570

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-30 | HEN_08 | Total/NA | Water | 7470A | 730358 |
| 500-238579-32 | HEN_08&D | Total/NA | Water | 7470A | 730358 |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | 7470A | 730358 |
| MB 500-730358/12-A | Method Blank | Total/NA | Water | 7470A | 730358 |
| LCS 500-730358/13-A | Lab Control Sample | Total/NA | Water | 7470A | 730358 |

Prep Batch: 730601

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-51 | HEN_18#S | Total/NA | Water | 7470A | |
| MB 500-730368/1-C | Method Blank | Total/NA | Water | 7470A | 730368 |
| MB 500-730601/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-730601/13-A | Lab Control Sample | Total/NA | Water | 7470A | |

Analysis Batch: 730809

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-51 | HEN_18#S | Total/NA | Water | 7470A | 730601 |
| MB 500-730368/1-C | Method Blank | Total/NA | Water | 7470A | 730601 |
| MB 500-730601/12-A | Method Blank | Total/NA | Water | 7470A | 730601 |
| LCS 500-730601/13-A | Lab Control Sample | Total/NA | Water | 7470A | 730601 |

Prep Batch: 730985

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-53 | HEN_03R | Total/NA | Water | 7470A | |
| 500-238579-56 | HEN_45#S | Total/NA | Water | 7470A | |
| MB 500-730985/12-A | Method Blank | Total/NA | Water | 7470A | |
| LCS 500-730985/13-A | Lab Control Sample | Total/NA | Water | 7470A | |
| 500-238579-53 MS | HEN_03R_MS | Total/NA | Water | 7470A | |
| 500-238579-53 MSD | HEN_03R_MSD | Total/NA | Water | 7470A | |
| 500-238579-53 DU | HEN_03R | Total/NA | Water | 7470A | |

Analysis Batch: 731002

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-238579-13 | HEN_18&D | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-53 | HEN_03R | Total Recoverable | Water | 6020B | 730537 |
| MB 500-729866/1-A | Method Blank | Total Recoverable | Water | 6020B | 729866 |
| MB 500-730537/1-A | Method Blank | Total Recoverable | Water | 6020B | 730537 |
| LCS 500-729866/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 729866 |
| LCS 500-730537/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 730537 |
| 500-238579-53 MS | HEN_03R_MS | Total Recoverable | Water | 6020B | 730537 |
| 500-238579-53 MSD | HEN_03R_MSD | Total Recoverable | Water | 6020B | 730537 |
| 500-238579-53 DU | HEN_03R | Total Recoverable | Water | 6020B | 730537 |

Analysis Batch: 731203

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-53 | HEN_03R | Total/NA | Water | 7470A | 730985 |
| 500-238579-56 | HEN_45#S | Total/NA | Water | 7470A | 730985 |
| MB 500-730985/12-A | Method Blank | Total/NA | Water | 7470A | 730985 |
| LCS 500-730985/13-A | Lab Control Sample | Total/NA | Water | 7470A | 730985 |
| 500-238579-53 MS | HEN_03R_MS | Total/NA | Water | 7470A | 730985 |
| 500-238579-53 MSD | HEN_03R_MSD | Total/NA | Water | 7470A | 730985 |
| 500-238579-53 DU | HEN_03R | Total/NA | Water | 7470A | 730985 |

Eurofins Chicago

QC Association Summary

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

ATTACHMENT B.
Job ID: 500-238579-15
SDG: HEN_845_802-805

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

Metals

Prep Batch: 733239

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-238579-13 | HEN_18&D | Total Recoverable | Water | 200.7 | |
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 200.7 | |
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 200.7 | |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 200.7 | |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 200.7 | |
| MB 500-733239/1-A | Method Blank | Total Recoverable | Water | 200.7 | |
| LCS 500-733239/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 | |

Prep Batch: 733472

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| MB 500-733472/1-A | Method Blank | Total Recoverable | Water | 200.7 | |
| LCS 500-733472/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 | |

Prep Batch: 733585

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------|-------------------|--------|--------|------------|
| 500-238579-51 | HEN_18#S | Total Recoverable | Water | 200.7 | |
| 500-238579-53 | HEN_03R | Total Recoverable | Water | 200.7 | |
| 500-238579-56 | HEN_45#S | Total Recoverable | Water | 200.7 | |
| 500-238579-53 MS | HEN_03R_MS | Total Recoverable | Water | 200.7 | |
| 500-238579-53 MSD | HEN_03R_MSD | Total Recoverable | Water | 200.7 | |
| 500-238579-53 DU | HEN_03R | Total Recoverable | Water | 200.7 | |

Analysis Batch: 734023

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|---------------|------------|
| 500-238579-13 | HEN_18&D | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| MB 500-733239/1-A | Method Blank | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |
| LCS 500-733239/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 Rev 4.4 | 733239 |

Analysis Batch: 734227

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|---------------|------------|
| 500-238579-51 | HEN_18#S | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |
| 500-238579-53 | HEN_03R | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |
| 500-238579-56 | HEN_45#S | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |
| MB 500-733472/1-A | Method Blank | Total Recoverable | Water | 200.7 Rev 4.4 | 733472 |
| LCS 500-733472/2-A | Lab Control Sample | Total Recoverable | Water | 200.7 Rev 4.4 | 733472 |
| 500-238579-53 MS | HEN_03R_MS | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |
| 500-238579-53 MSD | HEN_03R_MSD | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |
| 500-238579-53 DU | HEN_03R | Total Recoverable | Water | 200.7 Rev 4.4 | 733585 |

Analysis Batch: 735519

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 500-238579-13 | HEN_18&D | Total Recoverable | Water | 6020B | 729866 |
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-53 | HEN_03R | Total Recoverable | Water | 6020B | 730537 |

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QC Association Summary

845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 HEN_23852906

ATTACHMENT B.
 Job ID: 500-238579-15
 SDG: HEN_845_802-805

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

Metals (Continued)

Analysis Batch: 735519 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| MB 500-729866/1-A | Method Blank | Total Recoverable | Water | 6020B | 729866 |
| MB 500-730528/1-A | Method Blank | Total Recoverable | Water | 6020B | 730528 |
| MB 500-730537/1-A | Method Blank | Total Recoverable | Water | 6020B | 730537 |
| LCS 500-729866/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 729866 |
| LCS 500-730528/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 730528 |
| LCS 500-730537/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 730537 |
| 500-238579-53 MS | HEN_03R_MS | Total Recoverable | Water | 6020B | 730537 |
| 500-238579-53 MSD | HEN_03R_MSD | Total Recoverable | Water | 6020B | 730537 |
| 500-238579-53 DU | HEN_03R | Total Recoverable | Water | 6020B | 730537 |

Analysis Batch: 735776

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 500-238579-56 | HEN_45#S | Total Recoverable | Water | 6020B | 730528 |

Analysis Batch: 736032

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-56 | HEN_45#S | Total Recoverable | Water | 6020B | 730528 |
| MB 500-730528/1-A | Method Blank | Total Recoverable | Water | 6020B | 730528 |
| LCS 500-730528/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 730528 |

Analysis Batch: 736227

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-------------------|--------|--------|------------|
| 500-238579-30 | HEN_08 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-32 | HEN_08&D | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-34 | HEN_08_FD | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-56 | HEN_45#S | Total Recoverable | Water | 6020B | 730528 |
| MB 500-730528/1-A | Method Blank | Total Recoverable | Water | 6020B | 730528 |
| LCS 500-730528/2-A | Lab Control Sample | Total Recoverable | Water | 6020B | 730528 |

Analysis Batch: 736355

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 500-238579-28 | HEN_07 | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-51 | HEN_18#S | Total Recoverable | Water | 6020B | 730528 |
| 500-238579-56 | HEN_45#S | Total Recoverable | Water | 6020B | 730528 |

Analysis Batch: 736525

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-------------------|--------|--------|------------|
| 500-238579-51 | HEN_18#S | Total Recoverable | Water | 6020B | 730528 |

General Chemistry

Analysis Batch: 729689

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-13 | HEN_18&D | Total/NA | Water | 300.0 | |
| 500-238579-13 | HEN_18&D | Total/NA | Water | 300.0 | |
| MB 500-729689/34 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 500-729689/35 | Lab Control Sample | Total/NA | Water | 300.0 | |

QC Association Summary

845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 HEN_845_802-805

ATTACHMENT B.
 Job ID: 500-238579-15
 SDG: HEN_845_802-805

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

General Chemistry

Analysis Batch: 729794

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-238579-13 | HEN_18&D | Total/NA | Water | SM 2540C | |
| MB 500-729794/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-729794/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 729898

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-28 | HEN_07 | Total/NA | Water | 300.0 | |
| 500-238579-28 | HEN_07 | Total/NA | Water | 300.0 | |
| 500-238579-30 | HEN_08 | Total/NA | Water | 300.0 | |
| 500-238579-30 | HEN_08 | Total/NA | Water | 300.0 | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | 300.0 | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | 300.0 | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | 300.0 | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | 300.0 | |
| MB 500-729898/44 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 500-729898/45 | Lab Control Sample | Total/NA | Water | 300.0 | |

Analysis Batch: 730129

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 500-238579-28 | HEN_07 | Total/NA | Water | SM 2540C | |
| 500-238579-30 | HEN_08 | Total/NA | Water | SM 2540C | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | SM 2540C | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | SM 2540C | |
| MB 500-730129/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-730129/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |

Analysis Batch: 730144

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 500-238579-51 | HEN_18#S | Total/NA | Water | 300.0 | |
| 500-238579-51 | HEN_18#S | Total/NA | Water | 300.0 | |
| 500-238579-53 | HEN_03R | Total/NA | Water | 300.0 | |
| 500-238579-53 | HEN_03R | Total/NA | Water | 300.0 | |
| 500-238579-56 | HEN_45#S | Total/NA | Water | 300.0 | |
| 500-238579-56 | HEN_45#S | Total/NA | Water | 300.0 | |
| MB 500-730144/3 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 500-730144/4 | Lab Control Sample | Total/NA | Water | 300.0 | |

Analysis Batch: 730219

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 500-238579-51 | HEN_18#S | Total/NA | Water | SM 2540C | |
| 500-238579-53 | HEN_03R | Total/NA | Water | SM 2540C | |
| 500-238579-56 | HEN_45#S | Total/NA | Water | SM 2540C | |
| MB 500-730219/1 | Method Blank | Total/NA | Water | SM 2540C | |
| LCS 500-730219/2 | Lab Control Sample | Total/NA | Water | SM 2540C | |
| 500-238579-53 MS | HEN_03R_MS | Total/NA | Water | SM 2540C | |
| 500-238579-53 MSD | HEN_03R_MSD | Total/NA | Water | SM 2540C | |
| 500-238579-51 DU | HEN_18#S | Total/NA | Water | SM 2540C | |

Analysis Batch: 730323

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 500-730323/52 | Method Blank | Total/NA | Water | 300.0 | |

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QC Association Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
HEN_15_802-805
SDG: HEN_845_802-805

General Chemistry (Continued)

Analysis Batch: 730323 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| LCS 500-730323/53 | Lab Control Sample | Total/NA | Water | 300.0 | |
| 500-238579-53 MS | HEN_03R_MS | Total/NA | Water | 300.0 | |
| 500-238579-53 MS | HEN_03R_MS | Total/NA | Water | 300.0 | |
| 500-238579-53 MSD | HEN_03R_MSD | Total/NA | Water | 300.0 | |
| 500-238579-53 MSD | HEN_03R_MSD | Total/NA | Water | 300.0 | |

Field Service / Mobile Lab

Analysis Batch: 731893

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------------|------------|
| 500-238579-13 | HEN_18&D | Total/NA | Water | Field Sampling | |
| 500-238579-28 | HEN_07 | Total/NA | Water | Field Sampling | |
| 500-238579-30 | HEN_08 | Total/NA | Water | Field Sampling | |
| 500-238579-32 | HEN_08&D | Total/NA | Water | Field Sampling | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | Field Sampling | |
| 500-238579-51 | HEN_18#S | Total/NA | Water | Field Sampling | |
| 500-238579-53 | HEN_03R | Total/NA | Water | Field Sampling | |
| 500-238579-56 | HEN_45#S | Total/NA | Water | Field Sampling | |

QC Sample Results

ATTACHMENT B.
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-15
 SDG: HEN_845_802-805

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

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 500-733239/1-A
 Matrix: Water
 Analysis Batch: 734023

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 733239

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Lithium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 09/20/23 18:37 | 09/25/23 17:47 | 1 |

Lab Sample ID: LCS 500-733239/2-A
 Matrix: Water
 Analysis Batch: 734023

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 733239

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Lithium | 0.250 | 0.264 | | mg/L | | 106 | 85 - 115 |

Lab Sample ID: MB 500-733472/1-A
 Matrix: Water
 Analysis Batch: 734227

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 733472

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|--------|------|---|----------------|----------------|---------|
| Lithium | <0.0050 | | 0.0050 | 0.0020 | mg/L | | 09/21/23 19:27 | 09/26/23 15:55 | 1 |

Lab Sample ID: LCS 500-733472/2-A
 Matrix: Water
 Analysis Batch: 734227

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 733472

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Lithium | 0.250 | 0.262 | | mg/L | | 105 | 85 - 115 |

Lab Sample ID: 500-238579-53 MS
 Matrix: Water
 Analysis Batch: 734227

Client Sample ID: HEN_03R_MS
 Prep Type: Total Recoverable
 Prep Batch: 733585

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Lithium | 0.018 | | 0.250 | 0.279 | | mg/L | | 104 | 70 - 130 |

Lab Sample ID: 500-238579-53 MSD
 Matrix: Water
 Analysis Batch: 734227

Client Sample ID: HEN_03R_MSD
 Prep Type: Total Recoverable
 Prep Batch: 733585

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Lithium | 0.018 | | 0.250 | 0.285 | | mg/L | | 107 | 70 - 130 | 2 | 20 |

Lab Sample ID: 500-238579-53 DU
 Matrix: Water
 Analysis Batch: 734227

Client Sample ID: HEN_03R
 Prep Type: Total Recoverable
 Prep Batch: 733585

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|---------|---------------|------------------|-----------|--------------|------|---|------|-----------|
| Lithium | 0.018 | | 0.0181 | | mg/L | | 0.08 | 20 |

QC Sample Results

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

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

Job ID: 500-238579-15
 SDG: HEN_845_802-805

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-729866/1-A
 Matrix: Water
 Analysis Batch: 731002

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 729866

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|---------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Arsenic | <0.0010 | | 0.0010 | 0.00023 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Barium | <0.0025 | | 0.0025 | 0.00073 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Beryllium | <0.0010 | | 0.0010 | 0.00053 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Calcium | <0.20 | | 0.20 | 0.044 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 08/29/23 08:50 | 09/05/23 14:24 | 1 |

Lab Sample ID: MB 500-729866/1-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 729866

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|-------|-------|------|---|----------------|----------------|---------|
| Boron | <0.050 | | 0.050 | 0.013 | mg/L | | 08/29/23 08:50 | 10/04/23 22:39 | 1 |

Lab Sample ID: LCS 500-729866/2-A
 Matrix: Water
 Analysis Batch: 731002

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 729866

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.500 | 0.522 | | mg/L | | 104 | 80 - 120 |
| Arsenic | 0.100 | 0.0921 | | mg/L | | 92 | 80 - 120 |
| Barium | 0.500 | 0.527 | | mg/L | | 105 | 80 - 120 |
| Beryllium | 0.0500 | 0.0547 | | mg/L | | 109 | 80 - 120 |
| Cadmium | 0.0500 | 0.0515 | | mg/L | | 103 | 80 - 120 |
| Calcium | 10.0 | 10.2 | | mg/L | | 102 | 80 - 120 |
| Chromium | 0.200 | 0.214 | | mg/L | | 107 | 80 - 120 |
| Cobalt | 0.500 | 0.546 | | mg/L | | 109 | 80 - 120 |
| Lead | 0.100 | 0.116 | | mg/L | | 116 | 80 - 120 |
| Molybdenum | 1.00 | 0.986 | | mg/L | | 99 | 80 - 120 |
| Selenium | 0.100 | 0.0939 | | mg/L | | 94 | 80 - 120 |
| Thallium | 0.100 | 0.115 | | mg/L | | 115 | 80 - 120 |

Lab Sample ID: LCS 500-729866/2-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 729866

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Boron | 1.00 | 0.934 | | mg/L | | 93 | 80 - 120 |

QC Sample Results

ATTACHMENT B.

HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 509-238579-15
HEN-23Q3
SDG: HEN_845_802-805

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

Lab Sample ID: MB 500-730528/1-A
Matrix: Water
Analysis Batch: 735519

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 730528

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|---------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Arsenic | 0.000279 | J | 0.0010 | 0.00023 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Barium | <0.0025 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Boron | <0.050 | | 0.050 | 0.013 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Calcium | 0.0704 | J | 0.20 | 0.044 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |
| Molybdenum | <0.0050 | | 0.0050 | 0.0025 | mg/L | | 09/01/23 08:58 | 10/05/23 02:29 | 1 |

Lab Sample ID: MB 500-730528/1-A
Matrix: Water
Analysis Batch: 736032

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 730528

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 08:58 | 10/06/23 22:41 | 1 |

Lab Sample ID: MB 500-730528/1-A
Matrix: Water
Analysis Batch: 736227

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 730528

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 08:58 | 10/09/23 12:24 | 1 |

Lab Sample ID: LCS 500-730528/2-A
Matrix: Water
Analysis Batch: 735519

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 730528

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.500 | 0.507 | | mg/L | | 101 | 80 - 120 |
| Arsenic | 0.100 | 0.0933 | | mg/L | | 93 | 80 - 120 |
| Barium | 0.500 | 0.546 | | mg/L | | 109 | 80 - 120 |
| Beryllium | 0.0500 | 0.0507 | ^1+ | mg/L | | 101 | 80 - 120 |
| Boron | 1.00 | 0.920 | | mg/L | | 92 | 80 - 120 |
| Cadmium | 0.0500 | 0.0504 | | mg/L | | 101 | 80 - 120 |
| Calcium | 10.0 | 9.67 | | mg/L | | 97 | 80 - 120 |
| Chromium | 0.200 | 0.207 | | mg/L | | 103 | 80 - 120 |
| Cobalt | 0.500 | 0.519 | | mg/L | | 104 | 80 - 120 |
| Lead | 0.100 | 0.112 | | mg/L | | 112 | 80 - 120 |
| Molybdenum | 1.00 | 0.975 | | mg/L | | 97 | 80 - 120 |

Lab Sample ID: LCS 500-730528/2-A
Matrix: Water
Analysis Batch: 736032

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 730528

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Selenium | 0.100 | 0.0967 | | mg/L | | 97 | 80 - 120 |

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QC Sample Results

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

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

Lab Sample ID: LCS 500-730528/2-A
 Matrix: Water
 Analysis Batch: 736227

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 730528

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Thallium | 0.100 | 0.111 | | mg/L | | 111 | 80 - 120 |

Lab Sample ID: MB 500-730537/1-A
 Matrix: Water
 Analysis Batch: 731002

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 730537

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|--------------|---------|---------|------|---|----------------|----------------|---------|
| Antimony | <0.0030 | | 0.0030 | 0.0013 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Barium | <0.0025 | | 0.0025 | 0.00073 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Cadmium | <0.00050 | | 0.00050 | 0.00017 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Calcium | <0.20 | | 0.20 | 0.044 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Chromium | <0.0050 | | 0.0050 | 0.0011 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Cobalt | <0.0010 | | 0.0010 | 0.00040 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Lead | <0.00050 | | 0.00050 | 0.00019 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Molybdenum | <0.00050 | | 0.00050 | 0.00025 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Selenium | <0.0025 | | 0.0025 | 0.00098 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |
| Thallium | <0.0020 | | 0.0020 | 0.00057 | mg/L | | 09/01/23 09:05 | 09/05/23 18:33 | 1 |

Lab Sample ID: MB 500-730537/1-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Method Blank
 Prep Type: Total Recoverable
 Prep Batch: 730537

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|-----------|--------------|--------|---------|------|---|----------------|----------------|---------|
| Arsenic | <0.0010 | | 0.0010 | 0.00023 | mg/L | | 09/01/23 09:05 | 10/04/23 20:49 | 1 |
| Beryllium | <0.0010 | ^1+ | 0.0010 | 0.00053 | mg/L | | 09/01/23 09:05 | 10/04/23 20:49 | 1 |
| Boron | <0.050 | | 0.050 | 0.013 | mg/L | | 09/01/23 09:05 | 10/04/23 20:49 | 1 |

Lab Sample ID: LCS 500-730537/2-A
 Matrix: Water
 Analysis Batch: 731002

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 730537

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|-------------|------------|---------------|------|---|------|-------------|
| Antimony | 0.500 | 0.522 | | mg/L | | 104 | 80 - 120 |
| Barium | 0.500 | 0.516 | | mg/L | | 103 | 80 - 120 |
| Cadmium | 0.0500 | 0.0502 | | mg/L | | 100 | 80 - 120 |
| Calcium | 10.0 | 10.0 | | mg/L | | 100 | 80 - 120 |
| Chromium | 0.200 | 0.210 | | mg/L | | 105 | 80 - 120 |
| Cobalt | 0.500 | 0.531 | | mg/L | | 106 | 80 - 120 |
| Lead | 0.100 | 0.112 | | mg/L | | 112 | 80 - 120 |
| Molybdenum | 1.00 | 0.984 | | mg/L | | 98 | 80 - 120 |
| Selenium | 0.100 | 0.0919 | | mg/L | | 92 | 80 - 120 |
| Thallium | 0.100 | 0.112 | | mg/L | | 112 | 80 - 120 |

Lab Sample ID: LCS 500-730537/2-A
 Matrix: Water
 Analysis Batch: 735519

Client Sample ID: Lab Control Sample
 Prep Type: Total Recoverable
 Prep Batch: 730537

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Arsenic | 0.100 | 0.0974 | | mg/L | | 97 | 80 - 120 |

QC Sample Results

ATTACHMENT B.

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
HEN_845_802-805
SDG: HEN_845_802-805

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

Lab Sample ID: LCS 500-730537/2-A
Matrix: Water
Analysis Batch: 735519

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 730537

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|-------------|------------|---------------|------|---|------|-------------|
| Beryllium | 0.0500 | 0.0527 | ^1+ | mg/L | | 105 | 80 - 120 |
| Boron | 1.00 | 1.01 | | mg/L | | 101 | 80 - 120 |

Lab Sample ID: 500-238579-53 MS
Matrix: Water
Analysis Batch: 731002

Client Sample ID: HEN_03R_MS
Prep Type: Total Recoverable
Prep Batch: 730537

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Antimony | <0.0030 | | 0.500 | 0.540 | | mg/L | | 108 | 75 - 125 |
| Barium | 0.057 | | 0.500 | 0.580 | | mg/L | | 105 | 75 - 125 |
| Cadmium | <0.00050 | | 0.0500 | 0.0512 | | mg/L | | 102 | 75 - 125 |
| Calcium | 81 | | 10.0 | 88.7 | 4 | mg/L | | 74 | 75 - 125 |
| Chromium | <0.0050 | | 0.200 | 0.194 | | mg/L | | 97 | 75 - 125 |
| Cobalt | 0.00041 | J | 0.500 | 0.477 | | mg/L | | 95 | 75 - 125 |
| Lead | <0.00050 | | 0.100 | 0.110 | | mg/L | | 110 | 75 - 125 |
| Molybdenum | 0.093 | | 1.00 | 1.10 | | mg/L | | 101 | 75 - 125 |
| Selenium | 0.0037 | | 0.100 | 0.0986 | | mg/L | | 95 | 75 - 125 |
| Thallium | <0.0020 | | 0.100 | 0.113 | | mg/L | | 113 | 75 - 125 |

Lab Sample ID: 500-238579-53 MS
Matrix: Water
Analysis Batch: 735519

Client Sample ID: HEN_03R_MS
Prep Type: Total Recoverable
Prep Batch: 730537

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Arsenic | 0.00058 | J | 0.100 | 0.100 | | mg/L | | 100 | 75 - 125 |
| Beryllium | <0.0010 | ^1+ | 0.0500 | 0.0435 | ^1+ | mg/L | | 87 | 75 - 125 |
| Boron | 0.43 | | 1.00 | 1.30 | | mg/L | | 87 | 75 - 125 |

Lab Sample ID: 500-238579-53 MSD
Matrix: Water
Analysis Batch: 731002

Client Sample ID: HEN_03R_MSD
Prep Type: Total Recoverable
Prep Batch: 730537

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Antimony | <0.0030 | | 0.500 | 0.533 | | mg/L | | 107 | 75 - 125 | 1 | 20 |
| Barium | 0.057 | | 0.500 | 0.581 | | mg/L | | 105 | 75 - 125 | 0 | 20 |
| Cadmium | <0.00050 | | 0.0500 | 0.0509 | | mg/L | | 102 | 75 - 125 | 1 | 20 |
| Calcium | 81 | | 10.0 | 89.6 | 4 | mg/L | | 83 | 75 - 125 | 1 | 20 |
| Chromium | <0.0050 | | 0.200 | 0.196 | | mg/L | | 98 | 75 - 125 | 1 | 20 |
| Cobalt | 0.00041 | J | 0.500 | 0.481 | | mg/L | | 96 | 75 - 125 | 1 | 20 |
| Lead | <0.00050 | | 0.100 | 0.111 | | mg/L | | 111 | 75 - 125 | 1 | 20 |
| Molybdenum | 0.093 | | 1.00 | 1.11 | | mg/L | | 101 | 75 - 125 | 1 | 20 |
| Selenium | 0.0037 | | 0.100 | 0.0971 | | mg/L | | 93 | 75 - 125 | 1 | 20 |
| Thallium | <0.0020 | | 0.100 | 0.112 | | mg/L | | 112 | 75 - 125 | 1 | 20 |

Lab Sample ID: 500-238579-53 MSD
Matrix: Water
Analysis Batch: 735519

Client Sample ID: HEN_03R_MSD
Prep Type: Total Recoverable
Prep Batch: 730537

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Arsenic | 0.00058 | J | 0.100 | 0.100 | | mg/L | | 100 | 75 - 125 | 0 | 20 |

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QC Sample Results

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
HEN-23Q3-006
SDG: HEN_845_802-805

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

Lab Sample ID: 500-238579-53 MSD
Matrix: Water
Analysis Batch: 735519

Client Sample ID: HEN_03R_MSD
Prep Type: Total Recoverable
Prep Batch: 730537

| 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 | 0.0457 | ^1+ | mg/L | | 91 | 75 - 125 | 5 | 20 |
| Boron | 0.43 | | 1.00 | 1.35 | | mg/L | | 91 | 75 - 125 | 3 | 20 |

Lab Sample ID: 500-238579-53 DU
Matrix: Water
Analysis Batch: 731002

Client Sample ID: HEN_03R
Prep Type: Total Recoverable
Prep Batch: 730537

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Antimony | <0.0030 | | <0.0030 | | mg/L | | NC | 20 |
| Barium | 0.057 | | 0.0577 | | mg/L | | 2 | 20 |
| Cadmium | <0.00050 | | <0.00050 | | mg/L | | NC | 20 |
| Calcium | 81 | | 82.1 | | mg/L | | 0.9 | 20 |
| Chromium | <0.0050 | | <0.0050 | | mg/L | | NC | 20 |
| Cobalt | 0.00041 | J | <0.0010 | | mg/L | | NC | 20 |
| Lead | <0.00050 | | <0.00050 | | mg/L | | NC | 20 |
| Molybdenum | 0.093 | | 0.0940 | | mg/L | | 2 | 20 |
| Selenium | 0.0037 | | 0.00410 | | mg/L | | 10 | 20 |
| Thallium | <0.0020 | | <0.0020 | | mg/L | | NC | 20 |

Lab Sample ID: 500-238579-53 DU
Matrix: Water
Analysis Batch: 735519

Client Sample ID: HEN_03R
Prep Type: Total Recoverable
Prep Batch: 730537

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|-----------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Arsenic | 0.00058 | J | 0.000683 | J | mg/L | | 17 | 20 |
| Beryllium | <0.0010 | ^1+ | <0.0010 | ^1+ | mg/L | | NC | 20 |
| Boron | 0.43 | | 0.440 | | mg/L | | 2 | 20 |

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-730135/12-A
Matrix: Water
Analysis Batch: 730327

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730135

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/30/23 11:30 | 08/31/23 06:53 | 1 |

Lab Sample ID: LCS 500-730135/13-A
Matrix: Water
Analysis Batch: 730327

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 730135

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00201 | 0.00206 | | mg/L | | 103 | 80 - 120 |

Lab Sample ID: MB 500-730358/12-A
Matrix: Water
Analysis Batch: 730570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 730358

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 08/31/23 11:45 | 09/01/23 06:55 | 1 |

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QC Sample Results

ATTACHMENT B.
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-15
 HEN_845_802-806
 SDG: HEN_845_802-805

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

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

Lab Sample ID: LCS 500-730358/13-A
 Matrix: Water
 Analysis Batch: 730570

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 730358

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00201 | 0.00201 | | mg/L | | 100 | 80 - 120 |

Lab Sample ID: MB 500-730368/1-C
 Matrix: Water
 Analysis Batch: 730809

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 730601

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 09/01/23 12:30 | 09/05/23 06:57 | 1 |

Lab Sample ID: MB 500-730601/12-A
 Matrix: Water
 Analysis Batch: 730809

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 730601

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 09/01/23 12:30 | 09/05/23 06:53 | 1 |

Lab Sample ID: LCS 500-730601/13-A
 Matrix: Water
 Analysis Batch: 730809

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 730601

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00201 | 0.00209 | | mg/L | | 104 | 80 - 120 |

Lab Sample ID: MB 500-730985/12-A
 Matrix: Water
 Analysis Batch: 731203

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 730985

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|---------|----------|------|---|----------------|----------------|---------|
| Mercury | <0.00020 | | 0.00020 | 0.000079 | mg/L | | 09/06/23 09:20 | 09/07/23 07:26 | 1 |

Lab Sample ID: LCS 500-730985/13-A
 Matrix: Water
 Analysis Batch: 731203

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 730985

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|-------------|------------|---------------|------|---|------|-------------|
| Mercury | 0.00201 | 0.00206 | | mg/L | | 103 | 80 - 120 |

Lab Sample ID: 500-238579-53 MS
 Matrix: Water
 Analysis Batch: 731203

Client Sample ID: HEN_03R_MS
 Prep Type: Total/NA
 Prep Batch: 730985

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Mercury | <0.00020 | | 0.00100 | 0.00102 | | mg/L | | 102 | 75 - 125 |

Lab Sample ID: 500-238579-53 MSD
 Matrix: Water
 Analysis Batch: 731203

Client Sample ID: HEN_03R_MSD
 Prep Type: Total/NA
 Prep Batch: 730985

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Mercury | <0.00020 | | 0.00100 | 0.00107 | | mg/L | | 107 | 75 - 125 | 5 | 20 |

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QC Sample Results

ATTACHMENT B.
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-15
 SDG: HEN_845_802-805

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

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 500-238579-53 DU
 Matrix: Water
 Analysis Batch: 731203

Client Sample ID: HEN_03R
 Prep Type: Total/NA
 Prep Batch: 730985

| 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 500-729689/34
 Matrix: Water
 Analysis Batch: 729689

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | <1.0 | | 1.0 | 0.12 | mg/L | | | 08/28/23 18:23 | 1 |
| Fluoride | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/28/23 18:23 | 1 |
| Sulfate | <1.0 | | 1.0 | 0.21 | mg/L | | | 08/28/23 18:23 | 1 |

Lab Sample ID: LCS 500-729689/35
 Matrix: Water
 Analysis Batch: 729689

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 20.0 | 19.6 | | mg/L | | 98 | 90 - 110 |
| Fluoride | 20.0 | 20.2 | | mg/L | | 101 | 90 - 110 |
| Sulfate | 20.0 | 20.9 | | mg/L | | 104 | 90 - 110 |

Lab Sample ID: MB 500-729898/44
 Matrix: Water
 Analysis Batch: 729898

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | <1.0 | | 1.0 | 0.12 | mg/L | | | 08/29/23 20:50 | 1 |
| Fluoride | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/29/23 20:50 | 1 |
| Sulfate | <1.0 | | 1.0 | 0.21 | mg/L | | | 08/29/23 20:50 | 1 |

Lab Sample ID: LCS 500-729898/45
 Matrix: Water
 Analysis Batch: 729898

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 20.0 | 19.7 | | mg/L | | 98 | 90 - 110 |
| Fluoride | 20.0 | 20.4 | | mg/L | | 102 | 90 - 110 |
| Sulfate | 20.0 | 20.9 | | mg/L | | 104 | 90 - 110 |

Lab Sample ID: MB 500-730144/3
 Matrix: Water
 Analysis Batch: 730144

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | <1.0 | | 1.0 | 0.12 | mg/L | | | 08/30/23 13:15 | 1 |
| Fluoride | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/30/23 13:15 | 1 |
| Sulfate | <1.0 | | 1.0 | 0.21 | mg/L | | | 08/30/23 13:15 | 1 |

QC Sample Results

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

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 500-730144/4
 Matrix: Water
 Analysis Batch: 730144

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 20.0 | 19.5 | | mg/L | | 97 | 90 - 110 |
| Fluoride | 20.0 | 20.1 | | mg/L | | 100 | 90 - 110 |
| Sulfate | 20.0 | 20.8 | | mg/L | | 104 | 90 - 110 |

Lab Sample ID: MB 500-730323/52
 Matrix: Water
 Analysis Batch: 730323

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Chloride | <1.0 | | 1.0 | 0.12 | mg/L | | | 08/31/23 23:11 | 1 |
| Fluoride | <1.0 | | 1.0 | 0.19 | mg/L | | | 08/31/23 23:11 | 1 |
| Sulfate | <1.0 | | 1.0 | 0.21 | mg/L | | | 08/31/23 23:11 | 1 |

Lab Sample ID: LCS 500-730323/53
 Matrix: Water
 Analysis Batch: 730323

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|------|---|------|-------------|
| Chloride | 20.0 | 19.2 | | mg/L | | 96 | 90 - 110 |
| Fluoride | 20.0 | 19.6 | | mg/L | | 98 | 90 - 110 |
| Sulfate | 20.0 | 20.7 | | mg/L | | 104 | 90 - 110 |

Lab Sample ID: 500-238579-53 MS
 Matrix: Water
 Analysis Batch: 730323

Client Sample ID: HEN_03R_MS
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Fluoride | 0.33 | J | 10.0 | 8.88 | | mg/L | | 86 | 80 - 120 |

Lab Sample ID: 500-238579-53 MS
 Matrix: Water
 Analysis Batch: 730323

Client Sample ID: HEN_03R_MS
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Chloride | 75 | | 50.0 | 124 | | mg/L | | 98 | 80 - 120 |
| Sulfate | 78 | | 50.0 | 131 | | mg/L | | 105 | 80 - 120 |

Lab Sample ID: 500-238579-53 MSD
 Matrix: Water
 Analysis Batch: 730323

Client Sample ID: HEN_03R_MSD
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Fluoride | 0.33 | J | 10.0 | 9.87 | | mg/L | | 95 | 80 - 120 | 11 | 20 |

Lab Sample ID: 500-238579-53 MSD
 Matrix: Water
 Analysis Batch: 730323

Client Sample ID: HEN_03R_MSD
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Chloride | 75 | | 50.0 | 124 | | mg/L | | 97 | 80 - 120 | 0 | 20 |

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QC Sample Results

ATTACHMENT B.
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-15
 SDG: HEN_845_802-805

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

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 500-238579-53 MSD
 Matrix: Water
 Analysis Batch: 730323

Client Sample ID: HEN_03R_MSD
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Sulfate | 78 | | 50.0 | 130 | | mg/L | | 105 | 80 - 120 | 0 | 20 |

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

Lab Sample ID: MB 500-729794/1
 Matrix: Water
 Analysis Batch: 729794

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 4.3 | mg/L | | | 08/28/23 20:37 | 1 |

Lab Sample ID: LCS 500-729794/2
 Matrix: Water
 Analysis Batch: 729794

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 | 232 | | mg/L | | 93 | 80 - 120 |

Lab Sample ID: MB 500-730129/1
 Matrix: Water
 Analysis Batch: 730129

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 4.3 | mg/L | | | 08/30/23 11:22 | 1 |

Lab Sample ID: LCS 500-730129/2
 Matrix: Water
 Analysis Batch: 730129

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 | 290 | | mg/L | | 116 | 80 - 120 |

Lab Sample ID: MB 500-730219/1
 Matrix: Water
 Analysis Batch: 730219

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|----|-----|------|---|----------|----------------|---------|
| Total Dissolved Solids | <10 | | 10 | 4.3 | mg/L | | | 08/30/23 21:46 | 1 |

Lab Sample ID: LCS 500-730219/2
 Matrix: Water
 Analysis Batch: 730219

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|-------------|------------|---------------|------|---|------|-------------|
| Total Dissolved Solids | 250 | 236 | | mg/L | | 94 | 80 - 120 |

QC Sample Results

ATTACHMENT B.
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-15
 SDG: HEN_845_802-805

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

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

Lab Sample ID: 500-238579-53 MS
 Matrix: Water
 Analysis Batch: 730219

Client Sample ID: HEN_03R_MS
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| Total Dissolved Solids | 540 | | 250 | 786 | | mg/L | | 98 | 75 - 125 |

Lab Sample ID: 500-238579-53 MSD
 Matrix: Water
 Analysis Batch: 730219

Client Sample ID: HEN_03R_MSD
 Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| Total Dissolved Solids | 540 | | 250 | 810 | | mg/L | | 108 | 75 - 125 | 3 | 20 |

Lab Sample ID: 500-238579-51 DU
 Matrix: Water
 Analysis Batch: 730219

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

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | RPD Limit |
|------------------------|---------------|------------------|-----------|--------------|------|---|-----|-----------|
| Total Dissolved Solids | 550 | | 566 | | mg/L | | 3 | 5 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
HEN_845_802-805
SDG: HEN_845_802-805

Client Sample ID: HEN_18&D

Lab Sample ID: 500-238579-13

Date Collected: 08/23/23 14:05

Matrix: Water

Date Received: 08/24/23 09:38

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|----------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 ¹ |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 18:41 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 731002 | EH | EET CHI | 09/05/23 15:33 |
| Total Recoverable | Prep | 3005A | | | 729866 | BDE | EET CHI | 08/29/23 08:50 - 08/29/23 09:20 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/04/23 23:54 |
| Total/NA | Prep | 7470A | | | 730135 | MJG | EET CHI | 08/30/23 11:30 - 08/30/23 13:30 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 730327 | MJG | EET CHI | 08/31/23 07:25 |
| Total/NA | Analysis | 300.0 | | 1 | 729689 | W1T | EET CHI | 08/29/23 05:16 |
| Total/NA | Analysis | 300.0 | | 5 | 729689 | W1T | EET CHI | 08/29/23 05:31 |
| Total/NA | Analysis | SM 2540C | | 1 | 729794 | CLB | EET CHI | 08/28/23 21:10 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/23/23 14:05 |

Client Sample ID: HEN_07

Lab Sample ID: 500-238579-28

Date Collected: 08/24/23 14:00

Matrix: Water

Date Received: 08/25/23 09:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|----------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 ¹ |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:31 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 02:41 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736032 | BJH | EET CHI | 10/06/23 22:51 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736355 | BJH | EET CHI | 10/10/23 12:10 |
| Total/NA | Prep | 7470A | | | 730135 | MJG | EET CHI | 08/30/23 11:30 - 08/30/23 13:30 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 730327 | MJG | EET CHI | 08/31/23 07:49 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 21:20 |
| Total/NA | Analysis | 300.0 | | 5 | 729898 | W1T | EET CHI | 08/29/23 21:35 |
| Total/NA | Analysis | SM 2540C | | 1 | 730129 | SO | EET CHI | 08/30/23 11:27 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/24/23 14:00 |

Client Sample ID: HEN_08

Lab Sample ID: 500-238579-30

Date Collected: 08/24/23 15:10

Matrix: Water

Date Received: 08/25/23 09:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 ¹ |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:35 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 02:44 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736032 | BJH | EET CHI | 10/06/23 22:55 |

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ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
SDG: HEN_845_802-805

Client Sample ID: HEN_08
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-30
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|----------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736227 | JP | EET CHI | 10/09/23 12:38 |
| Total/NA | Prep | 7470A | | | 730358 | MJG | EET CHI | 08/31/23 11:45 - 08/31/23 13:45 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 730570 | MJG | EET CHI | 09/01/23 07:02 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 21:50 |
| Total/NA | Analysis | 300.0 | | 10 | 729898 | W1T | EET CHI | 08/29/23 22:36 |
| Total/NA | Analysis | SM 2540C | | 1 | 730129 | SO | EET CHI | 08/30/23 11:30 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/24/23 15:10 |

Client Sample ID: HEN_08&D
Date Collected: 08/24/23 12:25
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-32
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|----------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 ¹ |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:40 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 02:48 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736032 | BJH | EET CHI | 10/06/23 22:58 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736227 | JP | EET CHI | 10/09/23 12:41 |
| Total/NA | Prep | 7470A | | | 730358 | MJG | EET CHI | 08/31/23 11:45 - 08/31/23 13:45 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 730570 | MJG | EET CHI | 09/01/23 07:04 |
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 22:51 |
| Total/NA | Analysis | 300.0 | | 10 | 729898 | W1T | EET CHI | 08/29/23 23:06 |
| Total/NA | Analysis | SM 2540C | | 1 | 730129 | SO | EET CHI | 08/30/23 11:33 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/24/23 12:25 |

Client Sample ID: HEN_08_FD
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-34
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|---------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 200.7 | | | 733239 | MC | EET CHI | 09/20/23 18:37 - 09/20/23 23:37 ¹ |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734023 | RN | EET CHI | 09/25/23 19:44 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/05/23 02:59 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736032 | BJH | EET CHI | 10/06/23 23:01 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736227 | JP | EET CHI | 10/09/23 12:45 |
| Total/NA | Prep | 7470A | | | 730358 | MJG | EET CHI | 08/31/23 11:45 - 08/31/23 13:45 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 730570 | MJG | EET CHI | 09/01/23 07:06 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
SDG: HEN_845_802-805

Client Sample ID: HEN_08_FD

Lab Sample ID: 500-238579-34

Date Collected: 08/24/23 15:10

Matrix: Water

Date Received: 08/25/23 09:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|----------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 300.0 | | 1 | 729898 | W1T | EET CHI | 08/29/23 23:21 |
| Total/NA | Analysis | 300.0 | | 10 | 729898 | W1T | EET CHI | 08/29/23 23:37 |
| Total/NA | Analysis | SM 2540C | | 1 | 730129 | SO | EET CHI | 08/30/23 11:36 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/24/23 15:10 |

Client Sample ID: HEN_18#S

Lab Sample ID: 500-238579-51

Date Collected: 08/28/23 08:35

Matrix: Water

Date Received: 08/28/23 15:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|----------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 200.7 | | | 733585 | BDE | EET CHI | 09/22/23 09:44 - 09/22/23 10:14 ¹ |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734227 | RN | EET CHI | 09/26/23 18:18 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736355 | BJH | EET CHI | 10/10/23 12:28 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736525 | BJH | EET CHI | 10/11/23 13:59 |
| Total/NA | Prep | 7470A | | | 730601 | MJG | EET CHI | 09/01/23 12:30 - 09/01/23 14:30 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 730809 | MJG | EET CHI | 09/05/23 07:31 |
| Total/NA | Analysis | 300.0 | | 1 | 730144 | EH | EET CHI | 08/30/23 16:20 |
| Total/NA | Analysis | 300.0 | | 5 | 730144 | EH | EET CHI | 08/30/23 16:35 |
| Total/NA | Analysis | SM 2540C | | 1 | 730219 | CLB | EET CHI | 08/30/23 22:29 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/28/23 08:35 |

Client Sample ID: HEN_03R

Lab Sample ID: 500-238579-53

Date Collected: 08/28/23 09:45

Matrix: Water

Date Received: 08/28/23 15:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|----------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 200.7 | | | 733585 | BDE | EET CHI | 09/22/23 09:44 - 09/22/23 10:14 ¹ |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734227 | RN | EET CHI | 09/26/23 18:26 |
| Total Recoverable | Prep | 3005A | | | 730537 | BDE | EET CHI | 09/01/23 09:05 - 09/01/23 09:35 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 731002 | EH | EET CHI | 09/05/23 18:40 |
| Total Recoverable | Prep | 3005A | | | 730537 | BDE | EET CHI | 09/01/23 09:05 - 09/01/23 09:35 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 735519 | BJH | EET CHI | 10/04/23 21:15 |
| Total/NA | Prep | 7470A | | | 730985 | MJG | EET CHI | 09/06/23 09:20 - 09/06/23 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 731203 | MJG | EET CHI | 09/07/23 07:39 |
| Total/NA | Analysis | 300.0 | | 1 | 730144 | EH | EET CHI | 08/30/23 16:50 |
| Total/NA | Analysis | 300.0 | | 5 | 730144 | EH | EET CHI | 08/30/23 17:06 |
| Total/NA | Analysis | SM 2540C | | 1 | 730219 | CLB | EET CHI | 08/30/23 22:35 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/28/23 09:45 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-15
SDG: HEN_845_802-805

Client Sample ID: HEN_45#S

Lab Sample ID: 500-238579-56

Date Collected: 08/28/23 11:15

Matrix: Water

Date Received: 08/28/23 15:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-------------------|------------|----------------|-----|-----------------|--------------|---------|---------|--|
| Total Recoverable | Prep | 200.7 | | | 733585 | BDE | EET CHI | 09/22/23 09:44 - 09/22/23 10:14 ¹ |
| Total Recoverable | Analysis | 200.7 Rev 4.4 | | 1 | 734227 | RN | EET CHI | 09/26/23 19:16 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 735776 | BJH | EET CHI | 10/05/23 20:46 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736032 | BJH | EET CHI | 10/07/23 00:07 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736227 | JP | EET CHI | 10/09/23 13:26 |
| Total Recoverable | Prep | 3005A | | | 730528 | BDE | EET CHI | 09/01/23 08:58 - 09/01/23 09:28 ¹ |
| Total Recoverable | Analysis | 6020B | | 1 | 736355 | BJH | EET CHI | 10/10/23 12:32 |
| Total/NA | Prep | 7470A | | | 730985 | MJG | EET CHI | 09/06/23 09:20 - 09/06/23 11:20 ¹ |
| Total/NA | Analysis | 7470A | | 1 | 731203 | MJG | EET CHI | 09/07/23 08:08 |
| Total/NA | Analysis | 300.0 | | 1 | 730144 | EH | EET CHI | 08/30/23 17:21 |
| Total/NA | Analysis | 300.0 | | 5 | 730144 | EH | EET CHI | 08/30/23 17:36 |
| Total/NA | Analysis | SM 2540C | | 1 | 730219 | CLB | EET CHI | 08/30/23 22:42 |
| Total/NA | Analysis | Field Sampling | | 1 | 731893 | DN | EET CHI | 08/28/23 11:15 |

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-23Q3

ATTACHMENT B.
 15 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-15
 HEN_845_802-805
 SDG: HEN_845_802-805

Laboratory: Eurofins Chicago

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

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

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

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|-------------------------------|
| 200.7 Rev 4.4 | 200.7 | Water | Lithium |
| Field Sampling | | Water | Depth to Water (ft from MP) |
| Field Sampling | | Water | Field pH |
| Field Sampling | | Water | Field Temperature |
| Field Sampling | | Water | Oxidation Reduction Potential |
| Field Sampling | | Water | Oxygen, Dissolved |
| Field Sampling | | Water | Specific Conductance |
| Field Sampling | | Water | Turbidity |

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CHAIN-OF-CUSTODY / Analytical Request Document

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

| Section A Required Client Information | | Section B Required Project Information | | Section C Invoice Information | | | | | | | | | | | | | | | | | | |
|---|--------------|--|--|---|--|---|--|-------------------|--|--|-------|--------------|----------------|-----|------|-------|---------------|--|----|--------|--|--|
| Company: <u>Vistra Corp/A3</u> | | Report To: <u>Brian Voelker</u> | | Attention: <u>Jason Stuckey</u> | | <table border="1"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td colspan="2">Site Location</td> <td>IL</td> </tr> <tr> <td colspan="2">STATE:</td> <td></td> </tr> </table> | | REGULATORY AGENCY | | | NPDES | GROUND WATER | DRINKING WATER | UST | RCRA | OTHER | Site Location | | IL | STATE: | | |
| REGULATORY AGENCY | | | | | | | | | | | | | | | | | | | | | | |
| NPDES | GROUND WATER | DRINKING WATER | | | | | | | | | | | | | | | | | | | | |
| UST | RCRA | OTHER | | | | | | | | | | | | | | | | | | | | |
| Site Location | | IL | | | | | | | | | | | | | | | | | | | | |
| STATE: | | | | | | | | | | | | | | | | | | | | | | |
| Address: | | Copy To: <u>Jason Stuckey</u> | | Company Name: <u>Vistra Corp</u> | | | | | | | | | | | | | | | | | | |
| Email To: <u>Brian Voelker@VistraCorp.com</u> | | Purchase Order No.: | | Address: <u>see Section A</u> | | | | | | | | | | | | | | | | | | |
| Phone: (217) 753-8911 Fax: | | Project Name: | | Quote Reference: | | | | | | | | | | | | | | | | | | |
| Requested Due Date/TAT: 10 day | | Project Number: <u>2285</u> | | Project Manager: | | | | | | | | | | | | | | | | | | |
| | | | | Profile #: | | | | | | | | | | | | | | | | | | |

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| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE | COLLECTED DATE TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | | | | | | | | Analysis Test Y/N | Requested Analysis Filtered (Y/N) | | | | | | | Project No./ Lab ID |
|----------------------------|--|-----------------------------------|------------------------|---------------------------|-----------------|---------------------------------------|--------------------------------|-----------------------------|------|----------------------|---|----------|-------|-------|--------------|----------------|-----|------|-------|----------------------|-----------------------------------|--|--|--|--|--|--|---------------------|
| | | | | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | NPDES | GROUND WATER | DRINKING WATER | UST | RCRA | OTHER | | Residual Chlorine (Y/N) | | | | | | | |
| 1 | HEN_18&D | | <i>8/23/23 1405</i> | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ADDITIONAL COMMENTS | | RELEASED BY / AFFILIATION | | DATE | TIME | ACCEPTED BY / AFFILIATION | | DATE | TIME | SAMPLE CONDITIONS | | | | | | | | | | | | | | | | | | |
| HEN-23Q3 Rev 0 | | <i>[Signature]</i> | | 8/23/23 | 1700 | <i>[Signature] EETA</i> | | 8/24/23 | 0839 | | | | | | | | | | | | | | | | | | | |
| | | <i>[Signature] EETA</i> | | 8/24/23 | 0839 | <i>[Signature] Supreme Humandj...</i> | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLER NAME AND SIGNATURE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PRINT Name of SAMPLER | | | | | | <i>[Signature]</i> | | | | | | | | | | | | | | | | | | | | | | |
| SIGNATURE of SAMPLER | | | | | | | | DATE Signed (MM/DD/YY) | | 8/23/23 | | | | | | | | | | | | | | | | | | |
| Temp in C | | | | | | Received on ice (Y/N) | | Custody Sealed Cooler (Y/N) | | Samples Intact (Y/N) | | | | | | | | | | | | | | | | | | |

500-238579

CHAIN-OF-CUSTODY / Analytical Request Document

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

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

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| ITEM # | Section D Required Client Information SAMPLE ID (A-Z, 0-9 /) Sample IDs MUST BE UNIQUE | Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | | Analysis Test Y/N | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | Project No./ Lab I.D. | | | | | | | | | |
|--------|--|--|--|-----------------------------|-----------|------|---------------------------|-----------------|---------------|--------------------------------|------------------|-----|------|---|----------|-------|----------------------|-----------------------------------|---|---|---|---|---|---|---|---|---|---|---|-----------------------|---|---|---|---|--|-----------------|----------------------------|--|--|
| | | | | | DATE | TIME | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | HEN_07 | | | | 8/24/23 | 1400 | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | SHORT HOLDS-NO2 | | | |
| 2 | Trip Blank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Added W EETA 8/25/23 SH | | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|---|---|---|
| HEN-23Q3 Rev 0 | Allison Beckwith | 8/24/23 | 1700 | M. J. Elia EETA | 8/25/23 | 0925 | | Y | Y | Y |
| | M. J. Elia EETA | 8/25/23 | 0932 | Stephanie Hernandez EETA | 8/25/23 | 0932 | | | | |

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|----------------------------|------------------|---------------------------------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE | | Temp in C | Received on ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER | Allison Beckwith | | | | |
| SIGNATURE of SAMPLER | | | | | |
| | | DATE Signed (MM/DD/YY): 8/24/23 | | | |

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500-238579

CHAIN-OF-CUSTODY / Analytical Request Document

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

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| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE | DATE | TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Requested Analysis Filtered (Y/N) | | | | | | | | | | | | | Project No./ Lab ID | | | | | | | | | | | |
|--------|--|-----------------------------------|---------|------|---------------------------|-----------------|-----------------------------------|--------------------------------|------------------|-----|------|---|----------|-------|---------------|-------------|-------------|-------------|-------------|---------------------|-----------------|-------------|-------------|---------------------|-----------------|-------------|---------------|---------------|-------------------------|--|-----------------------------|
| | | | | | | | Preservatives | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | Analysis Test | HEN_257_801 | HEN_257_802 | HEN_257_803 | HEN_257_804 | HEN_811_801 | HEN_845_802-805 | HEN_845_803 | HEN_845_804 | HEN_CLOSURE_802-805 | HEN_CLOSURE_804 | HEN_SUP_000 | HEN_WPCP_East | HEN_WPCP_West | Residual Chlorine (Y/N) | | |
| 1 | HEN_08 | | 8/24/23 | 1510 | | | | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| 2 | Trip Blank | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Added by EEA 8/23/23 EHA |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|---------|------|---------------------------|---------|------|-------------------|
| HEN-23Q3 Rev 0 | Allison Beckett | 8/24/23 | 1700 | M. G. Elias EEA | 8/25/23 | 0925 | Y Y Y |
| | M. G. Elias EEA | 8/25/23 | 0932 | Stephanie Hammond EEA | 8/25/23 | 0932 | |

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|--|--|-----------|-----------------------|-----------------------------|----------------------|
| SAMPLER NAME AND SIGNATURE | | Temp in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
| PRINT Name of SAMPLER: Allison Beckett | | | | | |
| SIGNATURE of SAMPLER: <i>[Signature]</i> | | | | | |
| DATE Signed: 8/24/23 | | | | | |

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500-238579

CHAIN-OF-CUSTODY / Analytical Request Document

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

| REGULATORY AGENCY | | |
|-------------------|--------------|----------------|
| NPDES | GROUND WATER | DRINKING WATER |
| LIST | RCRA | OTFR |
| Site Location | IL | |
| STATE | | |

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| ITEM # | Section D Required Client Information | Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED | | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives | | | | | | | | Analysis Test Y/N | Requested Analysis Filtered (Y/N) | Project No./ Lab I D | | | | | | | |
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| | | | | | DATE | TIME | | | Unpreserved | H ₂ SO ₄ | HNO ₃ | HCl | NaOH | Na ₂ S ₂ O ₃ | Methanol | Other | | | | • | • | • | • | • | • | • |
| 1 | | | | | | 8/24/23 | 1510 | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | |
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| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|--------------------|------|---------------------------|---------|------|-------------------|
| HEN-23Q3 Rev 0 | Allison Bickler EETA | 8/23/23 | 170 | Stephanie Humandly EETA | 8/25/23 | 0825 | Y Y Y |
| | Stephanie Humandly EETA | 8/23/23 | 0932 | Allison Bickler EETA | 8/25/23 | 0932 | |

| SAMPLER NAME AND SIGNATURE | DATE Signed (MM/DD/YY) | Temp in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|----------------------------|------------------------|-----------|-----------------------|-----------------------------|----------------------|
| Allison Bickler | 8/24/23 | | | | |

Allison Bickler

24→2.0

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-238579-15
SDG Number: HEN_845_802-805

Login Number: 238579

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 | 0.6,0.7,0.3,1.2,0.8,0.4,0.1,2.9,1.7,3.7,1.0,2.8,0.2,2.0,2.9,0.1,1.63,0.1,3,0.5,2 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | False | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | False | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | False | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

SAR-3: Episodic Depth to Groundwater Measurements
 All DTWs on SAR-3 must be collected within 24 hours.
 Plant: HEN
 Event: HEN-23Q3 Rev 0

| Well | Unique ID | Date | Time | Measured Depth to Water (ft bmp) | Comments | Initials |
|-------|-----------------|---------|------|----------------------------------|----------------------------------|----------|
| | | | | | | |
| 02 | HEN_02 | 8/21/23 | 1200 | 41.84 | | CF |
| 04R | HEN_04R | 8/21/23 | 1035 | 37.08 | | CF |
| 05R | HEN_051R | 8/21/23 | 1105 | 38.69 | | CF |
| 05DR | HEN_05&DR | 8/21/23 | 1115 | 38.73 | | CF |
| 06 | HEN_06 | 8/21/23 | 1140 | 20.8 | | CF |
| 10 | HEN_10 | 8/21/23 | 0955 | 48.28 | | CF |
| 11 | HEN_11 | 8/21/23 | 0950 | 48.33 | | CF |
| 15 | HEN_15 | 8/21/23 | 1030 | 47.19 | | CF |
| 19S | HEN_19#S | 8/21/23 | 1045 | 37.2 | | CF |
| 19D | HEN_19&D | 8/21/23 | 1040 | 37.34 | | CF |
| 25 | HEN_25 | 8/22/23 | 0945 | 19.02 | * measured | CF |
| 26 | HEN_26 | 8/22/23 | 0940 | 13.26 | | CF |
| 30 | HEN_30 | 8/22/23 | 1000 | 4.85 | | CF |
| 31 | HEN_31 | 8/22/23 | 0955 | 4.85 | | CF |
| 33 | HEN_33 | 8/22/23 | 1018 | 2.8' | | CF |
| 36 | HEN_36 | 8/22/23 | 0930 | 13.58 | | CF |
| 40S | HEN_40#S | 8/21/23 | 1050 | 37.92 | | CF |
| 45S | HEN_45#S | 8/21/23 | 1125 | 18.98 | | CF |
| 48 | HEN_48 | 8/21/23 | 1055 | N/A | * could not measure due to block | CF |
| XPW01 | HEN_XPW01_pore | 8/21/23 | 1005 | 9.45 | | CF |
| XPW02 | HEN_XPW02_pore | 8/21/23 | 1010 | 14.19 | | CF |
| XPW03 | HEN_XPW03_pore | 8/21/23 | 1020 | 4.86 | | CF |
| XSG01 | HEN_XSG01 | | | | | |
| SG02 | HEN_YSG_ILRIVER | | | | | |

U:6/21/23 GKI

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|---|----------------|--|--|--|--------------------------|-------------------------------------|--------------------------|--------------------------|--|
| Site | Hennepin Mill | | | Major wells repairs* required to maintain well integrity? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Inspection Date | 9/21/23 @ 1148 | | | | | | | | |
| Well Number | HEN-000 | | | | | | | | |
| Stick-up Monitoring Wells | | | | Comments | | | | | |
| 1. Outer protective Casing | | | | Yes | No | NA | | | |
| Not corroded | | | | | X | | | | |
| Not dented | | | | | ↓ | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | | | |
| Not corroded | | | | | X | | | | |
| Not dented | | | | | ↓ | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | Yes | No | NA | | | |
| 3. Are there weep holes in outer casing? | | | | | | | | | |
| 4. Weep holes able to drain? | | | | | | X | | | |
| 5. Is there a lockable cap present? | | | | | | | | | |
| 6. Is there a lock present? | | | | X | | | | | |
| 7. Bumper posts in good condition? | | | | ↓ | | | | | |
| Flushmount Monitoring Wells | | | | | | | | | |
| 8. Can the lid be secured tightly? | | | | Yes | No | NA | | | |
| 9. Does the lid have a gasket that seals? | | | | | | X | | | |
| 10. No water in the flushmount? | | | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | | | |
| 12. Is there a lock present? | | | | | | ↓ | | | |
| All Monitoring Wells | | | | | | | | | |
| Downhole Condition | | | | | | | | | |
| 12. Water level measuring point clearly marked? | | | | Yes | No | NA | | | |
| 13. No obstructions in well? | | | | | X | | | | |
| 14. No plant roots or vegetation in well? | | | | | ↓ | | | | |
| 15. No sediment in bottom of well? | | | | | | | | | |
| If present, how much sediment? | | | | ft | | | | | |
| 16. Installed as total depth. | | | | ft | | | | | |
| 17. Measured total depth of well. | | | | 31.09ft | | | | | |
| General Condition | | | | | | | | | |
| 18. Concrete pad installed? | | | | Yes | No | NA | | | |
| 19. Concrete pad | | | | | X | | | | |
| Slope away from casing? | | | | | | X | | | |
| Not deteriorated? | | | | | | | | | |
| Not heaved or below surrounding grade? | | | | | | ↓ | | | |
| 20. No surface seal settling? | | | | | | | | | |
| 21. Well clearly visible and labeled? | | | | X | | | | | |
| Comments: | | | | DTW: 20.80 ft pump installed | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | |

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| Site | Hennepin, IL | | | Major wells repairs* required to maintain well integrity? | | | |
| Inspection Date | 8/11/23 @ 10:00 AM | | | | | | |
| Well Number | HEN-195 | | | | | | |
| Stick-up Monitoring Wells | | | | | | | |
| 1. Outer protective casing | | | | Yes | No | NA | Comments |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | | | |
| 3. Are there weep holes in outer casing? | | | | | | | |
| 4. Weep holes able to drain? | | | | | <input checked="" type="checkbox"/> | | |
| 5. Is there a lockable cap present? | | | | | | <input checked="" type="checkbox"/> | |
| 6. Is there a lock present? | | | | | | | |
| 7. Bumper posts in good condition? | | | | | <input checked="" type="checkbox"/> | | |
| Flushmount Monitoring Wells | | | | | | | |
| 8. Can the lid be secured tightly? | | | | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | | | | <input checked="" type="checkbox"/> | |
| 10. No water in the flushmount? | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | |
| 12. Is there a lock present? | | | | | | | |
| All Monitoring Wells | | | | | | | |
| Downhole Condition | | | | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | | | | <input checked="" type="checkbox"/> | |
| 13. No obstructions in well? | | | | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | | | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | | | | | | |
| If present, how much sediment? | | | | — | ft | | |
| 16. Installed as total depth. | | | | | 39.92 | ft | |
| 17. Measured total depth of well. | | | | | | | |
| General Condition | | | | | | | |
| 18. Concrete pad installed? | | | | Yes | No | NA | |
| Concrete pad | | | | | <input checked="" type="checkbox"/> | | |
| Slope away from casing? | | | | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | | | | | | |
| Not heaved or below surrounding grade? | | | | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal setting? | | | | | | | |
| 21. Well clearly visible and labeled? | | | | | <input checked="" type="checkbox"/> | | |
| Comments: | | | | | | | |
| DTW: 37.24 pump installed | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |

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| Site | Hennepin, #12 | | | Major wells repairs * required to maintain well integrity? | | | |
| Inspection Date | 9/21/23 @ 1040 | | | Yes | No | NA | |
| Well Number | HEN-19D | | | X | | | |

| Stick-up Monitoring Wells | | | | | | | |
|---|-----|----|----|--|--|--|----------|
| 1. Outer protective Casing | Yes | No | NA | | | | |
| Not corroded | | X | | | | | |
| Not dented | | ↕ | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | | | |
| 2. Inner casing | Yes | No | NA | | | | |
| Not corroded | | X | | | | | |
| Not dented | | | | | | | |
| Not cracked | | ↕ | | | | | |
| Not loose | Yes | No | NA | | | | |
| 3. Are there weep holes in outer casing? | | | | | | | |
| 4. Weep holes able to drain? | | | X | | | | |
| 5. Is there a lockable cap present? | | | | | | | |
| 6. Is there a lock present? | | | | | | | |
| 7. Bumper posts in good condition? | | ↕ | | | | | |
| Flushmount Monitoring Wells | | | | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | | | | |
| 9. Does the lid have a gasket that seals? | | | X | | | | |
| 10. No water in the flushmount? | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | |
| 12. Is there a lock present? | | | ↕ | | | | |
| All Monitoring Wells | | | | | | | |
| Downhole Condition | | | | | | | |
| 12. Water level measuring point clearly marked? | Yes | No | NA | | | | |
| 13. No obstructions in well? | | X | | | | | |
| 14. No plant roots or vegetation in well? | | ↕ | | | | | |
| 15. No sediment in bottom of well? | | | | | | | |
| If present, how much sediment? | | — | | | | | |
| 16. Installed as total depth. | | | | | | | |
| 17. Measured total depth of well. | | | | | | | |
| | | | | | | | 62.55 ft |
| | | | | | | | |
| General Condition | | | | | | | |
| 18. Concrete pad installed? | Yes | No | NA | | | | |
| 19. Concrete pad | X | | | | | | |
| Slope away from casing? | | X | | | | | |
| Not deteriorated? | | | | | | | |
| Not heaved or below surrounding grade? | | ↕ | | | | | |
| 20. No surface seal settling? | | | | | | | |
| 21. Well clearly visible and labeled? | X | | | | | | |
| Comments: | | | | | | | |
| DTW: 37.34 pump in well | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |

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|---|----------------|--|---|-----|----|-----------------|
| Site | HENNEPIN, IL | | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date | 8/21/23 @ 1035 | | | | | |
| Well Number | HEN-01R | | | | | |
| Stick-up Monitoring Wells | | | | | | |
| 1. Outer protective Casing | | | Yes | No | NA | Comments |
| Not corroded | | | | X | | |
| Not dented | | | | | | |
| Not cracked | | | | | | |
| Not loose | | | | ↓ | | |
| | | | | | | |
| 2. Inner casing | | | Yes | No | NA | Comments |
| Not corroded | | | | X | | |
| Not dented | | | | | | |
| Not cracked | | | | | | |
| Not loose | | | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | | | ↓ | | |
| 4. Weep holes able to drain? | | | | ↓ | | |
| 5. Is there a lockable cap present? | | | | | | |
| 6. Is there a lock present? | | | | | | |
| 7. Bumper posts in good condition? | | | | ↓ | | |
| | | | | | | |
| Flushmount Monitoring Wells | | | | | | |
| 8. Can the lid be secured tightly? | | | Yes | No | NA | Comments |
| 9. Does the lid have a gasket that seals? | | | | | X | |
| 10. No water in the flushmount? | | | | | | |
| 11. Is the well cap lockable? | | | | | ↓ | |
| 12. Is there a lock present? | | | | | | |
| | | | | | | |
| All Monitoring Wells | | | | | | |
| Downhole Condition | | | Yes | No | NA | Comments |
| 12. Water level measuring point clearly marked? | | | | | | |
| 13. No obstructions in well? | | | | X | | |
| 14. No plant roots or vegetation in well? | | | | ↓ | | |
| 15. No sediment in bottom of well? | | | | | X | |
| If present, how much sediment? | | | — | ft | | |
| 16. Installed as total depth. | | | 42.38 | ft | | |
| 17. Measured total depth of well. | | | | | | |
| | | | | | | |
| General Condition | | | | | | |
| 18. Concrete pad installed? | | | Yes | No | NA | Comments |
| 19. Concrete pad | | | X | | | |
| Slope away from casing? | | | X | | | |
| Not deteriorated? | | | X | | | |
| Not heaved or below surrounding grade? | | | X | | | |
| 20. No surface seal settling? | | | | X | | |
| 21. Well clearly visible and labeled? | | | X | | | |
| Comments: | | | | | | |
| Pad is cracked + may need repairs 37.08 DTW | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | |

Site Hennepin IL Major wells repairs* required to maintain well integrity? Yes No NA
 Inspection Date 8/21/23
 Well Number HEN-15

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|--|-----|-------------------------------------|----|----------|
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | | | |
| 4. Weep holes able to drain? | | | | |
| 5. Is there a lockable cap present? | | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

Flushmount Monitoring Wells

| | | | | |
|---|-------------------------------------|----|----|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | <input checked="" type="checkbox"/> | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

| | Yes | No | NA | |
|---|------|----|----|--|
| 12. Water level measuring point clearly marked? | Yes | No | NA | |
| 13. No obstructions in well? | | | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | | | | |
| 16. Installed as total depth. | — | | | |
| | ft | | | |
| 17. Measured total depth of well. | 50.3 | | | |
| | ft | | | |

General Condition

| | Yes | No | NA | |
|--|-------------------------------------|-------------------------------------|----|--|
| 18. Concrete pad installed? | <input checked="" type="checkbox"/> | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |

Comments:

Contains pump! DTW: 47.19ft
 Top of dump: 56.3ft

* Major well repair are those that require a subcontractor or separate mobilization to complete

Site Hennepin, IL Major wells repairs* required Yes No NA
 Inspection Date 8/21/23 @ 0950 to maintain well integrity?
 Well Number 11

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|----------------------------|--------------------------|-------------------------------------|--------------------------|----------|
| 1. Outer protective casing | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not corroded | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not dented | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not cracked | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not loose | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| | | | | |
|-----------------|--------------------------|-------------------------------------|--------------------------|--|
| 2. Inner casing | Yes | No | NA | |
| Not corroded | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not dented | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not cracked | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not loose | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| | | | | |
|--|--------------------------|-------------------------------------|--------------------------|--|
| 3. Are there weep holes in outer casing? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Weep holes able to drain? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5. Is there a lockable cap present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6. Is there a lock present? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7. Bumper posts in good condition? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Flushmount Monitoring Wells

| | | | | |
|---|-------------------------------------|-------------------------------------|--------------------------|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 10. No water in the flushmount? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 11. Is the well cap lockable? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 12. Is there a lock present? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

All Monitoring Wells

| | Yes | No | NA | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|--|
| 12. Water level measuring point clearly marked? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 13. No obstructions in well? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 14. No plant roots or vegetation in well? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 15. No sediment in bottom of well? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| If present, how much sediment? | <u>1</u> ft | | | |
| 16. Installed as total depth. | <u>10</u> ft | | | |
| 17. Measured total depth of well. | <u>10</u> ft | | | |

General Condition

| | | | | |
|--|-------------------------------------|-------------------------------------|--------------------------|--|
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Slope away from casing? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not deteriorated? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not heaved or below surrounding grade? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 20. No surface seal settling? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Comments: DTN: 48834

* Major well repair are those that require a subcontractor or separate mobilization to complete

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| Site | HENNEPIN | | | Major wells repairs* required to maintain well integrity? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> NA |
| Inspection Date | 8/12/23 @ 0830 | | | | | | |
| Well Number | HEN-22 & D | | | | | | |
| Stick-up Monitoring Wells | | | | | | | |
| 1. Outer protective casing | Not corroded | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | NA | | | |
| | Not dented | | | | | | |
| | Not cracked | | | | | | |
| | Not loose | | | | | | |
| 2. Inner casing | Not corroded | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | NA | | | |
| | Not dented | | | | | | |
| | Not cracked | | | | | | |
| | Not loose | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | NA | | | |
| 3. Are there weep holes in outer casing? | | | | | | | |
| 4. Weep holes able to drain? | | | | | | | |
| 5. Is there a lockable cap present? | | | | | | | |
| 6. Is there a lock present? | | | | | | | |
| 7. Bumper posts in good condition? | | | | | | | |
| Flushmount Monitoring Wells | | | | | | | |
| 8. Can the lid be secured tightly? | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | NA | | | |
| 9. Does the lid have a gasket that seals? | | | | | | | |
| 10. No water in the flushmount? | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | |
| 12. Is there a lock present? | | | | | | | |
| All Monitoring Wells | | | | | | | |
| Downhole Condition | | | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | NA | |
| 12. Water level measuring point clearly marked? | | | | | | | |
| 13. No obstructions in well? | | | | | | | |
| 14. No plant roots or vegetation in well? | | | | | | | |
| 15. No sediment in bottom of well? | | | | | | | |
| If present, how much sediment? | | | | | | | |
| 16. Installed as total depth. | | | | | | | |
| 17. Measured total depth of well. | | | | | | | |
| General Condition | | | | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | NA | |
| 18. Concrete pad installed? | | | | | | | |
| 19. Concrete pad | | | | | | | |
| Slope away from casing? | | | | | | | |
| Not deteriorated? | | | | | | | |
| Not heaved or below surrounding grade? | | | | | | | |
| 20. No surface seal settling? | | | | | | | |
| 21. Well clearly visible and labeled? | | | | | | | |
| Comments: | | | | | | | |
| DTN: on app | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |

| PROJECT INFORMATION | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|-----------------|-----------------|--|----------------------|--|---------------------------|---------------|----------------|
| Site: Hennepin, IL | | | | Client: Ramboll | | | | | | | |
| Project Number: | | | Task #: | | | Start Date: 8/22/23 | | | Time: 0800 | | |
| Field Personnel: Allison Beckwith | | | | Finish Date: | | | | Time: 1015 | | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | |
| Well ID: HEN-22D | | | | | | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): | | | | | |
| Casing ID: 2 inches | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | ±10% Temp. (°C) | ±0.1 pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | ±5% or ±1 Turbidity (NTU) | ±1.0 ORP (mV) | Visual Clarity |
| | 0819 | | | | 19.1 | 7.56 | 0.712 | 3.04 | 3.87 | -12.6 | Clear |
| | 0824 | | | | 17.9 | 7.35 | 0.722 | 1.66 | 6.12 | -68.0 | |
| | 0829 | | | | 17.8 | 7.29 | 0.728 | 1.07 | 10.02 | -66.0 | |
| | 0834 | | | | 17.7 | 7.29 | 0.729 | 0.85 | 10.3 | -72.0 | |
| | 0839 | 2.0 | | | 18.2 | 7.29 | 0.730 | 0.84 | 42.11 | -75.7 | |
| | 0844 | | | | 18.6 | 7.30 | 0.730 | 0.87 | 12.9 | -79.6 | |
| 30 | 0849 | | | | 19.0 | 7.30 | 0.731 | 0.85 | 21.43 | -81.7 | |
| 40 | 0854 | | | | 18.0 | 7.30 | 0.729 | 0.65 | 27.6 | -84.1 | |
| 45 | 0859 | | | | 17.7 | 7.30 | 0.731 | 0.83 | 26.2 | -83.0 | |
| | 0904 | 3.5 | | | 18.0 | 7.30 | 0.731 | 0.91 | 24.8 | -82.1 | |
| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | |
| Samples taken @ 0910 Ferrrous iron: Under range @ 0920 | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius | | | |
| | | | | | | | | | | | |

P 1 of 1

Site HENNEPIN, IL Major wells repairs* required Yes No NA
 Inspection Date 8/22/23 @ 1200 to maintain well integrity?
 Well Number HEN-23

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|----------------------------|--------------------------|-------------------------------------|--------------------------|----------|
| 1. Outer protective casing | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |

| | Yes | No | NA | Comments |
|--|-------------------------------------|-------------------------------------|--------------------------|----------|
| 2. Inner casing | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Weep holes able to drain? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5. Is there a lockable cap present? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6. Is there a lock present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 7. Bumper posts in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Flushmount Monitoring Wells

| | Yes | No | NA | Comments |
|---|--------------------------|--------------------------|-------------------------------------|----------|
| 8. Can the lid be secured tightly? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 9. Does the lid have a gasket that seals? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 10. No water in the flushmount? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 11. Is the well cap lockable? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 12. Is there a lock present? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

All Monitoring Wells

| | Yes | No | NA | Comments |
|---|-------------------------------------|-------------------------------------|--------------------------|----------|
| 12. Water level measuring point clearly marked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 13. No obstructions in well? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 14. No plant roots or vegetation in well? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 15. No sediment in bottom of well? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| If present, how much sediment? | <u>—</u> ft | | | |
| 16. Installed as total depth. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 17. Measured total depth of well. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

General Condition

| | Yes | No | NA | Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|----------|
| 18. Concrete pad installed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 19. Concrete pad | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Slope away from casing? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Not deteriorated? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Not heaved or below surrounding grade? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 20. No surface seal settling? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Comments: DTW: in app

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|---|-----------------|--|-----------------------|--|-------------|----------------------------|----------------------|---|-------------------|---------------|----------------|---|--|--|--|
| Site: <u>Hennepin, IL</u> | | | | Client: <u>Ramboll</u> | | | | | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | | Start Date: <u>8/22/23</u> | | | Time: <u>1040</u> | | | | | | |
| Field Personnel: <u>Allison Beckwith</u> | | | | Finish Date: _____ | | | | Time: <u>1210</u> | | | | | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | | | | | |
| Well ID: <u>HEC-23</u> | | <input type="checkbox"/> Well Development | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | | | | |
| Casing ID: <u>2</u> inches | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| | <u>1041</u> | | | | <u>15.8</u> | <u>7.39</u> | <u>0.836</u> | <u>2.91</u> | <u>3.61</u> | <u>-94.6</u> | <u>clear</u> | | | | |
| | <u>1040</u> | | | | <u>15.7</u> | <u>7.40</u> | <u>0.836</u> | <u>1.32</u> | <u>3.75</u> | <u>-113.9</u> | | | | | |
| | <u>1051</u> | | | | <u>15.4</u> | <u>7.42</u> | <u>0.838</u> | <u>0.49</u> | <u>3.79</u> | <u>-129.0</u> | | | | | |
| | <u>1050</u> | <u>1.5</u> | | | <u>15.5</u> | <u>7.37</u> | <u>0.837</u> | <u>0.35</u> | <u>3.80</u> | <u>-128.2</u> | | | | | |
| | <u>1101</u> | | | | <u>15.4</u> | <u>7.37</u> | <u>0.835</u> | <u>0.26</u> | <u>5.81</u> | <u>-128.7</u> | | | | | |
| | <u>1106</u> | | | | <u>15.2</u> | <u>7.39</u> | <u>0.835</u> | <u>0.21</u> | <u>6.69</u> | <u>-126.8</u> | | | | | |
| | <u>1111</u> | | | | <u>15.4</u> | <u>7.39</u> | <u>0.833</u> | <u>0.26</u> | <u>7.9</u> | <u>-125.8</u> | | | | | |
| | <u>1116</u> | <u>3.0</u> | | | <u>15.0</u> | <u>7.40</u> | <u>0.832</u> | <u>0.18</u> | <u>9.1</u> | <u>-124.3</u> | | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <p style="font-size: 1.2em;">Samples taken @ 1120</p> <p style="font-size: 1.2em;">Ferrous iron: Under range @ 1145</p> | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |
| | | | | | | | | | | | | | | | |

P 1 of 1

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|---|----------------|--|--|---|-------------------------------------|--------------------------|-----------------|
| Site | HENNEPIN #1 | | | Major wells repairs * required to maintain well integrity? | | | |
| Inspection Date | 8/22/23 @ 1308 | | | Yes | No | NA | |
| Well Number | HEN-21R | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Stick-up Monitoring Wells | | | | | | | |
| 1. Outer protective Casing | | | | Yes | No | NA | Comments |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | | | | <input checked="" type="checkbox"/> | | |
| 4. Weep holes able to drain? | | | | | | | |
| 5. Is there a lockable cap present? | | | | | | | |
| 6. Is there a lock present? | | | | | | | |
| 7. Bumper posts in good condition? | | | | | | | |
| Flushmount Monitoring Wells | | | | | | | |
| 8. Can the lid be secured tightly? | | | | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | | | | | |
| 10. No water in the flushmount? | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | |
| 12. Is there a lock present? | | | | | | | |
| All Monitoring Wells | | | | | | | |
| Downhole Condition | | | | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | | | | | |
| 13. No obstructions in well? | | | | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | | | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | | | | | | |
| If present, how much sediment? | | | | ft | | | |
| 16. Installed as total depth. | | | | ft | | | |
| 17. Measured total depth of well. | | | | ft | | | |
| General Condition | | | | | | | |
| 18. Concrete pad installed? | | | | Yes | No | NA | |
| 19. Concrete pad | | | | | <input checked="" type="checkbox"/> | | |
| Slope away from casing? | | | | | | | |
| Not deteriorated? | | | | | | | |
| Not heaved or below surrounding grade? | | | | | | | |
| 20. No surface seal settling? | | | | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | | | | | | | |
| Comments: | | | | | | | |
| | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |

| PROJECT INFORMATION | | | |
|---|------------------------|----------------------------|-------------------|
| Site: <u>Hennepin, IL</u> | Client: <u>Ramboll</u> | | |
| Project Number: _____ | Task #: _____ | Start Date: <u>8/22/23</u> | Time: <u>1300</u> |
| Field Personnel: <u>Allison Beckett</u> | | Finish Date: _____ | Time: <u>1430</u> |

| WELL INFORMATION | EVENT TYPE |
|----------------------------|--|
| Well ID: <u>HEN-21R</u> | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling |
| Casing ID: <u>2</u> inches | <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ |

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (Military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|----------------|-----------------------------|--------------------------|-----------------------|-----------------|-------------|-------------|----------------------|-------------------------|-----------------|---------------|-----------------|
| | 1311 <u>1311</u> | | | | <u>17.8</u> | <u>7.56</u> | <u>0.768</u> | <u>1.17</u> | <u>59.8</u> | <u>-129.4</u> | <u>Clear</u> |
| | 1310 <u>1310</u> | | | | <u>17.3</u> | <u>7.54</u> | <u>0.764</u> | <u>1.22</u> | <u>58.5</u> | <u>-139.8</u> | <u>✓</u> |
| | 1321 <u>1321</u> | | | | <u>17.2</u> | <u>7.54</u> | <u>0.705</u> | <u>1.06</u> | <u>41.69</u> | <u>-139.9</u> | <u>Brownish</u> |
| | 1320 <u>1320</u> | | | | <u>17.1</u> | <u>7.53</u> | <u>0.768</u> | <u>1.16</u> | <u>33.94</u> | <u>-136.1</u> | |
| | 1331 <u>1331</u> | <u>2.5</u> | | | <u>17.9</u> | <u>7.52</u> | <u>0.765</u> | <u>0.95</u> | <u>34.3</u> | <u>-137.2</u> | |
| | 1330 <u>1330</u> | | | | <u>17.1</u> | <u>7.53</u> | <u>0.763</u> | <u>0.330</u> | <u>32.3</u> | <u>-134.9</u> | |
| | 1341 <u>1341</u> | <u>3.0</u> | | | <u>16.6</u> | <u>7.51</u> | <u>0.762</u> | <u>0.21</u> | <u>34.8</u> | <u>-136.3</u> | |
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| NOTES (continued) | ABBREVIATIONS |
|--|---|
| <p style="font-size: 1.2em;">Samples taken @ 1345</p> <p style="font-size: 1.2em;">ferrous iron: 0.916 ppm</p> | <p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius</p> |

P 1 of 1

| | | | |
|------------------------|--|------------|-----------|
| Site | HENNEPIN PL | | |
| Inspection Date | 8/22/23 @ 1:15 | | |
| Well Number | HEN-51 | | |
| | Major wells repairs* required to maintain well integrity? | Yes | No |
| | | | X |
| | | | NA |

Stick-up Monitoring Wells

| | Yes | No | NA | |
|----------------------------|-----|----|----|-----------------|
| 1. Outer protective Casing | Yes | No | NA | Comments |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |

| | | | | |
|-----------------|-----|----|----|--|
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | Yes | No | NA | |

| | | | | |
|--|--|--|---|--|
| 3. Are there weep holes in outer casing? | | | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | | | X | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

Flushmount Monitoring Wells

| | | | | |
|---|-----|----|----|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | X | |
| 11. Is the well cap lockable? | | | X | |
| 12. Is there a lock present? | | | X | |

All Monitoring Wells

| | | | | |
|---|------|----|----|--|
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | — ft | | | |
| 17. Measured total depth of well. | — ft | | | |

General Condition

| | | | | |
|--|-----|----|----|--|
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | X | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|--|----------------------------|-------------|----------------------|---|-----------------|---------------|----------------|
| Site: <u>Hennepin, IL</u> | | | | Client: <u>Ramboll</u> | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | Start Date: <u>8/22/23</u> | | | Time: <u>1500</u> | | | |
| Field Personnel: <u>Allison Beckert</u> | | | | Finish Date: _____ | | | | Time: _____ | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>HEN-51</u> | | | | <input type="checkbox"/> Well Development | | | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: <u>2</u> inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| | <u>1506</u> | | | | <u>18.9</u> | <u>7.45</u> | <u>0.725</u> | <u>5.56</u> | <u>10.51</u> | <u>21.3</u> | <u>Clear</u> |
| | <u>1511</u> | | | | <u>17.3</u> | <u>7.30</u> | <u>0.734</u> | <u>2.38</u> | <u>12.19</u> | <u>-88.3</u> | |
| | <u>1516</u> | | | | <u>16.8</u> | <u>7.32</u> | <u>0.736</u> | <u>1.26</u> | <u>11.17</u> | <u>-105.3</u> | |
| | <u>1521</u> | <u>1.0</u> | | | <u>17.1</u> | <u>7.34</u> | <u>0.737</u> | <u>0.92</u> | <u>31.84</u> | <u>-115.5</u> | |
| | <u>1526</u> | | | | <u>17.1</u> | <u>7.35</u> | <u>0.735</u> | <u>0.73</u> | <u>88.21</u> | <u>-122.1</u> | |
| | <u>1531</u> | | | | <u>16.6</u> | <u>7.35</u> | <u>0.737</u> | <u>0.68</u> | <u>200.2</u> | <u>-124.5</u> | |
| | <u>1536</u> | <u>2.0</u> | | | <u>17.3</u> | <u>7.36</u> | <u>0.738</u> | <u>0.38</u> | <u>22.5</u> | <u>-126.7</u> | |
| | <u>1541</u> | | | | <u>17.2</u> | <u>7.37</u> | <u>0.734</u> | <u>0.33</u> | <u>24.2</u> | <u>-127.4</u> | |
| | <u>1546</u> | | | | <u>17.1</u> | <u>7.37</u> | <u>0.733</u> | <u>0.30</u> | <u>25.7</u> | <u>-127.7</u> | |
| | <u>1551</u> | <u>3.0</u> | | | <u>17.3</u> | <u>7.37</u> | <u>0.730</u> | <u>0.27</u> | <u>26.2</u> | <u>-128.6</u> | |
| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | |
| <p><u>Samples taken @ 1556</u></p> <p><u>Ferrous iron: 1.744 ppm @ 1618</u></p> | | | | | | | | Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | |
| | | | | | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |

P 1 of 1

| | | | | | | | | | |
|---|----------------|------|--|-----------------|----|----|--|--|--|
| Site | HENNEPIN, IL | | Major wells repairs* required to maintain well integrity? | Yes | No | NA | | | |
| Inspection Date | 9/21/23 @ 1530 | | | | X | | | | |
| Well Number | HFC-22 | | | | | | | | |
| Stick-up Monitoring Wells | | | | | | | | | |
| 1. Outer protective casing | Yes | No | NA | Comments | | | | | |
| Not corroded | | X | X | | | | | | |
| Not dented | | | | | | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | | | | | | |
| 2. Inner casing | Yes | No | NA | | | | | | |
| Not corroded | | X | | | | | | | |
| Not dented | | | | | | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | | | | | | |
| 3. Are there weep holes in outer casing? | | | | | | | | | |
| 4. Weep holes able to drain? | | | | | | | | | |
| 5. Is there a lockable cap present? | | | X | | | | | | |
| 6. Is there a lock present? | | | | | | | | | |
| 7. Bumper posts in good condition? | | | | | | | | | |
| 8. Can the lid be secured tightly? | | | | | | | | | |
| 9. Does the lid have a gasket that seals? | | | X | | | | | | |
| 10. No water in the flushmount? | | | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | | | |
| 12. Is there a lock present? | | | | | | | | | |
| Flushmount Monitoring Wells | | | | | | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | | | | | | |
| 9. Does the lid have a gasket that seals? | | | X | | | | | | |
| 10. No water in the flushmount? | | | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | | | |
| 12. Is there a lock present? | | | | | | | | | |
| All Monitoring Wells | | | | | | | | | |
| Downhole Condition | | | | | | | | | |
| 12. Water level measuring point clearly marked? | Yes | No | NA | | | | | | |
| 13. No obstructions in well? | | X | X | | | | | | |
| 14. No plant roots or vegetation in well? | | | | | | | | | |
| 15. No sediment in bottom of well? | | | | | | | | | |
| If present, how much sediment? | — ft | — ft | — ft | on pump | | | | | |
| 16. Installed as total depth. | — ft | | | | | | | | |
| 17. Measured total depth of well. | — ft | | | | | | | | |
| General Condition | | | | | | | | | |
| 18. Concrete pad installed? | Yes | No | NA | | | | | | |
| 19. Concrete pad slope away from casing? | | X | | | | | | | |
| Not deteriorated? | | | X | | | | | | |
| Not heaved or below surrounding grade? | | | X | | | | | | |
| 20. No surface seal settling? | | | | | | | | | |
| 21. Well clearly visible and labeled? | X | | | | | | | | |
| Comments: | | | | | | | | | |
| DTM=on app | | | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | |

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--|-------------|-----------------------------|----------------------|---|-----------------|--------------------|----------------|
| Site: <u>Hennepin, IL</u> | | | | | | Client: <u>Ramboll</u> | | | | | |
| Project Number: _____ | | | | Task #: _____ | | Start Date: <u>8/25/23</u> | | | | Time: <u>08:15</u> | |
| Field Personnel: <u>Alison Beckett</u> | | | | Finish Date: _____ | | Finish Date: <u>8/25/23</u> | | | | Time: <u>09:20</u> | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>HEN-22</u> | | | | <input type="checkbox"/> Well Development | | | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: <u>2</u> inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| | <u>0841</u> | | | | <u>16.2</u> | <u>7.08</u> | <u>0.456</u> | <u>1.47</u> | <u>4.00</u> | <u>113.9</u> | <u>Clear</u> |
| | <u>0820</u> | | | | <u>16.1</u> | <u>7.68</u> | <u>0.653</u> | <u>0.27</u> | <u>4.10</u> | <u>92.6</u> | |
| | <u>0837</u> | <u>2.5</u> | | | <u>16.1</u> | <u>7.69</u> | <u>0.453</u> | <u>0.18</u> | <u>4.14</u> | <u>87.2</u> | |
| | <u>0836</u> | | | | <u>16.1</u> | <u>7.68</u> | <u>0.653</u> | <u>0.14</u> | <u>4.20</u> | <u>79.8</u> | |
| | <u>0847</u> | <u>5</u> | | | <u>16.1</u> | <u>7.68</u> | <u>0.653</u> | <u>0.13</u> | <u>4.24</u> | <u>77.6</u> | |
| | <u>0846</u> | <u>5.5</u> | | | <u>16.1</u> | <u>7.07</u> | <u>0.453</u> | <u>0.12</u> | <u>4.31</u> | <u>77.8</u> | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | |
| <p><u>Samples taken @ 0850</u></p> <p><u>Ferrous iron sample @ 0920: under range</u></p> | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | |
| | | | | | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius | | | |



| | | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-----------------|
| Site | | | | |
| Inspection Date <u>11/22/23</u> | | | | |
| Well Number <u>HV32</u> | | | | |
| Stick-up Monitoring Wells | | | | |
| 1. Outer protective Casing | Yes | No | NA | Comments |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | | <input checked="" type="checkbox"/> | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | | <input checked="" type="checkbox"/> | |
| 4. Weep holes able to drain? | | <input checked="" type="checkbox"/> | | |
| 5. Is there a lockable cap present? | | <input checked="" type="checkbox"/> | | |
| 6. Is there a lock present? | | <input checked="" type="checkbox"/> | | |
| 7. Bumper posts in good condition? | | <input checked="" type="checkbox"/> | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | Yes | | | |
| 10. No water in the flushmount? | Yes | | | |
| 11. Is the well cap lockable? | Yes | | | |
| 12. Is there a lock present? | Yes | | | |
| All Monitoring Wells | | | | |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | Yes | No | NA | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | <input checked="" type="checkbox"/> | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| General Condition | | | | |
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | <input checked="" type="checkbox"/> | | |
| Not heaved or below surrounding grade? | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal settling? | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | | <input checked="" type="checkbox"/> | | |
| Comments: | | | | |
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* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--------------------|------------|--|----------------------|---|-------------------------|----------|----------------|---|--|--|--|
| Site: <u>HENNEPIN</u> | | | | | | Client: <u>1035</u> | | | | | | | | | |
| Project Number: <u>2023 0711</u> | | | | Task #: _____ | | | | Start Date: <u>8/22/23</u> | | | | Time: <u>10:22</u> | | | |
| Field Personnel: <u>C. TREMBLAY</u> | | | | Finish Date: _____ | | | | Time: <u>11:35</u> | | | | | | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | | | | | |
| Well ID: <u>HEN-32</u> | | | | | | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | |
| Casing ID: _____ inches | | | | | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | 10% K10 Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| PRE | 1040 | 1 | | | 37 | 7.1 | 37 | 10% | 41.69 | +10 | CLEAR | | | | |
| SAMPLE | 1048 | | | | 14.0 | 7.10 | 0.718 | 0.45 | 41.69 | 173.6 | | | | | |
| | 1053 | | | | 13.9 | 7.11 | 0.716 | 0.21 | 20.60 | 165.2 | | | | | |
| | 1058 | | | | 13.8 | 7.10 | 0.715 | 0.12 | 13.02 | 160.1 | | | | | |
| | 1103 | 3 | | | 13.8 | 7.10 | 0.715 | 0.09 | 8.77 | 156.9 | | | | | |
| | 1108 | | | | 13.8 | 7.10 | 0.716 | 0.09 | 7.30 | 153.9 | | | | | |
| | 1113 | 3.25 | | | 13.8 | 7.07 | 0.715 | 0.08 | 5.33 | 151.7 | | | | | |
| | 1118 | | | | | | | | | | | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <p>SAMPLE @ 1115</p> <p>FI UNDERWAY</p> | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |
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| Site | Hennepin | | | Major wells repairs* required to maintain well integrity? | | Yes | No | NA | |
| Inspection Date | 8/22/23 | | | | | | | | |
| Well Number | 33 @ 1018 | | | | | | | | |
| Stick-up Monitoring Wells | | | | Comments | | | | | |
| 1. Outer protective casing | | | | Yes | No | NA | | | |
| Not corroded | | | | | X | | ↓ | | |
| Not dented | | | | | | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | | | |
| Not corroded | | | | | X | | ↓ | | |
| Not dented | | | | | | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | Yes | No | NA | | | |
| 3. Are there weep holes in outer casing? | | | | | | | | | |
| 4. Weep holes able to drain? | | | | | | | | | |
| 5. Is there a lockable cap present? | | | | X | | | | | |
| 6. Is there a lock present? | | | | X | X | | | | |
| 7. Bumper posts in good condition? | | | | X | X | X | | | |
| Flushmount Monitoring Wells | | | | | | | | | |
| 8. Can the lid be secured tightly? | | | | Yes | No | NA | | | |
| 9. Does the lid have a gasket that seals? | | | | | | | ↓ | | |
| 10. No water in the flushmount? | | | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | | | |
| 12. Is there a lock present? | | | | | | | | | |
| All Monitoring Wells | | | | | | | | | |
| Downhole Condition | | | | Yes | No | NA | | | |
| 12. Water level measuring point clearly marked? | | | | | X | X | | | |
| 13. No obstructions in well? | | | | | | | ↓ | | |
| 14. No plant roots or vegetation in well? | | | | | | | | | |
| 15. No sediment in bottom of well? | | | | | | | | | |
| If present, how much sediment? | | | | ft | | | | | |
| 16. Installed as total depth. | | | | ft | | | | | |
| 17. Measured total depth of well. | | | | ft | 36-12ft | | | | |
| General Condition | | | | | | | | | |
| 18. Concrete pad installed? | | | | Yes | No | NA | | | |
| 19. Concrete pad slope away from casing? | | | | | | X | ↓ | | |
| Not deteriorated? | | | | | | | | | |
| Not heaved or below surrounding grade? | | | | | | | | | |
| 20. No surface seal settling? | | | | | X | | | | |
| 21. Well clearly visible and labeled? | | | | | X | | | | |
| Comments: | | | | | | | | | |
| DTW 7.91 | | | | | | | | | |
| pump 22 well | | | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | |
| | | | | Overturn needs | | | | | |



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| Site | | | | Major wells repairs* required to maintain well integrity? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Inspection Date | 8/22/23 @ 1600 | | | | | | |
| Well Number | 3D | | | | | | |
| | Stick-up Monitoring Wells | | | Comments | | | |
| 1. Outer protective Casing | Yes | No | NA | ↓ | | | |
| Not corroded | | <input checked="" type="checkbox"/> | | | | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | | | |
| 2. Inner casing | Yes | No | NA | ↓ | | | |
| Not corroded | | <input checked="" type="checkbox"/> | | | | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | | | | |
| 4. Weep holes able to drain? | | | | | | | |
| 5. Is there a lockable cap present? | | | | | | | |
| 6. Is there a lock present? | | | | | | | |
| 7. Bumper posts in good condition? | | | | | | | |
| | Flushmount Monitoring Wells | | | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | / | | | |
| 9. Does the lid have a gasket that seals? | | | | | | | |
| 10. No water in the flushmount? | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | |
| 12. Is there a lock present? | | | | | | | |
| | All Monitoring Wells | | | | | | |
| Downhole Condition | Yes | No | NA | | | | |
| 12. Water level measuring point clearly marked? | | <input checked="" type="checkbox"/> | | | | | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | | | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | | | | |
| 15. No sediment in bottom of well? | | <input checked="" type="checkbox"/> | | | | | |
| If present, how much sediment? | ft | | | | | | |
| 16. Installed as total depth. | ft | | | | | | |
| 17. Measured total depth of well. | 18.6 ft | | | | | | |
| | General Condition | | | | | | |
| 18. Concrete pad installed? | Yes | No | NA | | | | |
| 19. Concrete pad | <input checked="" type="checkbox"/> | | | | | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | | | | |
| Not deteriorated? | | <input checked="" type="checkbox"/> | | | | | |
| Not heaved or below surrounding grade? | | <input checked="" type="checkbox"/> | | | | | |
| 20. No surface seal settling? | | <input checked="" type="checkbox"/> | | | | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | | | | |
| Comments: | P&G 4-85 HNS DMF | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |

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|---|---|-------------------------------------|----|-----------------|----|----|
| Site | Major wells repairs* required to maintain well integrity? | | | Yes | No | NA |
| Inspection Date | 21/2/2023 09:55 | | | | | |
| Well Number | 3P | | | | | |
| Stick-up Monitoring Wells | | | | | | |
| 1. Outer protective Casing | Yes | No | NA | Comments | | |
| Not corroded | <input checked="" type="checkbox"/> | | | | | |
| Not dented | | <input checked="" type="checkbox"/> | | | | |
| Not cracked | | <input checked="" type="checkbox"/> | | | | |
| Not loose | | <input checked="" type="checkbox"/> | | | | |
| Flushmount Monitoring Wells | | | | | | |
| 2. Inner casing | Yes | No | NA | Comments | | |
| Not corroded | | <input checked="" type="checkbox"/> | | | | |
| Not dented | | <input checked="" type="checkbox"/> | | | | |
| Not cracked | | <input checked="" type="checkbox"/> | | | | |
| Not loose | | <input checked="" type="checkbox"/> | | | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | | | |
| 4. Weep holes able to drain? | | <input checked="" type="checkbox"/> | | | | |
| 5. Is there a lockable cap present? | | <input checked="" type="checkbox"/> | | | | |
| 6. Is there a lock present? | | <input checked="" type="checkbox"/> | | | | |
| 7. Bumper posts in good condition? | | <input checked="" type="checkbox"/> | | | | |
| Flushmount Monitoring Wells | | | | | | |
| 8. Can the lid be secured tightly? | <input checked="" type="checkbox"/> | No | NA | Comments | | |
| 9. Does the lid have a gasket that seals? | | <input checked="" type="checkbox"/> | | | | |
| 10. No water in the flushmount? | | <input checked="" type="checkbox"/> | | | | |
| 11. Is the well cap lockable? | | <input checked="" type="checkbox"/> | | | | |
| 12. Is there a lock present? | | <input checked="" type="checkbox"/> | | | | |
| All Monitoring Wells | | | | | | |
| Downhole Condition | | | | | | |
| 12. Water level measuring point clearly marked? | Yes | No | NA | Comments | | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | | | |
| 15. No sediment in bottom of well? | | <input checked="" type="checkbox"/> | | | | |
| If present, how much sediment? | | <input checked="" type="checkbox"/> | | | | |
| 16. Installed as total depth. | | <input checked="" type="checkbox"/> | | | | |
| 17. Measured total depth of well. | | <input checked="" type="checkbox"/> | | | | |
| | | <input checked="" type="checkbox"/> | | | | |
| | | <input checked="" type="checkbox"/> | | | | |
| | | <input checked="" type="checkbox"/> | | | | |
| General Condition | | | | | | |
| 18. Concrete pad installed? | Yes | No | NA | Comments | | |
| 19. Concrete pad | | <input checked="" type="checkbox"/> | | | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | | | |
| Not deteriorated? | | <input checked="" type="checkbox"/> | | | | |
| Not heaved or below surrounding grade? | | <input checked="" type="checkbox"/> | | | | |
| 20. No surface seal settling? | | <input checked="" type="checkbox"/> | | | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | | | |
| Comments: | | | | | | |
| DTW 4.85 | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | |

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| Site | HENNPPW | | | Major wells repairs * required to maintain well integrity? | | | |
| Inspection Date | 8/22 | 0945 | | | | | |
| Well Number | HEN25 | | | | | | |
| Stick-up Monitoring Wells | | | | Comments | | | |
| 1. Outer protective Casing | | | | Yes | No | NA | |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | | | |
| 3. Are there weep holes in outer casing? | | | | Yes | No | NA | |
| 4. Weep holes able to drain? | | | | | <input checked="" type="checkbox"/> | | |
| 5. Is there a lockable cap present? | | | | | <input checked="" type="checkbox"/> | NA | |
| 6. Is there a lock present? | | | | | <input checked="" type="checkbox"/> | | |
| 7. Bumper posts in good condition? | | | | | <input checked="" type="checkbox"/> | | |
| Flushmount Monitoring Wells | | | | Yes | No | NA | |
| 8. Can the lid be secured tightly? | | | | Yes | | | |
| 9. Does the lid have a gasket that seals? | | | | No | | | |
| 10. No water in the flushmount? | | | | Yes | | | |
| 11. Is the well cap lockable? | | | | No | | | |
| 12. Is there a lock present? | | | | Yes | | | |
| All Monitoring Wells | | | | Yes | No | NA | |
| Downhole Condition | | | | | | <input checked="" type="checkbox"/> | |
| 12. Water level measuring point clearly marked? | | | | | <input checked="" type="checkbox"/> | | |
| 13. No obstructions in well? | | | | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | | | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | | | | <input checked="" type="checkbox"/> | | |
| If present, how much sediment? | | | | ft | | | |
| 16. Installed as total depth. | | | | ft | | | |
| 17. Measured total depth of well. | | | | ft | 15.71 ft | | w/o pump 25.21 |
| General Condition | | | | Yes | No | NA | |
| 18. Concrete pad installed? | | | | <input checked="" type="checkbox"/> | | | |
| 19. Concrete pad | | | | | | | |
| Slope away from casing? | | | | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | | | | <input checked="" type="checkbox"/> | | |
| Not heaved or below surrounding grade? | | | | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal setting? | | | | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | | | | <input checked="" type="checkbox"/> | | | |
| Comments: | | | | | | | |
| Well HAS PUMP * Water SFT UP TO SURFACE NOTICED BRASS | | | | | | | |
| DTW 14.02 FATTING AND CRACK | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |
| DTW w/10 PUMP 135 | | | | | | | |

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--------------------|------------|---|----------------------|---|------------------|-------------------|----------------|
| Site: _____ | | | | Client: _____ | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: <u>8/22/23</u> | | Time: <u>1335</u> | |
| Field Personnel: <u>C. Treanby</u> | | | | Finish Date: _____ | | | | Time: <u>1435</u> | | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | |
| Well ID: <u>25</u> | | | | | | <input type="checkbox"/> Well Development | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: _____ inches | | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| PRA | 1342 | | 13.3' | | | | | | | | Cloudy |
| PURGE | 1348 | 0.25 | 13.51 | | | | | | 65.57 | | CLEAR |
| SAMPLE | 1350 | | 13.51 | 0 | 17.0 | 7.25 | 0.519 | 1.52 | 65.57 | 171.1 | |
| | 1355 | | | | 16.6 | 7.25 | 0.519 | 1.46 | 42.11 | 171.7 | |
| | 1400 | | | | 16.6 | 7.24 | 0.517 | 1.46 | 26.88 | 172.4 | |
| | 1405 | | 13.51 | 0 | 16.6 | 7.24 | 0.516 | 1.48 | 17.97 | 173.8 | |
| | 1410 | | | | 16.8 | 7.23 | 0.516 | 1.51 | 13.11 | 174.6 | |
| | 1415 | 3 | | | 16.6 | 7.23 | 0.516 | 1.52 | 9.47 | 175.2 | |
| | 1420 | | | | 16.5 | 7.22 | 0.514 | 1.56 | 8.29 | 175.9 | |
| | 1425 | 4 | 13.51 | 0 | 16.6 | 7.22 | 0.514 | 1.59 | 6.43 | 176.5 | |
| | 1430 | | | | | | | | | | |
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| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| * @ GEOTECH PUMP FL - UNDERWAY SAMPLE @ 1430 | | | | | | Cond. - Actual Conductivity FT BTOC - Feel Below Top of Casing na - Not Applicable nm - Not Measured | | | | | |
| | | | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius | | | | | |



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| Site | HENNEPIN | | | Major wells repairs * required to maintain well integrity? | | | | |
| Inspection Date | 9/22/23 | 0940 | | | | | | |
| Well Number | HEN 26 | | | | | | | |

| | Yes | No | NA | Comments | | | | | |
|---|--------------------------------|------|----|-----------------|--|--|--|--|--|
| Stick-up Monitoring Wells | | | | | | | | | |
| 1. Outer protective Casing | | | | | | | | | |
| Not corroded | | X | | | | | | | |
| Not dented | | | | | | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | | | | | | |
| 2. Inner casing | | | | | | | | | |
| Not corroded | Yes | No | NA | | | | | | |
| Not dented | | X | | | | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | | | | | | |
| 3. Are there weep holes in outer casing? | | | | | | | | | |
| 4. Weep holes able to drain? | | | | | | | | | |
| 5. Is there a lockable cap present? | | X | | | | | | | |
| 6. Is there a lock present? | | | X | | | | | | |
| 7. Bumper posts in good condition? | | X | | | | | | | |
| Flushmount Monitoring Wells | | | | | | | | | |
| 8. Can the lid be secured tightly? | Yes No NA | | | | | | | | |
| 9. Does the lid have a gasket that seals? | Yes No NA | | | | | | | | |
| 10. No water in the flushmount? | Yes No NA | | | | | | | | |
| 11. Is the well cap lockable? | Yes No NA | | | | | | | | |
| 12. Is there a lock present? | Yes No NA | | | | | | | | |
| All Monitoring Wells | | | | | | | | | |
| Downhole Condition | | | | | | | | | |
| 12. Water level measuring point clearly marked? | Yes | No | NA | | | | | | |
| 13. No obstructions in well? | | X | | | | | | | |
| 14. No plant roots or vegetation in well? | | X | | | | | | | |
| 15. No sediment in bottom of well? | | X | | | | | | | |
| If present, how much sediment? | ft | | | | | | | | |
| 16. Installed as total depth. | ft | | | | | | | | |
| 17. Measured total depth of well. | ft | 29.1 | | | | | | | |
| General Condition | | | | | | | | | |
| 18. Concrete pad installed? | Yes | No | NA | | | | | | |
| 19. Concrete pad | X | | | | | | | | |
| Slope away from casing? | | X | | | | | | | |
| Not deteriorated? | | X | | | | | | | |
| Not heaved or below surrounding grade? | | X | | | | | | | |
| 20. No surface seal settling? | | | | | | | | | |
| 21. Well clearly visible and labeled? | X | | | | | | | | |
| Comments: | | | | | | | | | |
| WELL HAS PUMP | | | | | | | | | |
| DTW 13.26 | | | | | | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete



| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--|-------------|----------------------------|---|---|-------------------|--------------|----------------|
| Site: _____ | | | | Client: _____ | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | | Start Date: <u>8/22/23</u> | | | Time: <u>1455</u> | | |
| Field Personnel: <u>TREMBLAY</u> | | | | Finish Date: _____ | | | | Time: _____ | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>26</u> | | | | <input type="checkbox"/> Well Development | | | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: _____ inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mv) | Visual Clarity |
| <u>PURGE</u> | <u>1500</u> | <u>0.1</u> | <u>13.8</u> | | | | | | | | <u>CLEAR</u> |
| <u>SAMPLE</u> | <u>1506</u> | | <u>13.8</u> | | <u>17.3</u> | <u>7.09</u> | <u>0.784</u> | <u>0.51</u> | <u>2.31</u> | <u>186.1</u> | |
| | <u>1511</u> | | | | <u>17.2</u> | <u>7.09</u> | <u>0.784</u> | <u>0.18</u> | <u>2.37</u> | <u>183.6</u> | |
| | <u>1516</u> | <u>1.5</u> | | | <u>17.1</u> | <u>7.09</u> | <u>0.784</u> | <u>0.10</u> | <u>2.40</u> | <u>181.8</u> | |
| | <u>1521</u> | | | | <u>17.0</u> | <u>7.09</u> | <u>0.785</u> | <u>0.04</u> | <u>2.41</u> | <u>179.9</u> | |
| | <u>1526</u> | | | | <u>17.0</u> | <u>7.09</u> | <u>0.784</u> | <u>0.02</u> | <u>2.44</u> | <u>178.6</u> | |
| | <u>1531</u> | <u>3.0</u> | <u>13.9</u> | <u>-0.1</u> | <u>16.9</u> | <u>7.09</u> | <u>0.784</u> | <u>0.02</u> | <u>2.50</u> | <u>177.0</u> | |
| NOTES (continued) | | | | | | | ABBREVIATIONS | | | | |
| <p><u>F3 UNDERG</u> <u>SAMPLE @ 1535</u></p> | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | |
| | | | | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | | |

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|---|-----------------|--|--|--|----|------------|-----------|-----------|
| Site | HENNEPIN, IL | | | Major wells repairs* required to maintain well integrity? | | Yes | No | NA |
| Inspection Date | 8/23/23 @ 12:50 | | | | | | | |
| Well Number | HEN-42 | | | | | | | |
| Stick-up Monitoring Wells | | | | Comments | | | | |
| 1. Outer protective casing | | | | Yes | No | NA | | |
| Not corroded | | | | | X | | | |
| Not dented | | | | | | | | |
| Not cracked | | | | | | | | |
| Not loose | | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | | |
| Not corroded | | | | | X | | | |
| Not dented | | | | | | | | |
| Not cracked | | | | | | | | |
| Not loose | | | | Yes | No | NA | | |
| 3. Are there weep holes in outer casing? | | | | | | | | |
| 4. Weep holes able to drain? | | | | | X | | | |
| 5. Is there a lockable cap present? | | | | | | | | |
| 6. Is there a lock present? | | | | | | | | |
| 7. Bumper posts in good condition? | | | | | | | | |
| Flushmount Monitoring Wells | | | | Yes | No | NA | | |
| 8. Can the lid be secured tightly? | | | | | | | | |
| 9. Does the lid have a gasket that seals? | | | | | | | | |
| 10. No water in the flushmount? | | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | | |
| 12. Is there a lock present? | | | | | | | | |
| All Monitoring Wells | | | | Yes | No | NA | | |
| Downhole Condition | | | | | | | | |
| 12. Water level measuring point clearly marked? | | | | | | | | |
| 13. No obstructions in well? | | | | | | | | |
| 14. No plant roots or vegetation in well? | | | | | X | | | |
| 15. No sediment in bottom of well? | | | | | | | | |
| If present, how much sediment? | | | | | | | | |
| 16. Installed as total depth. | | | | — | ft | | | |
| 17. Measured total depth of well. | | | | — | ft | | | |
| General Condition | | | | Yes | No | NA | | |
| 18. Concrete pad installed? | | | | | X | | | |
| 19. Concrete pad | | | | | | | | |
| Slope away from casing? | | | | | | | | |
| Not deteriorated? | | | | | | | | |
| Not heaved or below surrounding grade? | | | | | | | | |
| 20. No surface seal settling? | | | | | | | | |
| 21. Well clearly visible and labeled? | | | | | X | | | |
| Comments: | | | | DTW: on app | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | |

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--|-------------|----------------------------|----------------------|--|-----------------|-------------------|----------------|---|--|--|--|
| Site: <u>Hennepin, IL</u> | | | | | | Client: _____ | | | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | Start Date: <u>8/23/23</u> | | | | Time: <u>1855</u> | | | | | |
| Field Personnel: <u>Allison Beckert</u> | | | | | | Finish Date: _____ | | | | Time: <u>1407</u> | | | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | | | | | |
| Well ID: <u>HEN-47</u> | | | | <input type="checkbox"/> Well Development | | | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | |
| Casing ID: <u>2</u> inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| | <u>1501</u> | | | | <u>22.9</u> | <u>7.96</u> | <u>0.404</u> | <u>6.05</u> | <u>3.85</u> | <u>113.7</u> | <u>clear</u> | | | | |
| | <u>1506</u> | | | | <u>21.6</u> | <u>7.03</u> | <u>0.640</u> | <u>2.36</u> | <u>3.18</u> | <u>148.2</u> | ↓ | | | | |
| | <u>1511</u> | <u>1.0</u> | | | <u>21.6</u> | <u>7.03</u> | <u>0.640</u> | <u>2.05</u> | <u>3.12</u> | <u>152.0</u> | | | | | |
| | <u>1514</u> | | | | <u>21.6</u> | <u>7.03</u> | <u>0.639</u> | <u>1.79</u> | <u>3.02</u> | <u>154.6</u> | | | | | |
| | <u>1521</u> | | | | <u>21.5</u> | <u>7.03</u> | <u>0.641</u> | <u>1.68</u> | <u>3.01</u> | <u>156.2</u> | | | | | |
| | <u>1526</u> | <u>2.5</u> | | | <u>21.5</u> | <u>7.04</u> | <u>0.639</u> | <u>1.52</u> | <u>3.20</u> | <u>155.3</u> | | | | | |
| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <p>Samples taken @ 1530</p> <p>Ferrous iron @ 1600 : Under range</p> | | | | | | | | Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |
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Site Hennepin #1 Major wells repairs* required

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

Inspection Date 8/13/23 @ 1105 to maintain well integrity?

| | | |
|-----|----|----|
| Yes | No | NA |
| | X | |

Well Number HEN-12

Stick-up Monitoring Wells

| | Yes | No | NA | |
|----------------------------|-----|----|----|-----------------|
| 1. Outer protective casing | Yes | No | NA | Comments |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |

| | | | | |
|--|-----|----|----|--|
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | X | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | | ↓ | | |
| 6. Is there a lock present? | | ↓ | | |
| 7. Bumper posts in good condition? | | ↓ | | |

Flushmount Monitoring Wells

| | | | | |
|---|-----|----|----|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | ↓ | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

| | Yes | No | NA | |
|---|-----|----|----|--|
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | X | X | |
| 13. No obstructions in well? | | | X | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | | ft | | |
| 16. Installed as total depth. | | ft | | |
| 17. Measured total depth of well. | | ft | | |

General Condition

| | | | | |
|--|-----|----|----|--|
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | | X | | |
| Slope away from casing? | | | X | |
| Not deteriorated? | | | X | |
| Not heaved or below surrounding grade? | | | ↓ | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | | X | | |

Comments:

DTW: Drapp

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|---|-----------------|--------------------------|------------------------|--------------------|-------------|---|----------------------|---|-----------------|-------------------|----------------|---|--|--|--|
| Site: <u>Hennepin IL</u> | | | Client: <u>Ramboll</u> | | | | | | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: <u>8/23/23</u> | | Time: <u>0930</u> | | | | | |
| Field Personnel: <u>Allison Belmont</u> | | | | Finish Date: _____ | | | | Time: <u>1040</u> | | | | | | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | | | | | |
| Well ID: <u>HEM-12</u> | | | | | | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | | |
| Casing ID: <u>2</u> inches | | | | | | <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| | | <u>1038</u> | | | <u>21.3</u> | <u>7.81</u> | <u>0.551</u> | <u>9.73</u> | <u>3.92</u> | <u>149.6</u> | <u>clear</u> | | | | |
| | | <u>1043</u> | | | <u>19.7</u> | <u>7.39</u> | <u>0.559</u> | <u>2.45</u> | <u>3.25</u> | <u>159.4</u> | | | | | |
| | | <u>1048</u> | <u>1.5</u> | | <u>19.6</u> | <u>7.35</u> | <u>0.559</u> | <u>2.01</u> | <u>3.10</u> | <u>157.1</u> | | | | | |
| | | <u>1053</u> | | | <u>19.6</u> | <u>7.33</u> | <u>0.559</u> | <u>1.94</u> | <u>3.10</u> | <u>155.7</u> | | | | | |
| | | <u>1058</u> | <u>2.5</u> | | <u>19.5</u> | <u>7.31</u> | <u>0.559</u> | <u>1.91</u> | <u>3.11</u> | <u>155.1</u> | | | | | |
| | | <u>1103</u> | | | <u>19.5</u> | <u>7.30</u> | <u>0.559</u> | <u>1.89</u> | <u>3.05</u> | <u>154.8</u> | | | | | |
| | | <u>1108</u> | <u>4.0</u> | | <u>19.5</u> | <u>7.30</u> | <u>0.558</u> | <u>1.88</u> | <u>3.0</u> | <u>154.1</u> | | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <p>Samples taken @ 1010</p> <p>Ferrous iron @ 1019: under range</p> | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |
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Site Hennepin #12 Major wells repairs * required

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

 Inspection Date 8/23/23 @ 8:15 to maintain well integrity?

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

 Well Number HEN-410

Stick-up Monitoring Wells

| | Yes | No | NA | |
|--|-----|----|----|-----------------|
| 1. Outer protective casing | Yes | No | NA | Comments |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | X | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | | X | | |
| 6. Is there a lock present? | | X | | |
| 7. Bumper posts in good condition? | | X | | |

Flushmount Monitoring Wells

| | | | | |
|---|-----|----|----|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | X | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

| | Yes | No | NA | |
|---|-----|----|----|--|
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | X | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | — | ft | | |
| 16. Installed as total depth. | — | ft | | |
| 17. Measured total depth of well. | — | ft | | |

General Condition

| | | | | |
|--|-----|----|----|--|
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | X | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: ON APP

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--|-------------|-------------|----------------------|---|-----------------|-------------------|----------------|---|--|--|--|
| Site: <u>HENNEPIN, IL</u> | | | | Client: <u>Ramboll</u> | | | | | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: <u>9/20/23</u> | | Time: <u>0910</u> | | | | | |
| Field Personnel: <u>Allison Beckert</u> | | | | Finish Date: <u>9/20/23</u> | | | | Time: <u>0930</u> | | | | | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | | | | | |
| Well ID: <u>HEN-46</u> | | | | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | | | | |
| Casing ID: <u>2</u> inches | | | | <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| | <u>0819</u> | | | | <u>20.9</u> | <u>7.40</u> | <u>0.559</u> | <u>3.37</u> | <u>6.50</u> | <u>127.4</u> | <u>clear</u> | | | | |
| | <u>0824</u> | | | | <u>20.8</u> | <u>7.35</u> | <u>0.5100</u> | <u>2.44</u> | <u>4.01</u> | <u>142.5</u> | <u>1</u> | | | | |
| | <u>0829</u> | | | | <u>20.8</u> | <u>7.35</u> | <u>0.5100</u> | <u>2.34</u> | <u>5.82</u> | <u>144.1</u> | <u>1</u> | | | | |
| | <u>0834</u> | <u>1.5</u> | | | <u>20.8</u> | <u>7.34</u> | <u>0.500</u> | <u>2.79</u> | <u>9.84</u> | <u>144.5</u> | <u>1</u> | | | | |
| | <u>0839</u> | | | | <u>20.8</u> | <u>7.34</u> | <u>0.558</u> | <u>2.00</u> | <u>14.58</u> | <u>144.3</u> | <u>1</u> | | | | |
| | <u>0844</u> | | | | <u>20.8</u> | <u>7.33</u> | <u>0.558</u> | <u>1.99</u> | <u>17.95</u> | <u>143.7</u> | <u>1</u> | | | | |
| <u>30</u> | <u>0849</u> | <u>3.0</u> | | | <u>20.8</u> | <u>7.33</u> | <u>0.559</u> | <u>1.91</u> | <u>18.25</u> | <u>143.2</u> | <u>1</u> | | | | |
| | | | | | <u>20.9</u> | <u>7.33</u> | <u>0.559</u> | <u>1.85</u> | <u>18.98</u> | <u>142.2</u> | <u>1</u> | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <u>samples taken @ 0855</u> <u>Ferrous iron: Under range @ 0910</u> | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |
| | | | | | | | | | | | | | | | |



Site Hennepin, IL Major wells repairs* required Yes No NA
 Inspection Date 8/23/23 @ 1330 to maintain well integrity? Yes No NA
 Well Number HEN-54

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|----------------------------|--------------------------|-------------------------------------|--------------------------|----------|
| 1. Outer protective casing | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |

| | | | | |
|-----------------|-----|-------------------------------------|----|--|
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | | <input checked="" type="checkbox"/> | | |

| | | | | |
|--|-------------------------------------|-------------------------------------|----|--|
| 3. Are there weep holes in outer casing? | | | | |
| 4. Weep holes able to drain? | | | | |
| 5. Is there a lockable cap present? | | | | |
| 6. Is there a lock present? | Yes | No | NA | |
| 7. Bumper posts in good condition? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |

Flushmount Monitoring Wells

| | | | | |
|---|-----|----|-------------------------------------|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | <input checked="" type="checkbox"/> | |
| 10. No water in the flushmount? | | | <input checked="" type="checkbox"/> | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

| | | | | |
|---|--|-------------------------------------|----|--|
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | <input checked="" type="checkbox"/> | | | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | <input checked="" type="checkbox"/> ft | | | |
| 16. Installed as total depth. | <input checked="" type="checkbox"/> ft | | | |
| 17. Measured total depth of well. | <input checked="" type="checkbox"/> ft | | | |

General Condition

| | | | | |
|--|-------------------------------------|-------------------------------------|----|--|
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad slope away from casing? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |

Comments: DTN: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | |
|---|------------------------|----------------------------|-------------------|
| Site: <u>Hennepin, IL</u> | Client: <u>Ramboll</u> | | |
| Project Number: _____ | Task #: _____ | Start Date: <u>8/23/23</u> | Time: <u>1300</u> |
| Field Personnel: <u>Allison Beckett</u> | | Finish Date: _____ | Time: <u>1455</u> |

| WELL INFORMATION | EVENT TYPE |
|----------------------------|--|
| Well ID: <u>HEN-54</u> | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling |
| Casing ID: <u>2</u> inches | <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ |

| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
|--|------------------|--------------------------|-----------------------|-----------------|-----------------|---------|----------------------|-------------------------|-----------------|------------------|----------------|
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| 0 | 13 14 | | | | 22.7 | 7.36 | 0.5105 | 0.10 | 5.99 | 113.9 | clear |
| | 13 19 | | | | 23.0 | 7.32 | 0.574 | 3.58 | 24.10 | 128.2 | |
| | 13 24 | 1.0 | | | 22.7 | 7.31 | 0.577 | 3.010 | 23.14 | 133.1 | |
| | 13 29 | | | | 22.4 | 7.31 | 0.576 | 2.71 | 19.6 | 131.4 | |
| | 13 34 | | | | 22.3 | 7.31 | 0.577 | 2.49 | 18.41 | 139.0 | |
| | 13 39 | | | | 22.4 | 7.30 | 0.577 | 2.40 | 14.50 | 140.2 | |
| 35 | 1344 | | | | 22.3 | 7.31 | 0.577 | 2.39 | 14.88 | 140.1 | |
| | 1349 | 2.5 | | | 22.6 | 7.30 | 0.576 | 2.31 | 13.82 | 141.0 | |
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| NOTES (continued) | ABBREVIATIONS |
|--|---|
| <p>samples taken @ 1350</p> <p>Ferrous iron sample @ 1450: 5.371</p> | <p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius</p> |

Site Hennepin IL Major wells repairs * required

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

 Inspection Date 9/23/23 @ 1110 to maintain well integrity?

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

 Well Number HEN-13

Stick-up Monitoring Wells

| | | | | |
|----------------------------|-------------------------------------|-------------------------------------|----|--|
| 1. Outer protective casing | Yes | No | NA | Comments <u>Oxidized & Rusty</u> |
| Not corroded | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | | <input checked="" type="checkbox"/> | | |

| | | | |
|-----------------|-----|-------------------------------------|----|
| 2. Inner casing | Yes | No | NA |
| Not corroded | | <input checked="" type="checkbox"/> | |
| Not dented | | <input checked="" type="checkbox"/> | |
| Not cracked | | <input checked="" type="checkbox"/> | |
| Not loose | | <input checked="" type="checkbox"/> | |

| | | | |
|--|-------------------------------------|--|-------------------------------------|
| 3. Are there weep holes in outer casing? | | | <input checked="" type="checkbox"/> |
| 4. Weep holes able to drain? | | | <input checked="" type="checkbox"/> |
| 5. Is there a lockable cap present? | | | |
| 6. Is there a lock present? | <input checked="" type="checkbox"/> | | |
| 7. Bumper posts in good condition? | <input checked="" type="checkbox"/> | | |

Flushmount Monitoring Wells

| | | | |
|---|-----|----|-------------------------------------|
| 8. Can the lid be secured tightly? | Yes | No | NA |
| 9. Does the lid have a gasket that seals? | | | <input checked="" type="checkbox"/> |
| 10. No water in the flushmount? | | | |
| 11. Is the well cap lockable? | | | <input checked="" type="checkbox"/> |
| 12. Is there a lock present? | | | |

All Monitoring Wells

| | | | |
|---|-----|-------------------------------------|-------------------------------------|
| Downhole Condition | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | <input checked="" type="checkbox"/> |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | — | ft | |
| 16. Installed as total depth. | — | ft | |
| 17. Measured total depth of well. | — | ft | |

General Condition

| | | | |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 18. Concrete pad installed? | Yes | No | NA |
| 19. Concrete pad | | <input checked="" type="checkbox"/> | |
| Slope away from casing? | | | <input checked="" type="checkbox"/> |
| Not deteriorated? | | | <input checked="" type="checkbox"/> |
| Not heaved or below surrounding grade? | | | <input checked="" type="checkbox"/> |
| 20. No surface seal settling? | | | <input checked="" type="checkbox"/> |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | |

Comments:

DRW - DR opp

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|------------------------|--|----------------------------|--|---|-------------------|--------------|----------------|---|--|--|--|
| Site: <u>Hennepin, IL</u> | | | | Client: <u>Ramboll</u> | | | | | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | | Start Date: <u>8/23/23</u> | | | Time: <u>1055</u> | | | | | | |
| Field Personnel: <u>Allison Belkett</u> | | | | Finish Date: _____ | | | | Time: <u>1255</u> | | | | | | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | | | | | |
| Well ID: <u>HEN-13</u> | | | | | <input type="checkbox"/> Well Development | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | |
| Casing ID: <u>2</u> inches | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| | <u>1057</u> | | | | <u>21.5</u> | <u>7.33</u> | <u>0.552</u> | <u>1.30</u> | <u>3.19</u> | <u>152.0</u> | <u>Clear</u> | | | | |
| | <u>1102</u> | | | | <u>21.0</u> | <u>7.37</u> | <u>0.502</u> | <u>3.07</u> | <u>3.18</u> | <u>152.7</u> | | | | | |
| | <u>1107</u> | <u>1.00</u> | | | <u>21.0</u> | <u>7.38</u> | <u>0.503</u> | <u>3.47</u> | <u>3.19</u> | <u>151.1</u> | | | | | |
| | <u>1112</u> | | | | <u>21.0</u> | <u>7.38</u> | <u>0.503</u> | <u>2.33</u> | <u>3.20</u> | <u>149.9</u> | | | | | |
| | <u>1117</u> | | | | <u>21.0</u> | <u>7.39</u> | <u>0.503</u> | <u>2.23</u> | <u>3.21</u> | <u>149.9</u> | | | | | |
| | <u>1122</u> | <u>2.0</u> | | | <u>21.4</u> | <u>7.39</u> | <u>0.503</u> | <u>2.10</u> | <u>3.05</u> | <u>150.2</u> | <u>↓</u> | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <p><u>samples taken @ 1125</u></p> <p><u>Ferrous iron @ 1145: under range</u></p> <p><u>dupe @ 1125</u></p> | | | | | | | | Cond. - Actual Conductivity FT BTOP - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |
| | | | | | | | | | | | | | | | |



Site _____ Major wells repairs* required _____ Yes No NA

Inspection Date 7/10/23 to maintain well integrity? _____ Yes No NA

Well Number 187

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|----------------------------|-----|-------------------------------------|----|----------|
| 1. Outer protective Casing | | <input checked="" type="checkbox"/> | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |

2. Inner casing

| | Yes | No | NA |
|--------------|-----|-------------------------------------|----|
| Not corroded | | <input checked="" type="checkbox"/> | |
| Not dented | | | |
| Not cracked | | | |
| Not loose | | | |

| | | | |
|--|--|-------------------------------------|-------------------------------------|
| 3. Are there weep holes in outer casing? | | | |
| 4. Weep holes able to drain? | | | |
| 5. Is there a lockable cap present? | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6. Is there a lock present? | | | |
| 7. Bumper posts in good condition? | | | |

Flushmount Monitoring Wells

| | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 8. Can the lid be secured tightly? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9. Does the lid have a gasket that seals? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10. No water in the flushmount? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11. Is the well cap lockable? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12. Is there a lock present? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

All Monitoring Wells

| | Yes | No | NA |
|---|-------------------------------------|-------------------------------------|----|
| 12. Water level measuring point clearly marked? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 13. No obstructions in well? | | | |
| 14. No plant roots or vegetation in well? | | | |
| 15. No sediment in bottom of well? | | | |
| If present, how much sediment? | ft | | |
| 16. Installed as total depth. | ft | | |
| 17. Measured total depth of well. | ft | | |

General Condition

| | | | | |
|--|-------------------------------------|-------------------------------------|--------------------------|--|
| 18. Concrete pad installed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 19. Concrete pad Slope away from casing? | | | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|----------------------------|-----------------|-------------|--|----------------------|---|--------------------|--------------|----------------|---|--|--|--|
| Site: _____ | | | Client: _____ | | | Project Number: <u>2023-074</u> | | | Task #: _____ | | | | | | |
| Field Personnel: <u>TRENBERG</u> | | | Start Date: <u>8/23/23</u> | | | Time: <u>1318</u> | | | Finish Date: _____ | | | | | | |
| Time: <u>1435</u> | | | | | | | | | | | | | | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | | | | | |
| Well ID: <u>14D</u> | | | | | | <input type="checkbox"/> Well Development <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | | |
| Casing ID: _____ inches | | | | | | <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| <u>PRE</u> | | | | | | | | | | | | | | | |
| <u>PURGE</u> | <u>1330</u> | <u>0.1</u> | | | | | | | | | <u>CLEAR</u> | | | | |
| | <u>1333</u> | | | | <u>21.3</u> | <u>7.22</u> | <u>0.692</u> | <u>2.84</u> | <u>15.81</u> | <u>169.2</u> | | | | | |
| | <u>1338</u> | | | | <u>21.3</u> | <u>7.17</u> | <u>0.688</u> | <u>0.78</u> | <u>6.81</u> | <u>79.1</u> | | | | | |
| | <u>1343</u> | <u>1.5</u> | | | <u>21.2</u> | <u>7.17</u> | <u>0.684</u> | <u>0.33</u> | <u>10.25</u> | <u>72.2</u> | | | | | |
| | <u>1348</u> | | | | <u>21.2</u> | <u>7.17</u> | <u>0.684</u> | <u>0.18</u> | <u>11.18</u> | <u>71.7</u> | | | | | |
| | <u>1353</u> | | | | <u>21.1</u> | <u>7.18</u> | <u>0.684</u> | <u>0.17</u> | <u>10.44</u> | <u>68.3</u> | | | | | |
| | <u>1358</u> | <u>2</u> | | | <u>21.2</u> | <u>7.18</u> | <u>0.685</u> | <u>0.17</u> | <u>10.26</u> | <u>68.2</u> | | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <p><u>SAMPLE @ 1405</u></p> <p><u>F1 - UNDER</u></p> | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius | | | |
| | | | | | | | | | | | | | | | |

- 1
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- 14

| | | | | | | | | |
|---|-----------------|--|--|--|----|------------|-------------------------------------|-----------|
| Site | HENNEPIN #1 | | | Major wells repairs* required to maintain well integrity? | | Yes | No | NA |
| Inspection Date | 8/21/23 @ 11:15 | | | | | | | |
| Well Number | HEN-05DP | | | | | | <input checked="" type="checkbox"/> | |
| Stick-up Monitoring Wells | | | | Comments | | | | |
| 1. Outer protective Casing | | | | Yes | No | NA | | |
| Not corroded | | | | | X | | | |
| Not dented | | | | | | | | |
| Not cracked | | | | | | | | |
| Not loose | | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | | |
| Not corroded | | | | | X | | | |
| Not dented | | | | | | | | |
| Not cracked | | | | | | | | |
| Not loose | | | | | | | | |
| 3. Are there weep holes in outer casing? | | | | | X | | | |
| 4. Weep holes able to drain? | | | | | | | | |
| 5. Is there a lockable cap present? | | | | | | | | |
| 6. Is there a lock present? | | | | | | | | |
| 7. Bumper posts in good condition? | | | | | X | | | |
| Flushmount Monitoring Wells | | | | Yes | No | NA | | |
| 8. Can the lid be secured tightly? | | | | | | | | |
| 9. Does the lid have a gasket that seals? | | | | | | | | |
| 10. No water in the flushmount? | | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | | |
| 12. Is there a lock present? | | | | | | | | |
| All Monitoring Wells | | | | Yes | No | NA | | |
| Downhole Condition | | | | Yes | No | NA | | |
| 12. Water level measuring point clearly marked? | | | | | | | | |
| 13. No obstructions in well? | | | | | X | | | |
| 14. No plant roots or vegetation in well? | | | | | X | | | |
| 15. No sediment in bottom of well? | | | | | | | | |
| If present, how much sediment? | | | | — ft | | | | |
| 16. Installed as total depth. | | | | ft | | | | |
| 17. Measured total depth of well. | | | | 108.0 ft | | | | |
| General Condition | | | | Yes | No | NA | | |
| 18. Concrete pad installed? | | | | X | | | | |
| 19. Concrete pad | | | | | | | | |
| Slope away from casing? | | | | | X | | | |
| Not deteriorated? | | | | | | | | |
| Not heaved or below surrounding grade? | | | | | | | | |
| 20. No surface seal settling? | | | | | X | | | |
| 21. Well clearly visible and labeled? | | | | X | | | | |
| Comments: | | | | DW 3879 PMP installed | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | |

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| PROJECT INFORMATION | | | | | | | | | | | |
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| Site: <u>HEWNEPIN</u> | | | Client: _____ | | | | | | | | |
| Project Number: <u>2023 0711</u> | | | Task #: _____ | | | Start Date: <u>8/23/23</u> | | | Time: <u>1155</u> | | |
| Field Personnel: <u>C. Tremblay</u> | | | Finish Date: _____ | | | Time: <u>1305</u> | | | Time: _____ | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | |
| Well ID: <u>OSDR</u> | | | | | | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | |
| Casing ID: _____ inches | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| PRE | 1155 | 0.75 | 38.73 | 0 | | | | | | | |
| PURGE | 1205 | 0.75 | 38.73 | 0 | | | | | | | CLEAR |
| | 1210 | 0.75 | 38.73 | 0 | 21.2 | 7.41 | 0.632 | 0.77 | 2.81 | 169.5 | |
| | 1215 | | 38.73 | 0 | 20.6 | 7.41 | 0.631 | 0.28 | 2.54 | 167.7 | |
| | 1220 | | 38.73 | 0 | 20.6 | 7.42 | 0.631 | 0.20 | 2.67 | 165.1 | |
| | 1225 | 1.25 | 38.73 | | 20.8 | 7.41 | 0.631 | 0.18 | 2.23 | 163.5 | |
| | 1230 | | 38.73 | | 20.8 | 7.41 | 0.631 | 0.16 | 2.35 | 161.7 | |
| | 1235 | | 38.73 | | 20.8 | 7.41 | 0.631 | 0.15 | 2.51 | 160.2 | |
| | 1240 | | 38.73 | | 20.8 | 7.41 | 0.631 | 0.15 | 2.12 | 158.8 | |
| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| <p>SAMPLE @ - 1145 FI - HANDPUMP</p> | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | | | |
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| Site | Hennepin #12 | | | Major wells repairs* required to maintain well integrity? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Inspection Date | 8/21/23 @ 1105 | | | | | | | |
| Well Number | HEN-05R | | | | | | | |
| Stick-up Monitoring Wells | | | | Comments | | | | |
| 1. Outer protective Casing | | | | Yes | No | NA | | |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | | |
| Not dented | | | | | | | | |
| Not cracked | | | | | | | | |
| Not loose | | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | | |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | | |
| Not dented | | | | | | | | |
| Not cracked | | | | | | | | |
| Not loose | | | | Yes | No | NA | | |
| 3. Are there weep holes in outer casing? | | | | | <input checked="" type="checkbox"/> | | | |
| 4. Weep holes able to drain? | | | | | | | | |
| 5. Is there a lockable cap present? | | | | | | | | |
| 6. Is there a lock present? | | | | | | | | |
| 7. Bumper posts in good condition? | | | | | | | | |
| Flushmount Monitoring Wells | | | | Yes | No | NA | | |
| 8. Can the lid be secured tightly? | | | | | | | | |
| 9. Does the lid have a gasket that seals? | | | | | | | | |
| 10. No water in the flushmount? | | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | | |
| 12. Is there a lock present? | | | | | | | | |
| All Monitoring Wells | | | | Yes | No | NA | | |
| 12. Water level measuring point clearly marked? | | | | | | | | |
| 13. No obstructions in well? | | | | | <input checked="" type="checkbox"/> | | | |
| 14. No plant roots or vegetation in well? | | | | | <input checked="" type="checkbox"/> | | | |
| 15. No sediment in bottom of well? | | | | | | | | |
| If present, how much sediment? | | | | | | | | |
| 16. Installed as total depth. | | | | | | | | |
| 17. Measured total depth of well. | | | | | | | | |
| | | | | ft | | | | |
| | | | | ft | | | | |
| | | | | 40.05 ft | | | | |
| General Condition | | | | Yes | No | NA | | |
| 18. Concrete pad installed? | | | | | <input checked="" type="checkbox"/> | | | |
| 19. Concrete pad | | | | | | | | |
| Slope away from casing? | | | | | <input checked="" type="checkbox"/> | | | |
| Not deteriorated? | | | | | | | | |
| Not heaved or below surrounding grade? | | | | | | | | |
| 20. No surface seal settling? | | | | | <input checked="" type="checkbox"/> | | | |
| 21. Well clearly visible and labeled? | | | | | <input checked="" type="checkbox"/> | | | |
| Comments: | | | | DTW:38.00 pmp installed | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | |

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|--|-----------------|--|-----------------------|--------------------|---|----------------------------|----------------------|------------------------------------|------------------|-------------------|----------------|---------------------------------------|--|--|--|
| Site: <u>Hennep2U</u> | | | | | | Client: _____ | | | | | | | | | |
| Project Number: <u>2023-0761</u> | | | | Task #: _____ | | Start Date: <u>8/23/23</u> | | | | Time: <u>1036</u> | | | | | |
| Field Personnel: <u>C. TREMBLY</u> | | | | Finish Date: _____ | | Time: <u>1150</u> | | | | Time: _____ | | | | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | | | | | |
| Well ID: <u>05R</u> | | <input type="checkbox"/> Well Development | | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | | | |
| Casing ID: _____ inches | | <input type="checkbox"/> Well Volume Approach Sampling | | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| PURGE | 1036 | | 38.69 | | | | | | | | | | | | |
| PURGE | 1042 | 0.1 | 38.69 | Q | | | 0.646 | 1.60 | 27.51 | 112.9 | CLEAR | | | | |
| SAMPLE | 1048 | 0.5 | 38.69 | Q | 20.6 | 7.61 | 0.646 | 1.60 | 27.51 | 112.9 | ↓ | | | | |
| | 1053 | | 38.69 | Q | 20.6 | 7.61 | 0.644 | 0.36 | 18.70 | 136.8 | | | | | |
| | 1058 | | 38.69 | Q | 20.5 | 7.61 | 0.643 | 0.23 | 12.41 | 141.0 | | | | | |
| | 1103 | 1.25 | 38.69 | Q | 20.8 | 7.61 | 0.643 | 0.19 | 8.77 | 142.8 | | | | | |
| | 1108 | | 38.69 | Q | 20.6 | 7.61 | 0.644 | 0.17 | 7.00 | 143.7 | | | | | |
| | 1113 | | 38.69 | Q | 20.8 | 7.61 | 0.643 | 0.15 | 5.15 | 144.0 | | | | | |
| | 1118 | 2.5 | 38.69 | Q | 20.6 | 7.61 | 0.645 | 0.14 | 4.41 | 144.2 | | | | | |
| | 1123 | | | | 20.3 | 7.62 | 0.644 | 0.14 | 3.55 | 144.2 | | | | | |
| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| SAMPLE@ - 1130 FI - 0.806 ppm | | | | | | | | Cond. - Actual Conductivity | | | | ORP - Oxidation-Reduction Potential | | | |
| | | | | | | | | FT BTOC - Feet Below Top of Casing | | | | SEC - Specific Electrical Conductance | | | |
| | | | | | | | | na - Not Applicable | | | | SU - Standard Units | | | |
| | | | | | | | | nm - Not Measured | | | | Temp - Temperature | | | |
| | | | | | | | | | | | | °C - Degrees Celsius | | | |

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| Site | HENNEPIN II | | | Major wells repairs* required to maintain well integrity? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> NA |
| Inspection Date | 8/21/23 @ 1055 | | | | | | |
| Well Number | HEN-48 | | | | | | |
| Stick-up Monitoring Wells | | | | Comments | | | |
| 1. Outer protective Casing | | | | Yes | No | NA | |
| Not corroded | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not dented | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | SPACE DEUT |
| Not cracked | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | WELL IS LOOSE |
| Not loose | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2. Inner casing | | | | Yes | No | NA | |
| Not corroded | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not dented | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not cracked | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | INNER CASE CRACKED |
| Not loose | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3. Are there weep holes in outer casing? | | | | Yes | No | NA | |
| 4. Weep holes able to drain? | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5. Is there a lockable cap present? | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6. Is there a lock present? | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 7. Bumper posts in good condition? | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Flushmount Monitoring Wells | | | | | | | |
| 8. Can the lid be secured tightly? | | | | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> NA | |
| 9. Does the lid have a gasket that seals? | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 10. No water in the flushmount? | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 11. Is the well cap lockable? | | | | Yes No NA | | | |
| 12. Is there a lock present? | | | | Yes No NA | | | |
| All Monitoring Wells | | | | | | | |
| Downhole Condition | | | | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 13. No obstructions in well? | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CRACKED WELLS |
| 14. No plant roots or vegetation in well? | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 15. No sediment in bottom of well? | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If present, how much sediment? | | | | ft | ft | ft | |
| 16. Installed as total depth. | | | | ft | ft | ft | |
| 17. Measured total depth of well. | | | | ft | ft | ft | |
| General Condition | | | | Yes | No | NA | |
| 18. Concrete pad installed? | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 19. Concrete pad Slope away from casing? | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Not deteriorated? | | | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Not heaved or below surrounding grade? | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 20. No surface seal settling? | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 21. Well clearly visible and labeled? | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Comments: | | | | LOOSE NOT TAKE WATER LEVEL READING DUE TO BLOCKAGE | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
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| Site: <u>HENNEP3U</u> | | | | Client: _____ | | | | | | | | | | | |
| Project Number: <u>2023 021</u> | | | | Task #: _____ | | | | Start Date: <u>8/23/23</u> | | Time: <u>0931</u> | | | | | |
| Field Personnel: <u>[Signature]</u> | | | | Finish Date: _____ | | | | Time: <u>1030</u> | | | | | | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | | | | | |
| Well ID: <u>48</u> | | | | | | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | |
| Casing ID: _____ inches | | | | | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| 0937 | | | | | | | | | | | | | | | |
| PURGE | 0937 | 0.11 | | | 20.9 | 7.63 | 0.601 | 1.93 | 5.23 | 163.4 | CLEAR | | | | |
| SAMPLE | 0943 | 0.75 | | | 20.9 | 7.63 | 0.601 | 1.93 | 5.23 | 163.4 | ↓ | | | | |
| | 0948 | | | | 20.8 | 7.62 | 0.590 | 0.50 | 4.37 | 160.2 | | | | | |
| | 0953 | | | | 20.7 | 7.62 | 0.589 | 0.24 | 3.28 | 157.0 | | | | | |
| | 0958 | | | | 20.5 | 7.62 | 0.589 | 0.18 | 2.71 | 154.3 | | | | | |
| | 1003 | 2.25 | | | 20.7 | 7.62 | 0.589 | 0.15 | 2.22 | 152.0 | | | | | |
| | 1008 | | | | 20.7 | 7.62 | 0.589 | 0.13 | 2.30 | 150.3 | | | | | |
| | 1013 | | | | 20.7 | 7.62 | 0.589 | 0.12 | 2.09 | 148.7 | | | | | |
| | 1018 | 3 | | | 20.8 | 7.62 | 0.589 | 0.11 | 2.01 | 147.4 | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| * WELL HAS OBSTRUCTION INSIDE CASING. COULD NOT MEASURE WATER SAMPLE @ - 1020 FI - UNDERWAY | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius | | | |
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| Site | Hennepin, IL | | | Major wells repairs * required to maintain well integrity? | | | Yes | No | NA |
| Inspection Date | 8/21/23 @ 1050 | | | | | | | | |
| Well Number | HEN-405 | | | | | | | | |
| Stick-up Monitoring Wells | | | | Comments | | | | | |
| 1. Outer protective casing | | | | Yes | No | NA | | | |
| Not corroded | | | | | X | | | | |
| Not dented | | | | | | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | | | |
| Not corroded | | | | | Y | | | | |
| Not dented | | | | | | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | | | | | | |
| 3. Are there weep holes in outer casing? | | | | Yes | No | NA | | | |
| 4. Weep holes able to drain? | | | | | | | | | |
| 5. Is there a lockable cap present? | | | | | | | | | |
| 6. Is there a lock present? | | | | | X | | | | |
| 7. Bumper posts in good condition? | | | | | | | | | |
| | | | | | | | | | |
| Flushmount Monitoring Wells | | | | | | | | | |
| 8. Can the lid be secured tightly? | | | | Yes | No | NA | | | |
| 9. Does the lid have a gasket that seals? | | | | | | X | | | |
| 10. No water in the flushmount? | | | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | | | |
| 12. Is there a lock present? | | | | | | | | | |
| | | | | | | | | | |
| All Monitoring Wells | | | | | | | | | |
| Downhole Condition | | | | | | | | | |
| 12. Water level measuring point clearly marked? | | | | Yes | No | NA | | | |
| 13. No obstructions in well? | | | | | X | | | | |
| 14. No plant roots or vegetation in well? | | | | | X | | | | |
| 15. No sediment in bottom of well? | | | | | | | | | |
| If present, how much sediment? | | | | — ft | | | | | |
| 16. Installed as total depth. | | | | 30.92ft | | | | | |
| 17. Measured total depth of well. | | | | | | | | | |
| General Condition | | | | | | | | | |
| 18. Concrete pad installed? | | | | Yes | No | NA | | | |
| 19. Concrete pad | | | | | | | | | |
| Slope away from casing? | | | | | X | | | | |
| Not deteriorated? | | | | | | | | | |
| Not heaved or below surrounding grade? | | | | | | | | | |
| 20. No surface seal settling? | | | | | | | | | |
| 21. Well clearly visible and labeled? | | | | X | | | | | |
| Comments: | | | | 37.92' | | | | | |
| | | | | DTW: 30.92 ft pump installed | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | |

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| PROJECT INFORMATION | | | | | | | | | | | |
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| Site: <u>HENNECP2</u> | | | Client: _____ | | | | | | | | |
| Project Number: <u>2023 0711</u> | | | Task #: _____ | | | Start Date: <u>8/23/23</u> | | | Time: <u>0820</u> | | |
| Field Personnel: <u>C TREMBLAY</u> | | | Finish Date: _____ | | | Time: <u>0919</u> | | | Time: _____ | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | |
| Well ID: <u>405</u> | | | | | | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | |
| Casing ID: _____ inches | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| PRE | 0832 | | 37.92 | 0 | | | | | | | |
| PURGE | 0836 | 0.1 | 37.92 | 0 | | | | | | | CLEAR |
| SAMPLE | 0841 | | 37.92 | 0 | 19.0 | 7.89 | 0.581 | 2.20 | 4.25 | 149.6 | ↓ |
| | 0846 | 1.5 | 37.92 | 0 | 18.8 | 7.89 | 0.579 | 0.41 | 3.29 | 143.4 | |
| | 0851 | | 37.92 | 0 | 19.7 | 7.88 | 0.579 | 0.44 | 2.58 | 139.1 | |
| | 0856 | | 37.92 | 0 | 18.7 | 7.88 | 0.579 | 0.37 | 2.16 | 135.7 | |
| | 0901 | 2:79 | | 37.92 | 0 | 18.8 | 7.88 | 0.579 | 0.37 | 2.13 | |
| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| SAMPLE @ 0905 FI - HAND PUMP | | | | | | Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | | | |
| | | | | | | | | | | | |

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|---|----------|--|--|--|----|----|--|--|
| Site | HENNEPIN | | | Major wells repairs* required to maintain well integrity? | | | | |
| Inspection Date | 8/24/23 | | | Yes | No | NA | | |
| Well Number | RCR 35 | | | Yes | No | NA | | |
| Stick-up Monitoring Wells | | | | Comments | | | | |
| 1. Outer protective Casing | | | | Yes | No | NA | | |
| Not corroded | | | | | X | | | |
| Not dented | | | | | | | | |
| Not cracked | | | | | | | | |
| Not loose | | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | | |
| Not corroded | | | | | X | | | |
| Not dented | | | | | | | | |
| Not cracked | | | | | | | | |
| Not loose | | | | | | | | |
| 3. Are there weep holes in outer casing? | | | | Yes | No | NA | | |
| 4. Weep holes able to drain? | | | | | X | | | |
| 5. Is there a lockable cap present? | | | | | | | | |
| 6. Is there a lock present? | | | | X | | | | |
| 7. Bumper posts in good condition? | | | | X | | | | |
| Flushmount Monitoring Wells | | | | | | | | |
| 8. Can the lid be secured tightly? | | | | Yes | No | NA | | |
| 9. Does the lid have a gasket that seals? | | | | | | X | | |
| 10. No water in the flushmount? | | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | | |
| 12. Is there a lock present? | | | | | | | | |
| All Monitoring Wells | | | | | | | | |
| Downhole Condition | | | | | | | | |
| 12. Water level measuring point clearly marked? | | | | Yes | No | NA | | |
| 13. No obstructions in well? | | | | | X | | | |
| 14. No plant roots or vegetation in well? | | | | | X | | | |
| 15. No sediment in bottom of well? | | | | | X | | | |
| If present, how much sediment? | | | | | ft | | | |
| 16. Installed as total depth. | | | | | ft | | | |
| 17. Measured total depth of well. | | | | | ft | | | |
| General Condition | | | | | | | | |
| 18. Concrete pad installed? | | | | Yes | No | NA | | |
| 19. Concrete pad | | | | | X | | | |
| Slope away from casing? | | | | | X | | | |
| Not deteriorated? | | | | | X | | | |
| Not heaved or below surrounding grade? | | | | | X | | | |
| 20. No surface seal settling? | | | | | X | | | |
| 21. Well clearly visible and labeled? | | | | X | | | | |
| Comments: | | | | | | | | |
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| | | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | |

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|------------------------|---|------------|-----------|
| Site | HE00 HENNEPIN ILL | | |
| Inspection Date | 8/24/23 | | |
| Well Number | HEN-52 | | |
| | Major wells repairs * required to maintain well integrity? | Yes | No |
| | | | X |
| | | | NA |

Stick-up Monitoring Wells

| | Yes | No | NA | |
|----------------------------|-----|----|----|-----------------|
| 1. Outer protective casing | Yes | No | NA | Comments |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |

| | | | | |
|--|-----|----|----|--|
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | X | X | |
| 5. Is there a lockable cap present? | | X | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | | | | |

Flushmount Monitoring Wells

| | | | | |
|---|-----|----|----|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | X | |
| 11. Is the well cap lockable? | | | X | |
| 12. Is there a lock present? | | | X | |

All Monitoring Wells

| | Yes | No | NA | |
|---|-----|----|----|--|
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |

General Condition

| | | | | |
|--|-----|----|----|--|
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | X | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

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|---|----------------|--|--|--|----|------------|-----------|-----------|--|
| Site | HENNEPIN, IL | | | Major wells repairs* required to maintain well integrity? | | Yes | No | NA | |
| Inspection Date | 9/24/23 @ 1400 | | | | | | | | |
| Well Number | HEN-8D | | | | | | | | |
| Sick-up Monitoring Wells | | | | Comments | | | | | |
| 1. Outer protective Casing | | | | Yes | No | NA | | | |
| Not corroded | | | | | X | | | | |
| Not dented | | | | | | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | | | | | | |
| 2. Inner casing | | | | Yes | No | NA | | | |
| Not corroded | | | | | X | | | | |
| Not dented | | | | | | | | | |
| Not cracked | | | | | | | | | |
| Not loose | | | | Yes | No | NA | | | |
| 3. Are there weep holes in outer casing? | | | | | | | | | |
| 4. Weep holes able to drain? | | | | | | X | | | |
| 5. Is there a lockable cap present? | | | | | | | | | |
| 6. Is there a lock present? | | | | | | | | | |
| 7. Bumper posts in good condition? | | | | | | | | | |
| Flushmount Monitoring Wells | | | | Yes | No | NA | | | |
| 8. Can the lid be secured tightly? | | | | | | X | | | |
| 9. Does the lid have a gasket that seals? | | | | | | | | | |
| 10. No water in the flushmount? | | | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | | | |
| 12. Is there a lock present? | | | | | | | | | |
| All Monitoring Wells | | | | Yes | No | NA | | | |
| Downhole Condition | | | | | | | | | |
| 12. Water level measuring point clearly marked? | | | | | | X | | | |
| 13. No obstructions in well? | | | | | | | | | |
| 14. No plant roots or vegetation in well? | | | | | X | | | | |
| 15. No sediment in bottom of well? | | | | | | | | | |
| If present, how much sediment? | | | | ft | | | | | |
| 16. Installed as total depth. | | | | ft | | | | | |
| 17. Measured total depth of well. | | | | ft | | | | | |
| General Condition | | | | Yes | No | NA | | | |
| 18. Concrete pad installed? | | | | | X | | | | |
| 19. Concrete pad | | | | | | | | | |
| Slope away from casing? | | | | | X | | | | |
| Not deteriorated? | | | | | | | | | |
| Not heaved or below surrounding grade? | | | | | | | | | |
| 20. No surface seal setting? | | | | | X | | | | |
| 21. Well clearly visible and labeled? | | | | | | | | | |
| Comments: | | | | DIVISION APP | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | |

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|------------------------|--|------------|-----------|
| Site | HPNN&P.D.P., IL | | |
| Inspection Date | 8/24/23 | 1355 | |
| Well Number | HEN-07 | | |
| | Major wells repairs* required to maintain well integrity? | Yes | No |
| | | | X |
| | | | NA |

Stick-up Monitoring Wells

| | Yes | No | NA | |
|----------------------------|-----|----|----|-----------------|
| 1. Outer protective Casing | Yes | No | NA | Comments |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |

2. Inner casing

| | Yes | No | NA | |
|--------------|-----|----|----|--|
| Not corroded | Yes | No | NA | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |

| | Yes | No | NA | |
|--|-----|----|----|---|
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | X | NA | X |
| 5. Is there a lockable cap present? | | X | | |
| 6. Is there a lock present? | | X | | |
| 7. Bumper posts in good condition? | | X | | |

Flushmount Monitoring Wells

| | Yes | No | NA | |
|---|-----|----|----|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | X | |
| 11. Is the well cap lockable? | | | X | |
| 12. Is there a lock present? | | | X | |

All Monitoring Wells

| | Yes | No | NA | |
|---|-----|----|----|--|
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | | | | |
| 16. Installed as total depth. | — | | | |
| 17. Measured total depth of well. | — | | | |

General Condition

| | Yes | No | NA | |
|--|-----|----|----|--|
| 18. Concrete pad installed? | | X | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | | X | |
| Not deteriorated? | | | X | |
| Not heaved or below surrounding grade? | | | X | |
| 20. No surface seal setting? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DFW on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
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| Site: <u>Hennepin J2</u> | | | | Client: _____ | | | | | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | | Start Date: <u>8/24/23</u> | | | Time: <u>1320</u> | | | | | | |
| Field Personnel: <u>Allison Beckett</u> | | | | Finish Date: _____ | | | | Time: <u>1430</u> | | | | | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | | | | | |
| Well ID: <u>HEN-07</u> | | Casing ID: <u>2</u> inches | | <input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling | | | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| | <u>1332</u> | | | | <u>14.4</u> | <u>6.98</u> | <u>0.727</u> | <u>5.73</u> | <u>5.16</u> | <u>144.3</u> | <u>Clear</u> | | | | |
| | <u>1337</u> | | | | <u>14.0</u> | <u>6.97</u> | <u>0.698</u> | <u>4.25</u> | <u>4.45</u> | <u>174.5</u> | | | | | |
| | <u>1342</u> | <u>2.0</u> | | | <u>13.9</u> | <u>6.94</u> | <u>0.701</u> | 4.20 <u>4.20</u> | <u>4.09</u> | <u>170.4</u> | | | | | |
| | <u>1347</u> | | | | <u>13.9</u> | <u>6.94</u> | <u>0.700</u> | <u>4.16</u> | <u>3.85</u> | <u>178.7</u> | | | | | |
| | <u>1352</u> | <u>3.0</u> | | | <u>13.8</u> | <u>6.93</u> | <u>0.699</u> | <u>4.16</u> | <u>3.57</u> | <u>179.6</u> | | | | | |
| | <u>1357</u> | | | | <u>13.8</u> | <u>6.91</u> | <u>0.699</u> | <u>4.15</u> | <u>3.55</u> | <u>179.9</u> | | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <p>Samples taken @ 1400</p> <p>Ferrous iron sample @ 1430: Under range</p> | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |
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| Site | Hennepin, IL | | | Major wells repairs * required to maintain well integrity? | | Yes | No | NA | |
| Inspection Date | 8/24/23 @ 1452 | | | | | | | | |
| Well Number | HEN-08 | | | | | | | | |
| Stick-up Monitoring Wells | | | | Comments | | | | | |
| 1. Outer protective casing | | | | Yes | No | NA | | | |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | | | |
| Not dented | | | | | <input checked="" type="checkbox"/> | | | | |
| Not cracked | | | | | <input checked="" type="checkbox"/> | | | | |
| Not loose | | | | | <input checked="" type="checkbox"/> | | | | |
| 2. Inner casing | | | | Yes | No | NA | | | |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | | | |
| Not dented | | | | | <input checked="" type="checkbox"/> | | | | |
| Not cracked | | | | | <input checked="" type="checkbox"/> | | | | |
| Not loose | | | | Yes | No | NA | | | |
| 3. Are there weep holes in outer casing? | | | | | <input checked="" type="checkbox"/> | | | | |
| 4. Weep holes able to drain? | | | | | <input checked="" type="checkbox"/> | | | | |
| 5. Is there a lockable cap present? | | | | | <input checked="" type="checkbox"/> | | | | |
| 6. Is there a lock present? | | | | | <input checked="" type="checkbox"/> | | | | |
| 7. Bumper posts in good condition? | | | | | <input checked="" type="checkbox"/> | | | | |
| Flushmount Monitoring Wells | | | | | | | | | |
| 8. Can the lid be secured tightly? | | | | Yes | No | NA | | | |
| 9. Does the lid have a gasket that seals? | | | | | <input checked="" type="checkbox"/> | | | | |
| 10. No water in the flushmount? | | | | | <input checked="" type="checkbox"/> | | | | |
| 11. Is the well cap lockable? | | | | | <input checked="" type="checkbox"/> | | | | |
| 12. Is there a lock present? | | | | | <input checked="" type="checkbox"/> | | | | |
| All Monitoring Wells | | | | | | | | | |
| Downhole Condition | | | | Yes | No | NA | | | |
| 12. Water level measuring point clearly marked? | | | | | <input checked="" type="checkbox"/> | | | | |
| 13. No obstructions in well? | | | | | <input checked="" type="checkbox"/> | | | | |
| 14. No plant roots or vegetation in well? | | | | | <input checked="" type="checkbox"/> | | | | |
| 15. No sediment in bottom of well? | | | | | <input checked="" type="checkbox"/> | | | | |
| If present, how much sediment? | | | | ft | | | | | |
| 16. Installed as total depth. | | | | ft | | | | | |
| 17. Measured total depth of well. | | | | ft | | | | | |
| General Condition | | | | | | | | | |
| 18. Concrete pad installed? | | | | Yes | No | NA | | | |
| 19. Concrete pad | | | | | <input checked="" type="checkbox"/> | | | | |
| Slope away from casing? | | | | | <input checked="" type="checkbox"/> | | | | |
| Not deteriorated? | | | | | <input checked="" type="checkbox"/> | | | | |
| Not heaved or below surrounding grade? | | | | | <input checked="" type="checkbox"/> | | | | |
| 20. No surface seal settling? | | | | | <input checked="" type="checkbox"/> | | | | |
| 21. Well clearly visible and labeled? | | | | <input checked="" type="checkbox"/> | | | | | |
| Comments: | | | | DFW: DA APP | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | |

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Site HENNEPIN JV Major wells repairs* required

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

Inspection Date 8/21/23 @ 1200 to maintain well integrity?

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

Well Number HEN-02

Stick-up Monitoring Wells

| | Yes | No | NA | |
|----------------------------|-----|-------------------------------------|----|-----------------|
| 1. Outer protective Casing | Yes | No | NA | Comments |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | | <input checked="" type="checkbox"/> | | |

| | | | | |
|-----------------|-----|-------------------------------------|----|--|
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | Yes | No | NA | |

| | | | | |
|--|-------------------------------------|-------------------------------------|-------------------------------------|--|
| 3. Are there weep holes in outer casing? | | <input checked="" type="checkbox"/> | | |
| 4. Weep holes able to drain? | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 5. Is there a lockable cap present? | | <input checked="" type="checkbox"/> | | |
| 6. Is there a lock present? | <input checked="" type="checkbox"/> | | | |
| 7. Bumper posts in good condition? | | | | |

Flushmount Monitoring Wells

| | | | | |
|---|-----|----|-------------------------------------|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | <input checked="" type="checkbox"/> | |
| 10. No water in the flushmount? | | | <input checked="" type="checkbox"/> | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | <input checked="" type="checkbox"/> | |

All Monitoring Wells

| | | | | |
|---|--------------|-------------------------------------|-------------------------------------|--|
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | <input checked="" type="checkbox"/> | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — | ft | | |
| 16. Installed as total depth. | — | ft | | |
| 17. Measured total depth of well. | <u>27.09</u> | ft | | |

General Condition

| | | | | |
|--|-------------------------------------|-------------------------------------|-------------------------------------|--|
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | <input checked="" type="checkbox"/> | | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| Not deteriorated? | | <input checked="" type="checkbox"/> | | |
| Not heaved or below surrounding grade? | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal settling? | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |

Comments:

DTN 41.8444 pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/24/2023 Time: 1025
 Field Personnel: Allison Beckett Finish Date: 8/24/2023 Time: 1120

| WELL INFORMATION | EVENT TYPE |
|--|--|
| Well ID: <u>HEN-02</u> Casing ID: <u>2</u> inches | <input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____ |

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|----------------|-----------------|--------------------------|-----------------------|-----------------|-------------|-------------|----------------------|-------------------------|-----------------|--------------|----------------|
| | <u>1032</u> | | <u>41.17</u> | | <u>15.4</u> | <u>7.12</u> | <u>0.1079</u> | <u>5.70</u> | <u>5.80</u> | <u>156.5</u> | <u>Clear</u> |
| | <u>1037</u> | | <u>41.17</u> | | <u>14.2</u> | <u>6.81</u> | <u>0.1087</u> | <u>0.63</u> | <u>5.08</u> | <u>172.7</u> | ↓ |
| | <u>1042</u> | <u>2.0</u> | <u>41.17</u> | | <u>14.0</u> | <u>6.78</u> | <u>0.1085</u> | <u>0.38</u> | <u>5.12</u> | <u>174.3</u> | |
| | <u>1047</u> | | <u>41.16</u> | | <u>14.1</u> | <u>6.81</u> | <u>0.1084</u> | <u>0.31</u> | <u>4.31</u> | <u>172.3</u> | |
| | <u>1052</u> | <u>3.0</u> | <u>41.15</u> | | <u>14.0</u> | <u>6.83</u> | <u>0.1084</u> | <u>0.27</u> | <u>3.99</u> | <u>170.8</u> | |
| | <u>1057</u> | | | | <u>14.0</u> | <u>6.83</u> | <u>0.1086</u> | <u>0.27</u> | <u>4.17</u> | <u>170.1</u> | |
| | <u>1102</u> | <u>4.0</u> | | | <u>14.0</u> | <u>6.83</u> | <u>0.1085</u> | <u>0.24</u> | <u>3.85</u> | <u>169.1</u> | |
| | | | | | | | | | | | |

NOTES (continued)

Samples taken @ 1105
NO FERROUS IRON SAMPLE

ABBREVIATIONS

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



| | | | | | | | |
|---|-------------------|--|--|---|-----|----|----|
| Site | HENNEPIN, IL | | | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date | 9/21/23 @ 1010 | | | | | | |
| Well Number | HEN-XP NO2 - P1VE | | | | | | |
| Stick-up Monitoring Wells | | | | Comments | | | |
| 1. Outer protective Casing | | | | | | | |
| Not corroded | | | | | | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | | | |
| 2. Inner casing | | | | | | | |
| Not corroded | | | | | | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | | | |
| 3. Are there weep holes in outer casing? | | | | | | | |
| 4. Weep holes able to drain? | | | | | | | |
| 5. Is there a lockable cap present? | | | | | | | |
| 6. Is there a lock present? | | | | | | | |
| 7. Bumper posts in good condition? | | | | | | | |
| Flushmount Monitoring Wells | | | | | | | |
| 8. Can the lid be secured tightly? | | | | | | | |
| 9. Does the lid have a gasket that seals? | | | | | | | |
| 10. No water in the flushmount? | | | | | | | |
| 11. Is the well cap lockable? | | | | | | | |
| 12. Is there a lock present? | | | | | | | |
| All Monitoring Wells | | | | | | | |
| Downhole Condition | | | | | | | |
| 12. Water level measuring point clearly marked? | | | | | | | |
| 13. No obstructions in well? | | | | | | | |
| 14. No plant roots or vegetation in well? | | | | | | | |
| 15. No sediment in bottom of well? | | | | | | | |
| If present, how much sediment? | | | | | | | |
| 16. Installed as total depth. | | | | | | | |
| 17. Measured total depth of well. | | | | | | | |
| General Condition | | | | | | | |
| 18. Concrete pad installed? | | | | | | | |
| 19. Concrete pad | | | | | | | |
| Slope away from casing? | | | | | | | |
| Not deteriorated? | | | | | | | |
| Not heaved or below surrounding grade? | | | | | | | |
| 20. No surface seal settling? | | | | | | | |
| 21. Well clearly visible and labeled? | | | | | | | |
| Comments: | | | | | | | |
| DTW: 14.39 ft | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|-----------------|-------------|--|----------------------|---|-------------------|---------------|----------------|
| Site: _____ | | | Client: _____ | | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | | Start Date: <u>8/24/23</u> | | | Time: <u>1252</u> | | |
| Field Personnel: <u>T. Brown</u> | | | Finish Date: _____ | | | Time: <u>1450</u> | | | | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | |
| Well ID: <u>XPU02</u> | | | | | | <input type="checkbox"/> Well Development | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: _____ inches | | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| PRE | <u>1256</u> | <u>4</u> | <u>14.03</u> | | | | | | | | |
| PURGE | <u>1304</u> | <u>0.1</u> | <u>14.19</u> | <u>-0.16</u> | | | | | | | <u>CLEAR</u> |
| SAMPLE | <u>1308</u> | <u>1.0</u> | <u>14.58</u> | <u>-0.39</u> | <u>19.4</u> | <u>12.03</u> | <u>3.071</u> | <u>0.91</u> | <u>89.87</u> | <u>-116.0</u> | |
| | <u>1313</u> | | <u>14.92</u> | <u>-0.36</u> | <u>19.2</u> | <u>12.13</u> | <u>3.111</u> | <u>0.21</u> | <u>59.77</u> | <u>-155.7</u> | |
| | <u>1318</u> | | <u>15.0</u> | <u>-0.18</u> | <u>19.4</u> | <u>12.14</u> | <u>3.109</u> | <u>0.14</u> | <u>40.43</u> | <u>-165.2</u> | |
| | <u>1323</u> | <u>2.5</u> | <u>15.1</u> | <u>-0.1</u> | <u>19.3</u> | <u>12.16</u> | <u>3.129</u> | <u>0.10</u> | <u>28.61</u> | <u>-168.5</u> | |
| | <u>1328</u> | | <u>15.13</u> | <u>-0.03</u> | <u>19.8</u> | <u>12.16</u> | <u>3.146</u> | <u>0.12</u> | <u>29.94</u> | <u>-157.5</u> | |
| | <u>1333</u> | | <u>15.15</u> | <u>-0.02</u> | <u>19.7</u> | <u>12.17</u> | <u>3.163</u> | <u>0.12</u> | <u>22.84</u> | <u>-152.3</u> | |
| | <u>1338</u> | <u>3.25</u> | <u>15.15</u> | <u>0</u> | <u>19.7</u> | <u>12.17</u> | <u>3.191</u> | <u>0.12</u> | <u>23.05</u> | <u>-148.4</u> | |
| | | | | | | | | | | | |
| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| <p><u>FI - 0.109</u></p> <p><u>Sample = 1345</u></p> <p><u>EB - 1345</u></p> | | | | | | Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celsius | | | | | |
| | | | | | | | | | | | |



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|------------------------|-------------------|--|--|---|----|----|--|
| Site | HENNEPIN ILL | | | Major wells repairs * required to maintain well integrity? | | | |
| Inspection Date | 8/21/23 @ 1005 | | | Yes | No | NA | |
| Well Number | HENNPDW 01 - PORE | | | X | | | |

| | Yes | No | NA | |
|---|-----|----|----|-----------------|
| Stick-up Monitoring Wells | | | | |
| 1. Outer protective casing | Yes | No | NA | Comments |
| Not corroded | | X | | |
| Not dented | | ↔ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | ↔ | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | | X | | |
| 6. Is there a lock present? | | X | | |
| 7. Bumper posts in good condition? | | X | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | ↔ | |

| | Yes | No | NA | |
|---|-----|----|----|----------|
| All Monitoring Wells | | | | |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | | | | |
| Installed as total depth. | | | | |
| Measured total depth of well. | | | | |
| | | | | 17.13 ft |
| | | | | ft |
| | | | | ft |
| General Condition | | | | |
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | | ↔ | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | ↔ | | |
| 20. No surface seal setting? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments: DTW: 9.45 FT Bottom of casing: 17.13 FT

* Major well repair are those that require a subcontractor or separate mobilization to complete

Site HENRAPPRMFL Major wells repairs* required Yes No NA
 Inspection Date 8/21/23 @ 1010 to maintain well integrity? Yes No NA
 Well Number HEN-XPNO3-P012

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|--|-----|----|----|----------|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | | | |
| Not corroded | Yes | No | NA | |
| Not dented | | X | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | | | | |
| 4. Weep holes able to drain? | | | | |
| 5. Is there a lockable cap present? | | | | |
| 6. Is there a lock present? | | X | | |
| 7. Bumper posts in good condition? | | | | |
| | | | | |
| | | | | |
| | | | | |

Flushmount Monitoring Wells

| | | | | |
|---|-----|----|----|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

| | | | | |
|---|-------|----|----|--|
| 12. Water level measuring point clearly marked? | Yes | No | NA | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | | | | |
| 16. Installed as total depth. | ~ | | | |
| | ft | | | |
| 17. Measured total depth of well. | 19.11 | | | |
| | ft | | | |

General Condition

| | | | | |
|--|-----|----|----|--|
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | X | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: 9.86 ft

* Major well repair are those that require a subcontractor or separate mobilization to complete

| | | | | | | | |
|---|----------------|--|--|--|-------------------------------------|--|-----------------------------|
| Site | Hennepin | | | Major wells repairs* required to maintain well integrity? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> NA |
| Inspection Date | 8/21/23 @ 0955 | | | | | | |
| Well Number | 10 | | | | | | |
| Stick-up Monitoring Wells | | | | | | | |
| 1. Outer protective casing | | | | Yes | No | NA | Comments |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | | <input checked="" type="checkbox"/> | | |
| Not cracked | | | | | <input checked="" type="checkbox"/> | | |
| Not loose | | | | | <input checked="" type="checkbox"/> | | |
| 2. Inner casing | | | | Yes | No | NA | |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | | <input checked="" type="checkbox"/> | | |
| Not cracked | | | | | <input checked="" type="checkbox"/> | | |
| Not loose | | | | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | | | | <input checked="" type="checkbox"/> | | |
| 4. Weep holes able to drain? | | | | | | <input checked="" type="checkbox"/> | |
| 5. Is there a lockable cap present? | | | | | <input checked="" type="checkbox"/> | | |
| 6. Is there a lock present? | | | | | <input checked="" type="checkbox"/> | | |
| 7. Bumper posts in good condition? | | | | | <input checked="" type="checkbox"/> | | |
| Flushmount Monitoring Wells | | | | | | | |
| 8. Can the lid be secured tightly? | | | | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | | | <input checked="" type="checkbox"/> | | |
| 10. No water in the flushmount? | | | | | <input checked="" type="checkbox"/> | | |
| 11. Is the well cap lockable? | | | | | <input checked="" type="checkbox"/> | | |
| 12. Is there a lock present? | | | | | <input checked="" type="checkbox"/> | | |
| All Monitoring Wells | | | | | | | |
| Downhole Condition | | | | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | | | | <input checked="" type="checkbox"/> | |
| 13. No obstructions in well? | | | | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | | | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | | | | <input checked="" type="checkbox"/> | | |
| If present, how much sediment? | | | | — | ft | | |
| 16. Installed as total depth. | | | | — | ft | | |
| 17. Measured total depth of well. | | | | 48.65ft | | | |
| General Condition | | | | | | | |
| 18. Concrete pad installed? | | | | Yes | No | NA | |
| 19. Concrete pad | | | | | <input checked="" type="checkbox"/> | | |
| Slope away from casing? | | | | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | | | | <input checked="" type="checkbox"/> | | |
| Not heaved or below surrounding grade? | | | | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal settling? | | | | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | | | | | <input checked="" type="checkbox"/> | | |
| Comments: | | | | | | | |
| DTW: 48.28 ft Bottom of casing / top of pump 48.115 | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |

Site Hennepin, IL Major wells repairs* required to maintain well integrity? Yes No NA

Inspection Date 8/21/23 0930 No NA

Well Number 50

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|----------------------------|-----|-------------------------------------|----|----------|
| 1. Outer protective Casing | | <input checked="" type="checkbox"/> | | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | | <input checked="" type="checkbox"/> | | |

| | | | | |
|--|-----|-------------------------------------|----|--|
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | <input checked="" type="checkbox"/> | | |
| 4. Weep holes able to drain? | | <input checked="" type="checkbox"/> | | |
| 5. Is there a lockable cap present? | | <input checked="" type="checkbox"/> | | |
| 6. Is there a lock present? | | <input checked="" type="checkbox"/> | | |
| 7. Bumper posts in good condition? | | <input checked="" type="checkbox"/> | | |

Flushmount Monitoring Wells

| | | | | |
|---|-----|----|-------------------------------------|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | <input checked="" type="checkbox"/> | |
| 10. No water in the flushmount? | | | <input checked="" type="checkbox"/> | |
| 11. Is the well cap lockable? | | | <input checked="" type="checkbox"/> | |
| 12. Is there a lock present? | | | <input checked="" type="checkbox"/> | |

All Monitoring Wells

| | | | | |
|---|-----|-------------------------------------|----|--|
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | <input checked="" type="checkbox"/> | | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | <input checked="" type="checkbox"/> | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |

General Condition

| | | | | |
|--|-------------------------------------|-------------------------------------|----|--|
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | <input checked="" type="checkbox"/> | | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | <input checked="" type="checkbox"/> | | |
| Not heaved or below surrounding grade? | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal settling? | <input checked="" type="checkbox"/> | | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

Site _____ Major wells repairs* required _____ Yes _____ No NA _____
 Inspection Date 2/25/23
 Well Number HEV 34 to maintain well integrity? _____

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|----------------------------|-----|-------------------------------------|----|----------|
| 1. Outer protective Casing | | <input checked="" type="checkbox"/> | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |

| | | | | |
|-----------------|-----|-------------------------------------|----|--|
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | | <input checked="" type="checkbox"/> | | |

| | | | | |
|--|-----|-------------------------------------|-------------------------------------|--|
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | | <input checked="" type="checkbox"/> | |
| 5. Is there a lockable cap present? | | <input checked="" type="checkbox"/> | | |
| 6. Is there a lock present? | | <input checked="" type="checkbox"/> | | |
| 7. Bumper posts in good condition? | | <input checked="" type="checkbox"/> | | |

Flushmount Monitoring Wells

| | | | | |
|---|-----|----|----|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

| | | | | |
|---|-----|-------------------------------------|----|--|
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | <input checked="" type="checkbox"/> | | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | <input checked="" type="checkbox"/> | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |

General Condition

| | | | | |
|--|-------------------------------------|-------------------------------------|----|--|
| 18. Concrete pad installed? | Yes | No | NA | |
| 19. Concrete pad | <input checked="" type="checkbox"/> | | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | <input checked="" type="checkbox"/> | | |
| Not heaved or below surrounding grade? | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal settling? | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | | <input checked="" type="checkbox"/> | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|-----------------|-----------------|---|----------------------|-------------------------|-------------------|-------------------|----------------|
| Site: _____ | | | | | | Client: _____ | | | | | |
| Project Number: _____ | | | | Task #: _____ | | Start Date: 8/25/23 | | | Time: 1053 | | |
| Field Personnel: TREMBLAY | | | | | | Finish Date: _____ | | | Time: 145 | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | |
| Well ID: HEN 34 | | | | | | <input type="checkbox"/> Well Development <input type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | |
| Casing ID: _____ inches | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| Purge | 1055 | 0-1 | | | 13.2 | 7.21 | 0.948 | 2.06 | 14.02 | -116.2 | CLEAR |
| | 1100 | | | | 13.7 | 7.21 | 0.949 | 2.06 | 14.02 | -116.2 | CLEAR |
| | 1105 | | | | 12.8 | 7.09 | 0.966 | 0.25 | 7.80 | -108.6 | ↓ |
| | 1110 | 2.5 | | | 12.8 | 7.08 | 0.969 | 0.21 | 6.54 | -110.4 | |
| | 1115 | | | | 12.7 | 7.08 | 0.971 | 0.22 | 5.51 | -111.2 | |
| | 1120 | | | | 12.8 | 7.08 | 0.972 | 0.20 | 4.81 | -110.7 | |
| | 1125 | | | | | | | | | | |
| | 1130 | | | | | | | | | | |
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| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| F1 - UNDERG SAMPLE @ 1125 | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | | |
| | | | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius | | | | | |



Site _____ Major wells repairs * required to maintain well integrity?

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

Inspection Date 8/25/23

Well Number HEN 49

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|----------------------------|-----|-------------------------------------|----|----------|
| 1. Outer protective Casing | | <input checked="" type="checkbox"/> | | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | | <input checked="" type="checkbox"/> | | |

| | Yes | No | NA | Comments |
|--|-----|-------------------------------------|----|----------|
| 2. Inner casing | | <input checked="" type="checkbox"/> | | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | | <input checked="" type="checkbox"/> | | |
| 3. Are there weep holes in outer casing? | | <input checked="" type="checkbox"/> | | |
| 4. Weep holes able to drain? | | <input checked="" type="checkbox"/> | | |
| 5. Is there a lockable cap present? | | <input checked="" type="checkbox"/> | | |
| 6. Is there a lock present? | | <input checked="" type="checkbox"/> | | |
| 7. Bumper posts in good condition? | | <input checked="" type="checkbox"/> | | |

Flushmount Monitoring Wells

| | Yes | No | NA | Comments |
|---|-----|-------------------------------------|----|----------|
| 8. Can the lid be secured tightly? | | <input checked="" type="checkbox"/> | | |
| 9. Does the lid have a gasket that seals? | | <input checked="" type="checkbox"/> | | |
| 10. No water in the flushmount? | | <input checked="" type="checkbox"/> | | |
| 11. Is the well cap lockable? | | <input checked="" type="checkbox"/> | | |
| 12. Is there a lock present? | | <input checked="" type="checkbox"/> | | |

All Monitoring Wells

| | Yes | No | NA | Comments |
|---|-----|-------------------------------------|----|----------|
| 12. Water level measuring point clearly marked? | | <input checked="" type="checkbox"/> | | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | <input checked="" type="checkbox"/> | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |

General Condition

| | Yes | No | NA | Comments |
|--|-------------------------------------|-------------------------------------|----|----------|
| 18. Concrete pad installed? | <input checked="" type="checkbox"/> | | | |
| 19. Concrete pad | | <input checked="" type="checkbox"/> | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | <input checked="" type="checkbox"/> | | |
| Not heaved or below surrounding grade? | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal settling? | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |

Comments:

BATTERY WAS REPLACED + WOULD NOT CORRECTLY WELL WAS COVERED MANUALLY

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|--|-------------|-------------|--|--|-----------------|-------------------|--------------------|
| Site: <u>Hennepin, IL</u> | | | | Client: <u>Ramboll</u> | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: <u>8/25/23</u> | | Time: <u>0925</u> | |
| Field Personnel: <u>Allison Belmont</u> | | | | Finish Date: _____ | | | | Time: <u>1055</u> | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>HEN-49</u> | | | | <input type="checkbox"/> Well Development | | | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: <u>2</u> inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| <u>09</u> | <u>1032</u> | | <u>19.65</u> | | <u>15.5</u> | <u>7.2</u> | <u>0.700</u> | <u>1.40</u> | <u>72.1</u> | <u>-1.5</u> | <u>Clear</u> |
| <u>09</u> | <u>1037</u> | | <u>19.65</u> | | <u>15.3</u> | <u>7.13</u> | <u>0.698</u> | <u>0.22</u> | <u>92.38</u> | <u>38.0</u> | <u>Brown Murky</u> |
| <u>09</u> | <u>1042</u> | <u>2.0</u> | <u>19.65</u> | | <u>15.4</u> | <u>7.12</u> | <u>0.1098</u> | <u>0.17</u> | <u>110.79</u> | <u>48.6</u> | |
| <u>09</u> | <u>1047</u> | | <u>19.64</u> | | <u>15.4</u> | <u>7.12</u> | <u>0.1098</u> | <u>0.15</u> | <u>122.4</u> | <u>57.7</u> | |
| <u>09</u> | <u>1052</u> | | <u>19.65</u> | | <u>15.4</u> | <u>7.12</u> | <u>0.647</u> | <u>0.13</u> | <u>121.9</u> | <u>58.8</u> | |
| <u>09</u> | <u>1057</u> | <u>5.0</u> | <u>19.64</u> | | <u>15.4</u> | <u>7.12</u> | <u>0.698</u> | <u>0.12</u> | <u>122.9</u> | <u>59.1</u> | |
| <u>10</u> | <u>1102</u> | | <u>19.65</u> | | <u>15.3</u> | <u>7.12</u> | <u>0.698</u> | <u>0.11</u> | <u>123.6</u> | <u>58.2</u> | |
| NOTES (continued) | | | | | | | ABBREVIATIONS | | | | |
| <p>Sample taken @ 1105</p> <p>Ferrous iron sample @ 1030: under range</p> | | | | | | | <p>Cond. - Actual Conductivity</p> <p>FT BTOC - Feet Below Top of Casing</p> <p>na - Not Applicable</p> <p>nm - Not Measured</p> | | | | |
| | | | | | | | <p>ORP - Oxidation-Reduction Potential</p> <p>SEC - Specific Electrical Conductance</p> <p>SU - Standard Units</p> <p>Temp - Temperature</p> <p>°C - Degrees Celsius</p> | | | | |



Site Hennepin 2 Major wells repairs * required

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

 Inspection Date 8/28/23 0815 to maintain well integrity?

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

 Well Number HN-10

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|----------------------------|-----|-------------------------------------|----|----------|
| 1. Outer protective casing | | <input checked="" type="checkbox"/> | | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | | | |
| Not loose | | | | |

2. Inner casing

| | Yes | No | NA | Comments |
|--------------|-----|-------------------------------------|----|----------|
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | | | |
| Not loose | | | | |

| | Yes | No | NA | Comments |
|--|-------------------------------------|----|-------------------------------------|----------|
| 3. Are there weep holes in outer casing? | | | <input checked="" type="checkbox"/> | |
| 4. Weep holes able to drain? | | | <input checked="" type="checkbox"/> | |
| 5. Is there a lockable cap present? | | | | |
| 6. Is there a lock present? | <input checked="" type="checkbox"/> | | | |
| 7. Bumper posts in good condition? | | | | |

Flushmount Monitoring Wells

| | Yes | No | NA | Comments |
|---|-----|----|-------------------------------------|----------|
| 8. Can the lid be secured tightly? | | | <input checked="" type="checkbox"/> | |
| 9. Does the lid have a gasket that seals? | | | <input checked="" type="checkbox"/> | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | <input checked="" type="checkbox"/> | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

| Downhole Condition | Yes | No | NA | Comments |
|---|-------------------------------------|-------------------------------------|----|----------|
| 12. Water level measuring point clearly marked? | <input checked="" type="checkbox"/> | | | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | — ft | | | |
| 17. Measured total depth of well. | — ft | | | |

General Condition

| | Yes | No | NA | Comments |
|--|-------------------------------------|-------------------------------------|-------------------------------------|----------|
| 18. Concrete pad installed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | | <input checked="" type="checkbox"/> | |
| Not deteriorated? | | | <input checked="" type="checkbox"/> | |
| Not heaved or below surrounding grade? | | | <input checked="" type="checkbox"/> | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |

Comments:

DTW: 53.90, dead BATTERIES/TRANSISTOR IS
Friend

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|------------------------|--|----------------------------|--|---|-------------------|--------------|----------------|---|--|--|--|
| Site: <u>Hennepin, IL</u> | | | | Client: <u>Ramboll</u> | | | | | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | | Start Date: <u>8/28/23</u> | | | Time: <u>0800</u> | | | | | | |
| Field Personnel: <u>Allison Barrett</u> | | | | Finish Date: _____ | | | | Time: <u>0905</u> | | | | | | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | | | | | |
| Well ID: <u>HEN-110</u> | | | | | <input type="checkbox"/> Well Development | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | |
| Casing ID: <u>2</u> inches | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| | <u>0808</u> | | <u>53.90</u> | | <u>19.9</u> | <u>7.47</u> | <u>0.550</u> | <u>8.13</u> | <u>4.40</u> | <u>114.5</u> | <u>clear</u> | | | | |
| | <u>0813</u> | | <u>53.90</u> | | <u>22.5</u> | <u>7.23</u> | <u>0.553</u> | <u>7.41</u> | <u>3.88</u> | <u>131.4</u> | | | | | |
| | <u>0818</u> | | <u>53.90</u> | | <u>22.7</u> | <u>7.23</u> | <u>0.554</u> | <u>1.21</u> | <u>3.92</u> | <u>131.1</u> | | | | | |
| | <u>0823</u> | <u>1.0</u> | <u>53.90</u> | | <u>22.8</u> | <u>7.23</u> | <u>0.556</u> | <u>0.53</u> | <u>3.85</u> | <u>126.8</u> | | | | | |
| | <u>0828</u> | | <u>53.90</u> | | <u>22.8</u> | <u>7.23</u> | <u>0.556</u> | <u>0.41</u> | <u>3.89</u> | <u>123.5</u> | | | | | |
| | <u>0833</u> | <u>2.0</u> | <u>53.90</u> | | <u>22.8</u> | <u>7.23</u> | <u>0.556</u> | <u>0.37</u> | <u>3.99</u> | <u>122.2</u> | <u>↓</u> | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <p><u>Samples taken @ 0835</u></p> <p><u>Ferrrous iron sample @ 0850: Under range</u></p> | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius | | | |
| | | | | | | | | | | | | | | | |



Site Hennepin, IL Major wells repairs * required to maintain well integrity?

| | | |
|-----|----|----|
| Yes | No | NA |
|-----|----|----|

Inspection Date 8/28/23 @ 0915

Well Number HEN-17

Stick-up Monitoring Wells

| | Yes | No | NA | Comments |
|----------------------------|-----|-------------------------------------|----|----------|
| 1. Outer protective casing | | <input checked="" type="checkbox"/> | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |

2. Inner casing

| | Yes | No | NA | Comments |
|--------------|-----|-------------------------------------|----|----------|
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |

| | | | | |
|--|--|-------------------------------------|--|--|
| 3. Are there weep holes in outer casing? | | | | |
| 4. Weep holes able to drain? | | | | |
| 5. Is there a lockable cap present? | | <input checked="" type="checkbox"/> | | |
| 6. Is there a lock present? | | <input checked="" type="checkbox"/> | | |
| 7. Bumper posts in good condition? | | | | |

Flushmount Monitoring Wells

| | Yes | No | NA | Comments |
|---|-----|----|-------------------------------------|----------|
| 8. Can the lid be secured tightly? | | | <input checked="" type="checkbox"/> | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

| Downhole Condition | Yes | No | NA | Comments |
|---|-----|-------------------------------------|----|----------|
| 12. Water level measuring point clearly marked? | | | | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — | ft | | |
| 16. Installed as total depth. | — | ft | | |
| 17. Measured total depth of well. | — | ft | | |

General Condition

| | Yes | No | NA | Comments |
|--|-------------------------------------|-------------------------------------|----|----------|
| 18. Concrete pad installed? | <input checked="" type="checkbox"/> | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | |
| Slope deteriorated? | <input checked="" type="checkbox"/> | | | CRACKED |
| Not heaved or below surrounding grade? | <input checked="" type="checkbox"/> | | | CRACKED |
| 20. No surface seal settling? | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |

Comments:

DTM: DM App

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | | | | | | | |
|--|---------------------------------------|--------------------------|-----------------------|--|-------------|-------------|----------------------|---|-----------------|-------------------|----------------|----------------------------|-------------------------------------|------------------------------------|---------------------------------------|---------------------|---------------------|-------------------|--------------------|--|----------------------|
| Site: <u>Hennepin, IL</u> | | | | Client: <u>Ramboll</u> | | | | | | | | | | | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: <u>8/28/23</u> | | Time: <u>0905</u> | | | | | | | | | | | |
| Field Personnel: <u>Ajison BUKETT</u> | | | | Finish Date: _____ | | | | Time: <u>1030</u> | | | | | | | | | | | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | | | | | | | | | | | |
| Well ID: <u>HEN-17</u> | | | | <input type="checkbox"/> Well Development | | | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | | | | | | |
| Casing ID: <u>2</u> inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | | | | | | | |
| | <u>0911</u> | | | | <u>22.6</u> | <u>7.15</u> | <u>0.565</u> | <u>5.91</u> | <u>5.06</u> | <u>137.9</u> | <u>clear</u> | | | | | | | | | | |
| | <u>0916</u> | | | | <u>22.7</u> | <u>7.35</u> | <u>0.514</u> | <u>6.13</u> | <u>3.97</u> | <u>140.7</u> | <u>↓</u> | | | | | | | | | | |
| | <u>0921</u> | | | | <u>22.5</u> | <u>7.35</u> | <u>0.508</u> | <u>10.06</u> | <u>4.08</u> | <u>144.3</u> | <u>↓</u> | | | | | | | | | | |
| | <u>0926</u> | <u>1.0</u> | | | <u>22.5</u> | <u>7.35</u> | <u>0.508</u> | <u>11.00</u> | <u>3.96</u> | <u>146.5</u> | <u>↓</u> | | | | | | | | | | |
| | <u>0931</u> | | | | <u>22.4</u> | <u>7.34</u> | <u>0.507</u> | <u>5.88</u> | <u>3.99</u> | <u>147.6</u> | <u>↓</u> | | | | | | | | | | |
| | <u>0936</u> | <u>2.0</u> | | | <u>22.4</u> | <u>7.34</u> | <u>0.506</u> | <u>5.76</u> | <u>4.02</u> | <u>148.2</u> | <u>↓</u> | | | | | | | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | | | | | | | |
| <p><u>Samples taken @ 0940</u></p> <p><u>Ferrous iron sample @ 0945: Under range</u></p> | | | | | | | | <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Cond - Actual Conductivity</td> <td style="width: 50%;">ORP - Oxidation-Reduction Potential</td> </tr> <tr> <td>FT BTOC - Feet Below Top of Casing</td> <td>SEC - Specific Electrical Conductance</td> </tr> <tr> <td>na - Not Applicable</td> <td>SU - Standard Units</td> </tr> <tr> <td>nm - Not Measured</td> <td>Temp - Temperature</td> </tr> <tr> <td></td> <td>°C - Degrees Celsius</td> </tr> </table> | | | | Cond - Actual Conductivity | ORP - Oxidation-Reduction Potential | FT BTOC - Feet Below Top of Casing | SEC - Specific Electrical Conductance | na - Not Applicable | SU - Standard Units | nm - Not Measured | Temp - Temperature | | °C - Degrees Celsius |
| Cond - Actual Conductivity | ORP - Oxidation-Reduction Potential | | | | | | | | | | | | | | | | | | | | |
| FT BTOC - Feet Below Top of Casing | SEC - Specific Electrical Conductance | | | | | | | | | | | | | | | | | | | | |
| na - Not Applicable | SU - Standard Units | | | | | | | | | | | | | | | | | | | | |
| nm - Not Measured | Temp - Temperature | | | | | | | | | | | | | | | | | | | | |
| | °C - Degrees Celsius | | | | | | | | | | | | | | | | | | | | |

dupe @ 0940

| | | | | | | | |
|---|------|--|--|--|-------------------------------------|-------------------------------------|-----------------|
| Site | | | | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date | 8/28 | | | | | <input checked="" type="checkbox"/> | |
| Well Number | 032 | | | | | | |
| Stick-up Monitoring Wells | | | | | | | |
| 1. Outer protective Casing | | | | Yes | No | NA | Comments |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | | <input checked="" type="checkbox"/> | | |
| Not cracked | | | | | <input checked="" type="checkbox"/> | | |
| Not loose | | | | | <input checked="" type="checkbox"/> | | |
| 2. Inner casing | | | | Yes | No | NA | |
| Not corroded | | | | | <input checked="" type="checkbox"/> | | |
| Not dented | | | | | <input checked="" type="checkbox"/> | | |
| Not cracked | | | | | <input checked="" type="checkbox"/> | | |
| Not loose | | | | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | | | | <input checked="" type="checkbox"/> | | |
| 4. Weep holes able to drain? | | | | | <input checked="" type="checkbox"/> | | |
| 5. Is there a lockable cap present? | | | | | <input checked="" type="checkbox"/> | | |
| 6. Is there a lock present? | | | | | <input checked="" type="checkbox"/> | | |
| 7. Bumper posts in good condition? | | | | | <input checked="" type="checkbox"/> | | |
| Flushmount Monitoring Wells | | | | | | | |
| 8. Can the lid be secured tightly? | | | | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | | _____ | | | |
| 10. No water in the flushmount? | | | | _____ | | | |
| 11. Is the well cap lockable? | | | | _____ | | | |
| 12. Is there a lock present? | | | | _____ | | | |
| All Monitoring Wells | | | | | | | |
| Downhole Condition | | | | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | | | <input checked="" type="checkbox"/> | | |
| 13. No obstructions in well? | | | | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | | | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | | | | <input checked="" type="checkbox"/> | | |
| If present, how much sediment? | | | | ft | | | |
| 16. Installed as total depth. | | | | ft | | | |
| 17. Measured total depth of well. | | | | ft | | | |
| General Condition | | | | | | | |
| 18. Concrete pad installed? | | | | Yes | No | NA | |
| 19. Concrete pad | | | | | <input checked="" type="checkbox"/> | | |
| Slope away from casing? | | | | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | | | | <input checked="" type="checkbox"/> | | |
| Not heaved or below surrounding grade? | | | | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal settling? | | | | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | | | | | <input checked="" type="checkbox"/> | | |
| Comments: | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--|-------------|--|----------------------|---|------------------|------------------|----------------|
| Site: _____ | | | | | | Client: _____ | | | | | |
| Project Number: _____ | | | | Task #: _____ | | Start Date: <u>8/28</u> | | Time: <u>0906</u> | | | |
| Field Personnel: <u>TREMBLAY</u> | | | | Finish Date: _____ | | Time: <u>121</u> | | | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>03R</u> | | | | <input type="checkbox"/> Well Development | | | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: _____ inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| <u>Purge</u> | <u>0915</u> | <u>0.1</u> | | | | | | | 10.85 | 137.8 | <u>Clear</u> |
| <u>Sample</u> | <u>0920</u> | | | | <u>16.2</u> | <u>7.22</u> | <u>0.655</u> | <u>0.81</u> | <u>10.85</u> | <u>137.8</u> | <u>1</u> |
| | <u>0925</u> | <u>1.0</u> | | | <u>18.2</u> | <u>7.21</u> | <u>0.653</u> | <u>0.32</u> | <u>5.46</u> | <u>137.8</u> | |
| | <u>0930</u> | | | | <u>14.2</u> | <u>7.21</u> | <u>0.653</u> | <u>0.22</u> | <u>3.81</u> | <u>132.9</u> | |
| | <u>0935</u> | | | | <u>18.3</u> | <u>7.21</u> | <u>0.653</u> | <u>0.22</u> | <u>2.99</u> | <u>129.4</u> | |
| | <u>0940</u> | <u>2.25</u> | | | <u>16.3</u> | <u>7.20</u> | <u>0.652</u> | <u>0.21</u> | <u>2.54</u> | <u>126.9</u> | |
| | <u>0945</u> | | | | | | | | | | |
| | <u>0950</u> | | | | | | | | | | |
| | <u>0955</u> | | | | | | | | | | |
| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| <u>Fl - Under</u> <u>Sample @ 0945</u> | | | | | | Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius | | | | | |
| | | | | | | | | | | | |



Site _____ Major wells repairs * required _____ Yes _____ No NA _____
 Inspection Date 8/28/23 to maintain well integrity? _____
 Well Number 185

Stick-up Monitoring Wells **Comments**

| | | | | |
|--|-----|--|----|--|
| 1. Outer protective casing | Yes | No <input checked="" type="checkbox"/> | NA | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | Yes | No <input checked="" type="checkbox"/> | NA | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | | | | |
| 4. Weep holes able to drain? | | | | |
| 5. Is there a lockable cap present? | Yes | No <input checked="" type="checkbox"/> | NA | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |

Flushmount Monitoring Wells

| | | | | |
|---|----------------|---------------|---------------|--|
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

| | | | | |
|---|-----|-------------------------------------|----|--|
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | <input checked="" type="checkbox"/> | | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | <input checked="" type="checkbox"/> | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |

General Condition

| | | | | |
|--|---|-------------------------------------|----|--|
| 18. Concrete pad installed? | Yes <input checked="" type="checkbox"/> | No | NA | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | <input checked="" type="checkbox"/> | | |
| Not heaved or below surrounding grade? | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal settling? | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | | <input checked="" type="checkbox"/> | | |

Comments:

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|--|-------------|--|----------------------|-------------------------|-------------------|--------------|----------------|
| Site: _____ | | | | | | Client: _____ | | | | | |
| Project Number: _____ | | | | Task #: _____ | | Start Date: <u>8/28/23</u> | | | Time: <u>0800</u> | | |
| Field Personnel: <u>Travis</u> | | | | | | Finish Date: _____ | | | Time: <u>0905</u> | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>185</u> | | | | <input type="checkbox"/> Well Development | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | |
| Casing ID: _____ inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| <u>Purge</u> | <u>0810</u> | <u>0.25</u> | | | | | | | | | <u>CLEAR</u> |
| | <u>0811</u> | | | | <u>16.8</u> | <u>7.52</u> | <u>0.666</u> | <u>2.30</u> | <u>5.45</u> | <u>104.0</u> | |
| | <u>0816</u> | | | | <u>16.7</u> | <u>7.39</u> | <u>0.661</u> | <u>0.42</u> | <u>3.20</u> | <u>103.2</u> | |
| | <u>0821</u> | | | | <u>16.8</u> | <u>7.39</u> | <u>0.661</u> | <u>0.26</u> | <u>2.61</u> | <u>98.1</u> | |
| | <u>0826</u> | <u>2.25</u> | | | <u>16.8</u> | <u>7.38</u> | <u>0.661</u> | <u>0.22</u> | <u>2.49</u> | <u>75.5</u> | |
| | <u>0831</u> | <u>2.5</u> | | | <u>16.8</u> | <u>7.38</u> | <u>0.661</u> | <u>0.20</u> | <u>2.46</u> | <u>94.1</u> | |
| | <u>0836</u> | | | | | | | | | | |
| | <u>0841</u> | | | | | | | | | | |
| | <u>0846</u> | | | | | | | | | | |
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| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| <u>FI - UNDER</u> <u>0835</u> <u>sample</u> | | | | | | Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius | | | | | |
| | | | | | | | | | | | |

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|---|----------------|--|--|---|-----|----|----|
| Site | HENNEPIN, IL | | | Major wells repairs * required to maintain well integrity? | Yes | No | NA |
| Inspection Date | 8/22/23 @ 1125 | | | | | | |
| Well Number | HEN-465 | | | | | | |
| Stick-up Monitoring Wells | | | | Comments | | | |
| 1. Outer protective casing | | | | Yes | No | NA | |
| Not corroded | | | | | X | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | | ↓ | | |
| 2. Inner casing | | | | Yes | No | NA | |
| Not corroded | | | | | X | | |
| Not dented | | | | | | | |
| Not cracked | | | | | | | |
| Not loose | | | | Yes | No | NA | |
| 3. Are there weep holes in outer casing? | | | | | X | | |
| 4. Weep holes able to drain? | | | | | ↓ | | |
| 5. Is there a lockable cap present? | | | | | | X | |
| 6. Is there a lock present? | | | | | X | | |
| 7. Bumper posts in good condition? | | | | | | | |
| Flushmount Monitoring Wells | | | | Yes | No | NA | |
| 8. Can the lid be secured tightly? | | | | | | X | |
| 9. Does the lid have a gasket that seals? | | | | | | | |
| 10. No water in the flushmount? | | | | | | | |
| 11. Is the well cap lockable? | | | | | | ↓ | |
| 12. Is there a lock present? | | | | | | | |
| All Monitoring Wells | | | | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | | | | X | |
| 13. No obstructions in well? | | | | | X | | |
| 14. No plant roots or vegetation in well? | | | | | ↓ | | |
| 15. No sediment in bottom of well? | | | | | | | |
| If present, how much sediment? | | | | - | | | |
| 16. Installed as total depth. | | | | ft | | | |
| 17. Measured total depth of well. | | | | 3019 | ft | | |
| General Condition | | | | Yes | No | NA | |
| 18. Concrete pad installed? | | | | | X | | |
| 19. Concrete pad | | | | | | | |
| Slope away from casing? | | | | | X | | |
| Not deteriorated? | | | | | | | |
| Not heaved or below surrounding grade? | | | | | ↓ | | |
| 20. No surface seal settling? | | | | | | | |
| 21. Well clearly visible and labeled? | | | | | X | | |
| Comments: | | | | | | | |
| DTW: 18.98 pump installed | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | |

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--|-------------|----------------------------|----------------------|---|-----------------|-------------------|--------------------|--|--|--|--|
| Site: <u>Hennepin, IL</u> | | | | | | Client: <u>Ramboll</u> | | | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | Start Date: <u>8/28/23</u> | | | | Time: <u>1040</u> | | | | | |
| Field Personnel: <u>Allison Beckett</u> | | | | | | Finish Date: _____ | | | | Time: <u>1140</u> | | | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | | | | | |
| Well ID: <u>HEN-455</u> | | | | <input type="checkbox"/> Well Development | | | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | |
| Casing ID: <u>2</u> inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| | <u>1044</u> | | <u>18.98</u> | | <u>19.3</u> | <u>7.32</u> | <u>0.700</u> | <u>3.27</u> | <u>9.13</u> | <u>57.9</u> | <u>Clear</u> | | | | |
| | <u>1049</u> | | <u>18.97</u> | | <u>19.1</u> | <u>7.17</u> | <u>0.041</u> | <u>0.25</u> | <u>148.24</u> | <u>108.9</u> | <u>Brown/murky</u> | | | | |
| | <u>1054</u> | <u>2.5</u> | <u>18.98</u> | | <u>19.1</u> | <u>7.10</u> | <u>0.040</u> | <u>0.22</u> | <u>130.10</u> | <u>111.7</u> | | | | | |
| | <u>1059</u> | | <u>18.98</u> | | <u>19.1</u> | <u>7.10</u> | <u>0.040</u> | <u>0.19</u> | <u>89.9</u> | <u>110.1</u> | | | | | |
| | <u>1104</u> | | <u>18.98</u> | | <u>19.1</u> | <u>7.10</u> | <u>0.040</u> | <u>0.18</u> | <u>107.30</u> | <u>118.0</u> | | | | | |
| | <u>1109</u> | <u>5.0</u> | <u>18.98</u> | | <u>19.1</u> | <u>7.10</u> | <u>0.040</u> | <u>0.17</u> | <u>54.30</u> | <u>119.2</u> | | | | | |
| | <u>1118</u> | | <u>18.98</u> | | <u>19.1</u> | <u>7.10</u> | <u>0.040</u> | <u>0.17</u> | <u>55.00</u> | <u>120.2</u> | | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <p>Samples taken @ 1115 1115</p> <p>Ferrous iron sample @ 1130: under range</p> | | | | | | | | <p>Cond - Actual Conductivity</p> <p>FT BTOC - Feet Below Top of Casing</p> <p>na - Not Applicable</p> <p>nm - Not Measured</p> | | | | <p>ORP - Oxidation-Reduction Potential</p> <p>SEC - Specific Electrical Conductance</p> <p>SU - Standard Units</p> <p>Temp - Temperature</p> <p>°C - Degrees Celcius</p> | | | |

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All DTWs on SAR-4 form may be collected at anytime during the sampling event.

Plant: HEN
Event: HEN-23Q3 Rev 0

| Well | Unique ID | Date | Time | Measured Depth to Water (ft bmp) | On-site Transducer Data | | | | | Comments | Initials |
|------|-----------|-----------|-------|----------------------------------|-------------------------|------------------------------------|-------------------------------|-------------------|--------------|---|----------|
| | | | | | Data Logger Serial No. | Does Data Logger Serial No. Match? | WL Reading on Transducer (ft) | Data down-loaded? | Batt (H/M/L) | | |
| 03R | HEN_03R | 8/28/2023 | 9:06 | See transducer reading | 21615140 | y | 448.07 | y | h | | CT |
| 07 | HEN_07 | 8/24/2023 | 13:20 | See transducer reading | 21615139 | y | 450.45 | y | h | | AB |
| 08 | HEN_08 | 8/24/2023 | 14:35 | See transducer reading | 21615138 | y | 448.33 | y | h | | AB |
| 08D | HEN_08&D | 8/24/2023 | 11:40 | See transducer reading | 21615598 | y | 448.09 | y | h | | AB |
| 12 | HEN_12 | 8/23/2023 | 9:30 | See transducer reading | 21615520 | y | 448.17 | y | h | | AB |
| 13 | HEN_13 | 8/23/2023 | 10:55 | See transducer reading | 21615515 | y | 448.22 | y | h | | AB |
| 16 | HEN_16 | 8/28/2023 | 8:00 | 53.9 | 21615137 | y | N/A | n | h | Replaced battery, issues connecting to hobo link, manually gauged well. | AB |
| 17 | HEN_17 | 8/28/2023 | 9:05 | See transducer reading | 21615500 | y | 449.15 | y | h | | AB |
| 18S | HEN_18#S | 8/28/2023 | 8:00 | See transducer reading | 21615482 | y | 448.12 | y | h | | CT |
| 18D | HEN_18&D | 8/23/2023 | 13:18 | See transducer reading | 21615609 | y | 448.08 | y | h | | CT |
| 21R | HEN_21R | 8/22/2023 | 13:00 | See transducer reading | 21615613 | y | 447.73 | y | h | | AB |
| 22 | HEN_22 | 8/25/2023 | 8:15 | See transducer reading | 21615497 | y | 447.26 | y | h | | AB |
| 22D | HEN_22&D | 8/22/2023 | 8:00 | See transducer reading | 21564134 | y | 447.57 | y | h | | AB |
| 23 | HEN_23 | 8/22/2023 | 10:40 | See transducer reading | 21615600 | y | 447.92 | y | h | | AB |
| 27 | HEN_27 | 8/24/2023 | 8:20 | See transducer reading | 21615576 | y | 447.77 | y | h | | CT |
| 32 | HEN_32 | 8/22/2023 | 10:35 | See transducer reading | 21615487 | y | 447.64 | y | h | | CT |



SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All DTWs on SAR-4 form may be collected at anytime during the sampling event.

Plant: HEN
Event: HEN-23Q3 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 downloaded? | Batt (H/M/L) | | |
| 34 | HEN_34 | 8/25/2023 | 10:53 | See transducer reading | 21615509 | y | 440.58 | y | h | Replaced battery 8/25/23 | CT |
| 35 | HEN_35 | 8/24/2023 | 9:30 | See transducer reading | 21615510 | y | 447.64 | y | h | | CT |
| 46 | HEN_46 | 8/23/2023 | 8:10 | See transducer reading | 21615491 | y | 448.28 | y | h | | AB |
| 47 | HEN_47 | 8/23/2023 | 14:55 | See transducer reading | 21615505 | y | 447.94 | y | h | | AB |
| 49 | HEN_49 | 8/25/2023 | 9:25 | 19.65 | 21615490 | y | N/A | n | h | Replaced battery, issues connecting to hobo link, manually gauged well. | AB |
| 50 | HEN_50 | 8/25/2023 | 10:55 | See transducer reading | 21615489 | y | -0.03 | y | h | | AB |
| 51 | HEN_51 | 8/22/2023 | 15:00 | See transducer reading | 21615608 | y | 447.74 | y | h | | AB |
| 52 | HEN_52 | 8/24/2023 | 9:05 | See transducer reading | 21615145 | y | 448.12 | y | h | | AB |
| 54 | HEN_54 | 8/23/2023 | 13:00 | See transducer reading | 21615143 | y | 448.03 | y | h | | AB |
| 55 | HEN_55 | 8/23/2023 | 12:55 | See transducer reading | 21615612 | y | corrupted file | y | h | Data was downloaded, data did not save correctly/ corrupt | AB |

U: 6/21/23 GKJ



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ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Voelker
Vistra Energy Corp
133 S 4th, Suite 206
Springfield, Illinois 62701
Generated 10/11/2023 6:27:15 PM

JOB DESCRIPTION

HEN-23Q3
SDG NUMBER HEN_SUP_000_0 RAD

JOB NUMBER

500-238579-10

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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Authorized for release by
Carlene McCutcheon, Senior Project Manager
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(708)325-6562



Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Case Narrative | 4 |
| Method Summary | 13 |
| Sample Summary | 14 |
| Client Sample Results | 15 |
| Definitions | 54 |
| QC Association | 55 |
| QC Sample Results | 58 |
| Chronicle | 64 |
| Certification Summary | 74 |
| Chain of Custody | 75 |
| Receipt Checklists | 93 |
| Tracer Carrier Summary | 95 |

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Job ID: 500-238579-10

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-238579-10

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626172:

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

HEN_25 (500-238579-7), HEN_26 (500-238579-8), HEN_26_MS (500-238579-8[MS]), HEN_26_MSD (500-238579-8[MSD]), (LCS 160-626172/2-A) and (MB 160-626172/1-A).

Method 903.0: Radium-226 batch 626178:

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

HEN_XPW01_pore (500-238579-36), HEN_XPW01_pore_EB (500-238579-37), HEN_XPW02_pore (500-238579-38), HEN_XPW02_pore_EB (500-238579-39), HEN_XPW03_pore (500-238579-40), HEN_XPW03_pore_EB (500-238579-41), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626179:

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interference. During preparation the analyst visually noted matrix effects. The data have been reported with this narrative.

HEN_XPW01_pore (500-238579-36).

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_XPW01_pore (500-238579-36), HEN_XPW01_pore_EB (500-238579-37), HEN_XPW02_pore (500-238579-38), HEN_XPW02_pore_EB (500-238579-39), HEN_XPW03_pore (500-238579-40), HEN_XPW03_pore_EB (500-238579-41), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD) .

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_25 (500-238579-7), HEN_26 (500-238579-8), HEN_26_MS (500-238579-8[MS]), HEN_26_MSD (500-238579-8[MSD]), (LCS 160-626177/2-A) and (MB 160-626177/1-A).

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

Narrative

Job Narrative 500-238579-14

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

RAD

Method 903.0: Radium-226 batch 626180:

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

HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626180/2-A) and (MB 160-626180/1-A).

Method 903.0: Radium-226 batch 626172:

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

HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD).

Method 903.0: Radium-226 batch 626178:

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

HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_257_FB (500-238579-42), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626182:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626182/2-A) and (MB 160-626182/1-A).

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_257_FB (500-238579-42), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD).

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD).

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

Narrative

Job Narrative 500-238579-16

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Case Narrative

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

ATTACHMENT B.
Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 903.0: Radium-226 batch 626180:

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

HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626180/2-A) and (MB 160-626180/1-A).

Method 903.0: Radium-226 batch 626172:

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

HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD).

Method 903.0: Radium-226 batch 626178:

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

HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626182:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626182/2-A) and (MB 160-626182/1-A).

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD).

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD).

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

Narrative

Job Narrative 500-238579-18

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626180:

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

Case Narrative

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

ATTACHMENT B.
Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

applied as the Activity Reference Date.

HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626180/2-A) and (MB 160-626180/1-A).

Method 903.0: Radium-226 batch 626172:

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

HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD).

Method 903.0: Radium-226 batch 626178:

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

HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD).

Method 904.0: Radium-228 prep batch 160-626182:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_03R (500-238579-53), HEN_03R_MS (500-238579-53[MS]), HEN_03R_MSD (500-238579-53[MSD]), (LCS 160-626182/2-A) and (MB 160-626182/1-A).

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_18#S (500-238579-51), HEN_45#S (500-238579-56), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD).

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_18&D (500-238579-13), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD).

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

Narrative

Job Narrative 500-238579-2

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626172

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

HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

Method 903.0: Radium-226 batch 626178

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

HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626178/2-A) and (MB 160-626178/1-A)

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626179/2-A) and (MB 160-626179/1-A)

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

Method PrecSep_0:

Method PrecSep-21:

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

Narrative

Job Narrative 500-238579-21

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626180

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

HEN_17-FD (500-238579-60), (LCS 160-626180/2-A), (MB 160-626180/1-A), (500-238579-T-53-A), (500-238579-T-53-B MS) and (500-238579-T-53-C MSD)

Method 903.0: Radium-226 batch 626172

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

HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

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

HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD)

Method 904.0: Radium-228 prep batch 160-626182:

The detection goal was not met for the following sample(s). The samples and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance. Analytical results are reported with the detection limit achieved. HEN_17-FD (500-238579-60)

Method 904.0: Radium-228 prep batch 160-626182:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_17-FD (500-238579-60), (LCS 160-626182/2-A), (MB 160-626182/1-A), (500-238579-T-53-D), (500-238579-T-53-E MS) and (500-238579-T-53-F MSD)

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD)

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

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

Narrative

Job Narrative 500-238579-23

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626180

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

HEN_17-FD (500-238579-60), (LCS 160-626180/2-A), (MB 160-626180/1-A), (500-238579-T-53-A), (500-238579-T-53-B MS) and (500-238579-T-53-C MSD)

Method 903.0: Radium-226 batch 626172

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178

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

HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), 845_803_FB (500-238579-50), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626178/2-A), (MB 160-626178/1-A), (500-238579-N-45-A), (500-238579-N-45-B MS) and (500-238579-N-45-C MSD)

Method 904.0: Radium-228 prep batch 160-626182:

The detection goal was not met for the following sample(s). The samples and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance. Analytical results are reported with the detection limit achieved. HEN_17-FD (500-238579-60)

Method 904.0: Radium-228 prep batch 160-626182:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_17-FD (500-238579-60), (LCS 160-626182/2-A), (MB 160-626182/1-A), (500-238579-T-53-D), (500-238579-T-53-E MS) and (500-238579-T-53-F MSD)

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_08&D (500-238579-32), HEN_08_FD (500-238579-34), 845_803_FB (500-238579-50), HEN_16 (500-238579-58), HEN_17 (500-238579-59), (LCS 160-626179/2-A), (MB 160-626179/1-A), (500-238579-N-45-D), (500-238579-N-45-E MS) and (500-238579-N-45-F MSD)

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_12 (500-238579-15), HEN_13 (500-238579-16), HEN_46 (500-238579-18), HEN_47 (500-238579-19), HEN_54 (500-238579-20), HEN_52 (500-238579-25), HEN_07 (500-238579-28), HEN_08 (500-238579-30), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

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

Narrative

Job Narrative 500-238579-4

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626172

Case Narrative

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

ATTACHMENT B.
Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

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

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

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

HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178

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

HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626178/2-A) and (MB 160-626178/1-A)

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626179/2-A) and (MB 160-626179/1-A)

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_21R (500-238579-1), HEN_22&D (500-238579-2), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

Method PrecSep_0:

Method PrecSep-21:

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

Narrative

Job Narrative 500-238579-6

Receipt

The samples were received on 8/23/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 28 coolers at receipt time were 0.1° C, 0.1° C, 0.2° C, 0.3° C, 0.4° C, 0.5° C, 0.6° C, 0.7° C, 0.8° C, 1.0° C, 1.2° C, 1.2° C, 1.3° C, 1.3° C, 1.3° C, 1.6° C, 1.7° C, 1.7° C, 1.7° C, 1.7° C, 2.0° C, 2.0° C, 2.0° C, 2.8° C, 2.9° C, 2.9° C, 3.0° C and 3.7° C.

RAD

Method 903.0: Radium-226 batch 626172

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

HEN_21R (500-238579-1), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626172/2-A), (MB 160-626172/1-A), (500-238579-N-8-A), (500-238579-N-8-B MS) and (500-238579-N-8-C MSD)

Method 903.0: Radium-226 batch 626178

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is

Case Narrative

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN 16-802-006

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Job ID: 500-238579-10 (Continued)

Laboratory: Eurofins Chicago (Continued)

sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626178/2-A) and (MB 160-626178/1-A)

Method 904.0: Radium-228 prep batch 160-626179:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_34 (500-238579-44), HEN_49 (500-238579-45), HEN_49_MS (500-238579-45[MS]), HEN_49_MSD (500-238579-45[MSD]), HEN_22 (500-238579-46), HEN_50 (500-238579-47), (LCS 160-626179/2-A) and (MB 160-626179/1-A)

Method 904.0: Radium-228 prep batch 160-626177:

Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date. HEN_21R (500-238579-1), HEN_23 (500-238579-3), HEN_23_FD (500-238579-4), HEN_32 (500-238579-5), HEN_51 (500-238579-6), HEN_27 (500-238579-26), HEN_35 (500-238579-27), (LCS 160-626177/2-A), (MB 160-626177/1-A), (500-238579-N-8-D), (500-238579-N-8-E MS) and (500-238579-N-8-F MSD)

Method PrecSep_0:

Method PrecSep-21:

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



Method Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-21-802-006
 SDG: HEN_SUP_000_0 RAD

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

| 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

845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

ATTACHMENT B.
 Job ID: 500-238579-10
 HEN 845 803 006
 SDG: HEN_SUP_000_0 RAD

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

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-------------------|--------|----------------|----------------|
| 500-238579-1 | HEN_21R | Water | 08/22/23 13:45 | 08/23/23 10:00 |
| 500-238579-2 | HEN_22&D | Water | 08/22/23 09:10 | 08/23/23 10:00 |
| 500-238579-3 | HEN_23 | Water | 08/22/23 11:20 | 08/23/23 10:00 |
| 500-238579-4 | HEN_23_FD | Water | 08/22/23 11:20 | 08/23/23 10:00 |
| 500-238579-5 | HEN_32 | Water | 08/22/23 11:15 | 08/23/23 10:00 |
| 500-238579-6 | HEN_51 | Water | 08/22/23 15:56 | 08/23/23 10:00 |
| 500-238579-7 | HEN_25 | Water | 08/22/23 14:30 | 08/23/23 10:00 |
| 500-238579-8 | HEN_26 | Water | 08/22/23 15:35 | 08/23/23 10:00 |
| 500-238579-13 | HEN_18&D | Water | 08/23/23 14:05 | 08/24/23 09:38 |
| 500-238579-15 | HEN_12 | Water | 08/23/23 10:10 | 08/24/23 09:38 |
| 500-238579-16 | HEN_13 | Water | 08/23/23 11:25 | 08/24/23 09:38 |
| 500-238579-18 | HEN_46 | Water | 08/23/23 08:55 | 08/24/23 09:38 |
| 500-238579-19 | HEN_47 | Water | 08/23/23 15:30 | 08/24/23 09:38 |
| 500-238579-20 | HEN_54 | Water | 08/23/23 13:50 | 08/24/23 09:38 |
| 500-238579-25 | HEN_52 | Water | 08/24/23 09:40 | 08/25/23 09:32 |
| 500-238579-26 | HEN_27 | Water | 08/24/23 09:00 | 08/25/23 09:32 |
| 500-238579-27 | HEN_35 | Water | 08/24/23 10:10 | 08/25/23 09:32 |
| 500-238579-28 | HEN_07 | Water | 08/24/23 14:00 | 08/25/23 09:32 |
| 500-238579-30 | HEN_08 | Water | 08/24/23 15:10 | 08/25/23 09:32 |
| 500-238579-32 | HEN_08&D | Water | 08/24/23 12:25 | 08/25/23 09:32 |
| 500-238579-34 | HEN_08_FD | Water | 08/24/23 15:10 | 08/25/23 09:32 |
| 500-238579-36 | HEN_XPW01_pore | Water | 08/24/23 12:15 | 08/25/23 09:32 |
| 500-238579-37 | HEN_XPW01_pore_EB | Water | 08/24/23 12:15 | 08/25/23 09:32 |
| 500-238579-38 | HEN_XPW02_pore | Water | 08/24/23 13:45 | 08/25/23 09:32 |
| 500-238579-39 | HEN_XPW02_pore_EB | Water | 08/24/23 13:45 | 08/25/23 09:32 |
| 500-238579-40 | HEN_XPW03_pore | Water | 08/24/23 15:30 | 08/25/23 09:32 |
| 500-238579-41 | HEN_XPW03_pore_EB | Water | 08/24/23 15:30 | 08/25/23 09:32 |
| 500-238579-42 | HEN_257_FB | Water | 08/25/23 12:00 | 08/25/23 15:00 |
| 500-238579-44 | HEN_34 | Water | 08/25/23 11:25 | 08/25/23 15:00 |
| 500-238579-45 | HEN_49 | Water | 08/25/23 10:05 | 08/25/23 15:00 |
| 500-238579-46 | HEN_22 | Water | 08/25/23 08:50 | 08/25/23 15:00 |
| 500-238579-47 | HEN_50 | Water | 08/25/23 11:25 | 08/25/23 15:00 |
| 500-238579-50 | 845_803_FB | Water | 08/28/23 12:00 | 08/28/23 15:00 |
| 500-238579-51 | HEN_18#S | Water | 08/28/23 08:35 | 08/28/23 15:00 |
| 500-238579-53 | HEN_03R | Water | 08/28/23 09:45 | 08/28/23 15:00 |
| 500-238579-56 | HEN_45#S | Water | 08/28/23 11:15 | 08/28/23 15:00 |
| 500-238579-58 | HEN_16 | Water | 08/28/23 08:35 | 08/28/23 15:00 |
| 500-238579-59 | HEN_17 | Water | 08/28/23 09:40 | 08/28/23 15:00 |
| 500-238579-60 | HEN_17-FD | Water | 08/28/23 09:40 | 08/28/23 15:00 |



Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_21R
Date Collected: 08/22/23 13:45
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-1
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.614 | | 0.187 | 0.195 | 1.00 | 0.167 | pCi/L | 08/31/23 10:39 | 09/25/23 09:27 | 1 |
| Radium-226 | 0.614 | | 0.187 | 0.195 | 1.00 | 0.167 | pCi/L | 08/31/23 10:39 | 09/25/23 09:27 | 1 |
| Radium-226 | 0.614 | | 0.187 | 0.195 | 1.00 | 0.167 | pCi/L | 08/31/23 10:39 | 09/25/23 09:27 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.1 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:27 | 1 |
| Ba Carrier | 90.1 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:27 | 1 |
| Ba Carrier | 90.1 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:27 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.209 | U | 0.489 | 0.489 | 1.00 | 0.855 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.209 | U | 0.489 | 0.489 | 1.00 | 0.855 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.209 | U | 0.489 | 0.489 | 1.00 | 0.855 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 90.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 90.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 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 | 0.823 | U | 0.524 | 0.526 | 5.00 | 0.855 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.823 | U | 0.524 | 0.526 | 5.00 | 0.855 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.823 | U | 0.524 | 0.526 | 5.00 | 0.855 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_22&D

Lab Sample ID: 500-238579-2

Date Collected: 08/22/23 09:10

Matrix: Water

Date Received: 08/23/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.710 | | 0.165 | 0.177 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.710 | | 0.165 | 0.177 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:28 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.548 | U | 0.400 | 0.404 | 1.00 | 0.611 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.548 | U | 0.400 | 0.404 | 1.00 | 0.611 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.26 | | 0.433 | 0.441 | 5.00 | 0.611 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 1.26 | | 0.433 | 0.441 | 5.00 | 0.611 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-002
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_23

Lab Sample ID: 500-238579-3

Date Collected: 08/22/23 11:20

Matrix: Water

Date Received: 08/23/23 10:00

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|--------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.0778 | U | 0.0660 | 0.0664 | 1.00 | 0.0940 | pCi/L | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.0778 | U | 0.0660 | 0.0664 | 1.00 | 0.0940 | pCi/L | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.0778 | U | 0.0660 | 0.0664 | 1.00 | 0.0940 | pCi/L | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.5 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| Ba Carrier | 96.5 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:28 | 1 |
| Ba Carrier | 96.5 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:28 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.177 | U | 0.379 | 0.379 | 1.00 | 0.658 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.177 | U | 0.379 | 0.379 | 1.00 | 0.658 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.177 | U | 0.379 | 0.379 | 1.00 | 0.658 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.5 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 96.5 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 96.5 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 78.9 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 78.9 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 78.9 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.255 | U | 0.385 | 0.385 | 5.00 | 0.658 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.255 | U | 0.385 | 0.385 | 5.00 | 0.658 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.255 | U | 0.385 | 0.385 | 5.00 | 0.658 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_23_FD
Date Collected: 08/22/23 11:20
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-4
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.0729 | U | 0.0738 | 0.0741 | 1.00 | 0.115 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Radium-226 | 0.0729 | U | 0.0738 | 0.0741 | 1.00 | 0.115 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Radium-226 | 0.0729 | U | 0.0738 | 0.0741 | 1.00 | 0.115 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.0 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Ba Carrier | 94.0 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Ba Carrier | 94.0 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.118 | U | 0.314 | 0.314 | 1.00 | 0.558 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.118 | U | 0.314 | 0.314 | 1.00 | 0.558 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.118 | U | 0.314 | 0.314 | 1.00 | 0.558 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.0 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 94.0 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 94.0 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 80.0 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 80.0 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 80.0 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.191 | U | 0.323 | 0.323 | 5.00 | 0.558 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.191 | U | 0.323 | 0.323 | 5.00 | 0.558 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.191 | U | 0.323 | 0.323 | 5.00 | 0.558 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_32
Date Collected: 08/22/23 11:15
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-5
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.0898 | U | 0.0943 | 0.0947 | 1.00 | 0.151 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Radium-226 | 0.0898 | U | 0.0943 | 0.0947 | 1.00 | 0.151 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Radium-226 | 0.0898 | U | 0.0943 | 0.0947 | 1.00 | 0.151 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Ba Carrier | 92.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Ba Carrier | 92.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.225 | U | 0.373 | 0.373 | 1.00 | 0.636 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.225 | U | 0.373 | 0.373 | 1.00 | 0.636 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.225 | U | 0.373 | 0.373 | 1.00 | 0.636 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 92.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 92.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 92.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 78.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 78.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 78.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.315 | U | 0.385 | 0.385 | 5.00 | 0.636 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.315 | U | 0.385 | 0.385 | 5.00 | 0.636 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.315 | U | 0.385 | 0.385 | 5.00 | 0.636 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_51
Date Collected: 08/22/23 15:56
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-6
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.712 | | 0.206 | 0.216 | 1.00 | 0.192 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Radium-226 | 0.712 | | 0.206 | 0.216 | 1.00 | 0.192 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Radium-226 | 0.712 | | 0.206 | 0.216 | 1.00 | 0.192 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.323 | U | 0.445 | 0.446 | 1.00 | 0.746 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.323 | U | 0.445 | 0.446 | 1.00 | 0.746 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.323 | U | 0.445 | 0.446 | 1.00 | 0.746 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 82.2 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 82.2 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 82.2 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.03 | | 0.490 | 0.496 | 5.00 | 0.746 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 1.03 | | 0.490 | 0.496 | 5.00 | 0.746 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 1.03 | | 0.490 | 0.496 | 5.00 | 0.746 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_25
Date Collected: 08/22/23 14:30
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-7
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.124 | U | 0.0917 | 0.0924 | 1.00 | 0.132 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.5 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0383 | U | 0.333 | 0.333 | 1.00 | 0.610 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.5 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 79.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 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 | 0.162 | U | 0.345 | 0.346 | 5.00 | 0.610 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_26
Date Collected: 08/22/23 15:35
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-8
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.306 | | 0.132 | 0.134 | 1.00 | 0.159 | pCi/L | 08/31/23 10:39 | 09/25/23 09:34 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.6 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:34 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.320 | U | 0.304 | 0.306 | 1.00 | 0.654 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 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 | 0.306 | U | 0.331 | 0.334 | 5.00 | 0.654 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 Q45 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-18-000006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_18&D

Lab Sample ID: 500-238579-13

Date Collected: 08/23/23 14:05

Matrix: Water

Date Received: 08/24/23 09:38

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 | 0.141 | | 0.0860 | 0.0870 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Radium-226 | 0.141 | | 0.0860 | 0.0870 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Radium-226 | 0.141 | | 0.0860 | 0.0870 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:35 | 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 | 0.208 | U | 0.357 | 0.357 | 1.00 | 0.611 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.208 | U | 0.357 | 0.357 | 1.00 | 0.611 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.208 | U | 0.357 | 0.357 | 1.00 | 0.611 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 80.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 80.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 80.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.349 | U | 0.367 | 0.367 | 5.00 | 0.611 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.349 | U | 0.367 | 0.367 | 5.00 | 0.611 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.349 | U | 0.367 | 0.367 | 5.00 | 0.611 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_12

Lab Sample ID: 500-238579-15

Date Collected: 08/23/23 10:10

Matrix: Water

Date Received: 08/24/23 09:38

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.0183 | U | 0.0574 | 0.0574 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Radium-226 | 0.0183 | U | 0.0574 | 0.0574 | 1.00 | 0.110 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Ba Carrier | 95.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:35 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.273 | U | 0.439 | 0.440 | 1.00 | 0.743 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.273 | U | 0.439 | 0.440 | 1.00 | 0.743 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 95.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 80.0 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 80.0 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.291 | U | 0.443 | 0.444 | 5.00 | 0.743 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.291 | U | 0.443 | 0.444 | 5.00 | 0.743 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_13
Date Collected: 08/23/23 11:25
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-16
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.0389 | U | 0.0708 | 0.0709 | 1.00 | 0.126 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Radium-226 | 0.0389 | U | 0.0708 | 0.0709 | 1.00 | 0.126 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.4 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Ba Carrier | 85.4 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:35 | 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 | 0.0984 | U | 0.357 | 0.357 | 1.00 | 0.643 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.0984 | U | 0.357 | 0.357 | 1.00 | 0.643 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 85.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 85.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 77.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 77.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 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 | 0.137 | U | 0.364 | 0.364 | 5.00 | 0.643 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.137 | U | 0.364 | 0.364 | 5.00 | 0.643 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_46
Date Collected: 08/23/23 08:55
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-18
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.0922 | U | 0.0796 | 0.0800 | 1.00 | 0.118 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Radium-226 | 0.0922 | U | 0.0796 | 0.0800 | 1.00 | 0.118 | pCi/L | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.1 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:35 | 1 |
| Ba Carrier | 90.1 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:35 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.462 | U | 0.366 | 0.368 | 1.00 | 0.563 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Radium-228 | 0.462 | U | 0.366 | 0.368 | 1.00 | 0.563 | pCi/L | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 90.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Ba Carrier | 90.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 80.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |
| Y Carrier | 80.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:23 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.554 | U | 0.375 | 0.377 | 5.00 | 0.563 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.554 | U | 0.375 | 0.377 | 5.00 | 0.563 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_47

Lab Sample ID: 500-238579-19

Date Collected: 08/23/23 15:30

Matrix: Water

Date Received: 08/24/23 09:38

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.125 | U | 0.0906 | 0.0913 | 1.00 | 0.129 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.125 | U | 0.0906 | 0.0913 | 1.00 | 0.129 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.0500 | U | 0.314 | 0.314 | 1.00 | 0.578 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.0500 | U | 0.314 | 0.314 | 1.00 | 0.578 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 79.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 79.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.175 | U | 0.327 | 0.327 | 5.00 | 0.578 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.175 | U | 0.327 | 0.327 | 5.00 | 0.578 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-002
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_54
Date Collected: 08/23/23 13:50
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-20
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.161 | | 0.112 | 0.113 | 1.00 | 0.160 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.161 | | 0.112 | 0.113 | 1.00 | 0.160 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 91.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.0451 | U | 0.356 | 0.356 | 1.00 | 0.649 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.0451 | U | 0.356 | 0.356 | 1.00 | 0.649 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 91.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 79.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 79.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.206 | U | 0.373 | 0.374 | 5.00 | 0.649 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.206 | U | 0.373 | 0.374 | 5.00 | 0.649 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_52
Date Collected: 08/24/23 09:40
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-25
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.143 | | 0.0996 | 0.100 | 1.00 | 0.143 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.143 | | 0.0996 | 0.100 | 1.00 | 0.143 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.6 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 89.6 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.336 | U | 0.377 | 0.379 | 1.00 | 0.616 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.336 | U | 0.377 | 0.379 | 1.00 | 0.616 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 89.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 74.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 74.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.479 | U | 0.390 | 0.392 | 5.00 | 0.616 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.479 | U | 0.390 | 0.392 | 5.00 | 0.616 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_27
Date Collected: 08/24/23 09:00
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-26
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.131 | U | 0.0948 | 0.0956 | 1.00 | 0.137 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.131 | U | 0.0948 | 0.0956 | 1.00 | 0.137 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.131 | U | 0.0948 | 0.0956 | 1.00 | 0.137 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.3 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 95.3 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 95.3 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | -0.0486 | U | 0.306 | 0.306 | 1.00 | 0.589 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.0486 | U | 0.306 | 0.306 | 1.00 | 0.589 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.0486 | U | 0.306 | 0.306 | 1.00 | 0.589 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 95.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 95.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 79.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 79.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 79.3 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.131 | U | 0.320 | 0.321 | 5.00 | 0.589 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.131 | U | 0.320 | 0.321 | 5.00 | 0.589 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.131 | U | 0.320 | 0.321 | 5.00 | 0.589 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-002-002
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_35

Lab Sample ID: 500-238579-27

Date Collected: 08/24/23 10:10

Matrix: Water

Date Received: 08/25/23 09:32

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.0626 | U | 0.0710 | 0.0712 | 1.00 | 0.114 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.0626 | U | 0.0710 | 0.0712 | 1.00 | 0.114 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.0626 | U | 0.0710 | 0.0712 | 1.00 | 0.114 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.235 | U | 0.369 | 0.370 | 1.00 | 0.626 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.235 | U | 0.369 | 0.370 | 1.00 | 0.626 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.235 | U | 0.369 | 0.370 | 1.00 | 0.626 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 82.2 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 82.2 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 82.2 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.297 | U | 0.376 | 0.377 | 5.00 | 0.626 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.297 | U | 0.376 | 0.377 | 5.00 | 0.626 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.297 | U | 0.376 | 0.377 | 5.00 | 0.626 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_07
Date Collected: 08/24/23 14:00
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-28
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.311 | | 0.119 | 0.122 | 1.00 | 0.121 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.311 | | 0.119 | 0.122 | 1.00 | 0.121 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.311 | | 0.119 | 0.122 | 1.00 | 0.121 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.311 | | 0.119 | 0.122 | 1.00 | 0.121 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.311 | | 0.119 | 0.122 | 1.00 | 0.121 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 88.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 88.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 88.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 88.8 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.170 | U | 0.371 | 0.371 | 1.00 | 0.647 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.170 | U | 0.371 | 0.371 | 1.00 | 0.647 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.170 | U | 0.371 | 0.371 | 1.00 | 0.647 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.170 | U | 0.371 | 0.371 | 1.00 | 0.647 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | 0.170 | U | 0.371 | 0.371 | 1.00 | 0.647 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 88.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 88.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 88.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 88.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 88.8 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 77.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 77.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 77.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 77.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 77.4 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.481 | U | 0.390 | 0.391 | 5.00 | 0.647 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.481 | U | 0.390 | 0.391 | 5.00 | 0.647 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.481 | U | 0.390 | 0.391 | 5.00 | 0.647 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.481 | U | 0.390 | 0.391 | 5.00 | 0.647 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.481 | U | 0.390 | 0.391 | 5.00 | 0.647 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_08
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-30
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.241 | | 0.108 | 0.110 | 1.00 | 0.125 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.241 | | 0.108 | 0.110 | 1.00 | 0.125 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.241 | | 0.108 | 0.110 | 1.00 | 0.125 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.241 | | 0.108 | 0.110 | 1.00 | 0.125 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Radium-226 | 0.241 | | 0.108 | 0.110 | 1.00 | 0.125 | pCi/L | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:36 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | -0.128 | U | 0.280 | 0.280 | 1.00 | 0.572 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.128 | U | 0.280 | 0.280 | 1.00 | 0.572 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.128 | U | 0.280 | 0.280 | 1.00 | 0.572 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.128 | U | 0.280 | 0.280 | 1.00 | 0.572 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Radium-228 | -0.128 | U | 0.280 | 0.280 | 1.00 | 0.572 | pCi/L | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 10:56 | 09/19/23 12:24 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.241 | U | 0.300 | 0.301 | 5.00 | 0.572 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.241 | U | 0.300 | 0.301 | 5.00 | 0.572 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.241 | U | 0.300 | 0.301 | 5.00 | 0.572 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.241 | U | 0.300 | 0.301 | 5.00 | 0.572 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.241 | U | 0.300 | 0.301 | 5.00 | 0.572 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_08&D

Lab Sample ID: 500-238579-32

Date Collected: 08/24/23 12:25

Matrix: Water

Date Received: 08/25/23 09:32

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 | 0.162 | | 0.107 | 0.108 | 1.00 | 0.145 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Radium-226 | 0.162 | | 0.107 | 0.108 | 1.00 | 0.145 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Radium-226 | 0.162 | | 0.107 | 0.108 | 1.00 | 0.145 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Radium-226 | 0.162 | | 0.107 | 0.108 | 1.00 | 0.145 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Radium-226 | 0.162 | | 0.107 | 0.108 | 1.00 | 0.145 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:49 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:49 | 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 | 0.411 | U | 0.348 | 0.350 | 1.00 | 0.543 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.411 | U | 0.348 | 0.350 | 1.00 | 0.543 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.411 | U | 0.348 | 0.350 | 1.00 | 0.543 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.411 | U | 0.348 | 0.350 | 1.00 | 0.543 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.411 | U | 0.348 | 0.350 | 1.00 | 0.543 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.573 | | 0.364 | 0.366 | 5.00 | 0.543 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.573 | | 0.364 | 0.366 | 5.00 | 0.543 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.573 | | 0.364 | 0.366 | 5.00 | 0.543 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.573 | | 0.364 | 0.366 | 5.00 | 0.543 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.573 | | 0.364 | 0.366 | 5.00 | 0.543 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

945 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_08_FD

Lab Sample ID: 500-238579-34

Date Collected: 08/24/23 15:10

Matrix: Water

Date Received: 08/25/23 09:32

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 | 0.434 | | 0.153 | 0.158 | 1.00 | 0.148 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Radium-226 | 0.434 | | 0.153 | 0.158 | 1.00 | 0.148 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Radium-226 | 0.434 | | 0.153 | 0.158 | 1.00 | 0.148 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Radium-226 | 0.434 | | 0.153 | 0.158 | 1.00 | 0.148 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Radium-226 | 0.434 | | 0.153 | 0.158 | 1.00 | 0.148 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:50 | 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 | 0.470 | U | 0.399 | 0.401 | 1.00 | 0.629 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.470 | U | 0.399 | 0.401 | 1.00 | 0.629 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.470 | U | 0.399 | 0.401 | 1.00 | 0.629 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.470 | U | 0.399 | 0.401 | 1.00 | 0.629 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Radium-228 | 0.470 | U | 0.399 | 0.401 | 1.00 | 0.629 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Ba Carrier | 91.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 85.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 85.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 85.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 85.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 85.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.904 | | 0.427 | 0.431 | 5.00 | 0.629 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.904 | | 0.427 | 0.431 | 5.00 | 0.629 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.904 | | 0.427 | 0.431 | 5.00 | 0.629 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.904 | | 0.427 | 0.431 | 5.00 | 0.629 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.904 | | 0.427 | 0.431 | 5.00 | 0.629 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-24-802-006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_XPW01_pore

Lab Sample ID: 500-238579-36

Date Collected: 08/24/23 12:15

Matrix: Water

Date Received: 08/25/23 09:32

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 | 0.299 | 0.299 | 1.00 | 0.558 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 30.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:50 | 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 | 1.40 | U G | 1.38 | 1.39 | 1.00 | 2.22 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 30.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 85.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|------|-------|----------|----------------|---------|
| Radium 226 and 228 | 1.51 | U | 1.41 | 1.42 | 5.00 | 2.22 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-24-802-006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_XPW01_pore_EB

Lab Sample ID: 500-238579-37

Date Collected: 08/24/23 12:15

Matrix: Water

Date Received: 08/25/23 09:32

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 | 0.00189 | U | 0.0740 | 0.0740 | 1.00 | 0.149 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:50 | 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 | -0.00858 | U | 0.262 | 0.262 | 1.00 | 0.498 | pCi/L | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |
| Y Carrier | 87.5 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:11 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.00189 | U | 0.272 | 0.272 | 5.00 | 0.498 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-24-802-006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_XPW02_pore

Lab Sample ID: 500-238579-38

Date Collected: 08/24/23 13:45

Matrix: Water

Date Received: 08/25/23 09:32

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.131 | U | 0.144 | 0.144 | 1.00 | 0.232 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:50 | 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 | 0.293 | U | 0.399 | 0.400 | 1.00 | 0.670 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 83.7 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.424 | U | 0.424 | 0.425 | 5.00 | 0.670 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-24-802-006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_XPW02_pore_EB

Lab Sample ID: 500-238579-39

Date Collected: 08/24/23 13:45

Matrix: Water

Date Received: 08/25/23 09:32

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 | 0.188 | | 0.119 | 0.120 | 1.00 | 0.161 | pCi/L | 08/31/23 10:58 | 09/22/23 18:50 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 18:50 | 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 | -0.257 | U | 0.283 | 0.284 | 1.00 | 0.600 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.1 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 83.4 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.188 | U | 0.307 | 0.308 | 5.00 | 0.600 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-24-802-006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_XPW03_pore

Lab Sample ID: 500-238579-40

Date Collected: 08/24/23 15:30

Matrix: Water

Date Received: 08/25/23 09:32

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 | 0.0406 | U | 0.0691 | 0.0692 | 1.00 | 0.119 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.5 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 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 | 0.376 | U | 0.399 | 0.401 | 1.00 | 0.650 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 94.5 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 81.5 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.417 | U | 0.405 | 0.407 | 5.00 | 0.650 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-24-802-006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_XPW03_pore_EB

Lab Sample ID: 500-238579-41

Date Collected: 08/24/23 15:30

Matrix: Water

Date Received: 08/25/23 09:32

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 | 0.0195 | U | 0.0635 | 0.0636 | 1.00 | 0.114 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.5 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 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 | 0.187 | U | 0.374 | 0.375 | 1.00 | 0.645 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.5 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 81.5 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.207 | U | 0.379 | 0.380 | 5.00 | 0.645 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_257_FB

Lab Sample ID: 500-238579-42

Date Collected: 08/25/23 12:00

Matrix: Water

Date Received: 08/25/23 15:00

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|--------|-------|----------------|----------------|---------|
| Radium-226 | 0.0356 | U | 0.0546 | 0.0547 | 1.00 | 0.0932 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.0 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 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 | 0.202 | U | 0.296 | 0.297 | 1.00 | 0.501 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.0 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 83.4 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.238 | U | 0.301 | 0.302 | 5.00 | 0.501 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_34
Date Collected: 08/25/23 11:25
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-44
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 | 0.324 | | 0.0935 | 0.0980 | 1.00 | 0.0946 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Radium-226 | 0.324 | | 0.0935 | 0.0980 | 1.00 | 0.0946 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Radium-226 | 0.324 | | 0.0935 | 0.0980 | 1.00 | 0.0946 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.0 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Ba Carrier | 99.0 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Ba Carrier | 99.0 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 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 | 0.499 | U | 0.371 | 0.374 | 1.00 | 0.569 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Radium-228 | 0.499 | U | 0.371 | 0.374 | 1.00 | 0.569 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Radium-228 | 0.499 | U | 0.371 | 0.374 | 1.00 | 0.569 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.0 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Ba Carrier | 99.0 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Ba Carrier | 99.0 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 82.6 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.823 | | 0.383 | 0.387 | 5.00 | 0.569 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.823 | | 0.383 | 0.387 | 5.00 | 0.569 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.823 | | 0.383 | 0.387 | 5.00 | 0.569 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_49
Date Collected: 08/25/23 10:05
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-45
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 | 0.235 | | 0.0893 | 0.0918 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Radium-226 | 0.235 | | 0.0893 | 0.0918 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Radium-226 | 0.235 | | 0.0893 | 0.0918 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 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 | 0.558 | | 0.363 | 0.366 | 1.00 | 0.535 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Radium-228 | 0.558 | | 0.363 | 0.366 | 1.00 | 0.535 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Radium-228 | 0.558 | | 0.363 | 0.366 | 1.00 | 0.535 | pCi/L | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Ba Carrier | 91.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 84.9 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 84.9 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |
| Y Carrier | 84.9 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:13 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.793 | | 0.374 | 0.377 | 5.00 | 0.535 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.793 | | 0.374 | 0.377 | 5.00 | 0.535 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.793 | | 0.374 | 0.377 | 5.00 | 0.535 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_22

Lab Sample ID: 500-238579-46

Date Collected: 08/25/23 08:50

Matrix: Water

Date Received: 08/25/23 15:00

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.0944 | U | 0.0710 | 0.0715 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Radium-226 | 0.0944 | U | 0.0710 | 0.0715 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Radium-226 | 0.0944 | U | 0.0710 | 0.0715 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.0 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Ba Carrier | 96.0 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 1 |
| Ba Carrier | 96.0 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/22/23 21:06 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.238 | U | 0.297 | 0.297 | 1.00 | 0.492 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.238 | U | 0.297 | 0.297 | 1.00 | 0.492 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.238 | U | 0.297 | 0.297 | 1.00 | 0.492 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 96.0 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Ba Carrier | 96.0 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Ba Carrier | 96.0 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 86.7 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 86.7 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 86.7 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.333 | U | 0.305 | 0.305 | 5.00 | 0.492 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.333 | U | 0.305 | 0.305 | 5.00 | 0.492 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.333 | U | 0.305 | 0.305 | 5.00 | 0.492 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_50
Date Collected: 08/25/23 11:25
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-47
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 | 0.289 | | 0.107 | 0.110 | 1.00 | 0.100 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Radium-226 | 0.289 | | 0.107 | 0.110 | 1.00 | 0.100 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Radium-226 | 0.289 | | 0.107 | 0.110 | 1.00 | 0.100 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.0 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Ba Carrier | 95.0 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Ba Carrier | 95.0 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:25 | 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 | 0.463 | U | 0.355 | 0.357 | 1.00 | 0.545 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.463 | U | 0.355 | 0.357 | 1.00 | 0.545 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.463 | U | 0.355 | 0.357 | 1.00 | 0.545 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 95.0 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Ba Carrier | 95.0 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Ba Carrier | 95.0 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 84.1 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 84.1 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 84.1 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.752 | | 0.371 | 0.374 | 5.00 | 0.545 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.752 | | 0.371 | 0.374 | 5.00 | 0.545 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.752 | | 0.371 | 0.374 | 5.00 | 0.545 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23-803-006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: 845_803_FB

Lab Sample ID: 500-238579-50

Date Collected: 08/28/23 12:00

Matrix: Water

Date Received: 08/28/23 15:00

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.00967 | U | 0.0532 | 0.0532 | 1.00 | 0.107 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:25 | 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 | -0.0520 | U | 0.256 | 0.256 | 1.00 | 0.504 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 97.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 83.7 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|---------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.00967 | U | 0.261 | 0.261 | 5.00 | 0.504 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23-000006
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_18#S

Lab Sample ID: 500-238579-51

Date Collected: 08/28/23 08:35

Matrix: Water

Date Received: 08/28/23 15:00

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.000 | U | 0.0558 | 0.0558 | 1.00 | 0.117 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Radium-226 | 0.000 | U | 0.0558 | 0.0558 | 1.00 | 0.117 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Radium-226 | 0.000 | U | 0.0558 | 0.0558 | 1.00 | 0.117 | pCi/L | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Ba Carrier | 93.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:25 | 1 |
| Ba Carrier | 93.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:25 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.245 | U | 0.311 | 0.312 | 1.00 | 0.517 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.245 | U | 0.311 | 0.312 | 1.00 | 0.517 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.245 | U | 0.311 | 0.312 | 1.00 | 0.517 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Ba Carrier | 93.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Ba Carrier | 93.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.245 | U | 0.316 | 0.317 | 5.00 | 0.517 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.245 | U | 0.316 | 0.317 | 5.00 | 0.517 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.245 | U | 0.316 | 0.317 | 5.00 | 0.517 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_03R
Date Collected: 08/28/23 09:45
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-53
Matrix: Water

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.0552 | U | 0.0678 | 0.0680 | 1.00 | 0.111 | pCi/L | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Radium-226 | 0.0552 | U | 0.0678 | 0.0680 | 1.00 | 0.111 | pCi/L | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Radium-226 | 0.0552 | U | 0.0678 | 0.0680 | 1.00 | 0.111 | pCi/L | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.3 | | 30 - 110 | | | | | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Ba Carrier | 89.3 | | 30 - 110 | | | | | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Ba Carrier | 89.3 | | 30 - 110 | | | | | 08/31/23 11:10 | 09/25/23 09:22 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | -0.414 | U | 0.360 | 0.362 | 1.00 | 0.821 | pCi/L | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Radium-228 | -0.414 | U | 0.360 | 0.362 | 1.00 | 0.821 | pCi/L | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Radium-228 | -0.414 | U | 0.360 | 0.362 | 1.00 | 0.821 | pCi/L | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 89.3 | | 30 - 110 | | | | | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Ba Carrier | 89.3 | | 30 - 110 | | | | | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Ba Carrier | 89.3 | | 30 - 110 | | | | | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Y Carrier | 84.5 | | 30 - 110 | | | | | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Y Carrier | 84.5 | | 30 - 110 | | | | | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Y Carrier | 84.5 | | 30 - 110 | | | | | 08/31/23 11:15 | 09/18/23 15:35 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.0552 | U | 0.366 | 0.368 | 5.00 | 0.821 | pCi/L | | 09/26/23 15:38 | 1 |
| Radium 226 and 228 | 0.0552 | U | 0.366 | 0.368 | 5.00 | 0.821 | pCi/L | | 09/26/23 15:38 | 1 |
| Radium 226 and 228 | 0.0552 | U | 0.366 | 0.368 | 5.00 | 0.821 | pCi/L | | 09/26/23 15:38 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_45#S

Lab Sample ID: 500-238579-56

Date Collected: 08/28/23 11:15

Matrix: Water

Date Received: 08/28/23 15:00

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | 0.226 | | 0.117 | 0.119 | 1.00 | 0.133 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.226 | | 0.117 | 0.119 | 1.00 | 0.133 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.226 | | 0.117 | 0.119 | 1.00 | 0.133 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:28 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.297 | U | 0.409 | 0.410 | 1.00 | 0.687 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.297 | U | 0.409 | 0.410 | 1.00 | 0.687 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.297 | U | 0.409 | 0.410 | 1.00 | 0.687 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 81.9 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

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

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------|----------------|---------|
| Radium 226 and 228 | 0.522 | U | 0.425 | 0.427 | 5.00 | 0.687 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.522 | U | 0.425 | 0.427 | 5.00 | 0.687 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.522 | U | 0.425 | 0.427 | 5.00 | 0.687 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_16

Lab Sample ID: 500-238579-58

Date Collected: 08/28/23 08:35

Matrix: Water

Date Received: 08/28/23 15:00

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|--------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.0461 | U | 0.0589 | 0.0591 | 1.00 | 0.0975 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.0461 | U | 0.0589 | 0.0591 | 1.00 | 0.0975 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Ba Carrier | 99.3 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:28 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.460 | U | 0.343 | 0.345 | 1.00 | 0.522 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Radium-228 | 0.460 | U | 0.343 | 0.345 | 1.00 | 0.522 | pCi/L | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 99.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Ba Carrier | 99.3 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 83.4 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |
| Y Carrier | 83.4 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:17 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|-------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.506 | U | 0.348 | 0.350 | 5.00 | 0.522 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.506 | U | 0.348 | 0.350 | 5.00 | 0.522 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_17
Date Collected: 08/28/23 09:40
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-59
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 | 0.0741 | U | 0.0682 | 0.0685 | 1.00 | 0.101 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Radium-226 | 0.0741 | U | 0.0682 | 0.0685 | 1.00 | 0.101 | pCi/L | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:28 | 1 |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 10:58 | 09/25/23 09:28 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-228 | 0.136 | U | 0.327 | 0.327 | 1.00 | 0.574 | pCi/L | 08/31/23 11:08 | 09/19/23 12:18 | 1 |
| Radium-228 | 0.136 | U | 0.327 | 0.327 | 1.00 | 0.574 | pCi/L | 08/31/23 11:08 | 09/19/23 12:18 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:18 | 1 |
| Ba Carrier | 93.5 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:18 | 1 |
| Y Carrier | 83.4 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:18 | 1 |
| Y Carrier | 83.4 | | 30 - 110 | | | | | 08/31/23 11:08 | 09/19/23 12:18 | 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 | 0.210 | U | 0.334 | 0.334 | 5.00 | 0.574 | pCi/L | | 09/27/23 15:51 | 1 |
| Radium 226 and 228 | 0.210 | U | 0.334 | 0.334 | 5.00 | 0.574 | pCi/L | | 09/27/23 15:51 | 1 |

Client Sample Results

ATTACHMENT B.
 945 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Client Sample ID: HEN_17-FD

Lab Sample ID: 500-238579-60

Date Collected: 08/28/23 09:40

Matrix: Water

Date Received: 08/28/23 15:00

Method: EPA 903.0 - Radium-226 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|-------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-226 | 0.0774 | U | 0.0770 | 0.0773 | 1.00 | 0.121 | pCi/L | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Radium-226 | 0.0774 | U | 0.0770 | 0.0773 | 1.00 | 0.121 | pCi/L | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.1 | | 30 - 110 | | | | | 08/31/23 11:10 | 09/25/23 09:22 | 1 |
| Ba Carrier | 91.1 | | 30 - 110 | | | | | 08/31/23 11:10 | 09/25/23 09:22 | 1 |

Method: EPA 904.0 - Radium-228 (GFPC)

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------|-----------|----------|---------|------|------|-------|----------------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium-228 | 0.809 | U G | 0.691 | 0.695 | 1.00 | 1.09 | pCi/L | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Radium-228 | 0.809 | U G | 0.691 | 0.695 | 1.00 | 1.09 | pCi/L | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Carrier | %Yield | Qualifier | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | 91.1 | | 30 - 110 | | | | | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Ba Carrier | 91.1 | | 30 - 110 | | | | | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Y Carrier | 77.8 | | 30 - 110 | | | | | 08/31/23 11:15 | 09/18/23 15:35 | 1 |
| Y Carrier | 77.8 | | 30 - 110 | | | | | 08/31/23 11:15 | 09/18/23 15:35 | 1 |

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

| Analyte | Result | Qualifier | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|--------------------|--------|-----------|---------|---------|------|------|-------|----------|----------------|---------|
| | | | Uncert. | Uncert. | | | | | | |
| | | | (2σ+/-) | (2σ+/-) | | | | | | |
| Radium 226 and 228 | 0.886 | U | 0.695 | 0.699 | 5.00 | 1.09 | pCi/L | | 09/26/23 15:38 | 1 |
| Radium 226 and 228 | 0.886 | U | 0.695 | 0.699 | 5.00 | 1.09 | pCi/L | | 09/26/23 15:38 | 1 |

Definitions/Glossary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Job ID: 500-238579-10
HEN-23Q3
SDG: HEN_SUP_000_0 RAD

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

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 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
HE 0415802006
SDG: HEN_SUP_000_0 RAD

Rad

Prep Batch: 626172

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 500-238579-1 | HEN_21R | Total/NA | Water | PrecSep-21 | |
| 500-238579-2 | HEN_22&D | Total/NA | Water | PrecSep-21 | |
| 500-238579-3 | HEN_23 | Total/NA | Water | PrecSep-21 | |
| 500-238579-4 | HEN_23_FD | Total/NA | Water | PrecSep-21 | |
| 500-238579-5 | HEN_32 | Total/NA | Water | PrecSep-21 | |
| 500-238579-6 | HEN_51 | Total/NA | Water | PrecSep-21 | |
| 500-238579-7 | HEN_25 | Total/NA | Water | PrecSep-21 | |
| 500-238579-8 | HEN_26 | Total/NA | Water | PrecSep-21 | |
| 500-238579-13 | HEN_18&D | Total/NA | Water | PrecSep-21 | |
| 500-238579-15 | HEN_12 | Total/NA | Water | PrecSep-21 | |
| 500-238579-16 | HEN_13 | Total/NA | Water | PrecSep-21 | |
| 500-238579-18 | HEN_46 | Total/NA | Water | PrecSep-21 | |
| 500-238579-19 | HEN_47 | Total/NA | Water | PrecSep-21 | |
| 500-238579-20 | HEN_54 | Total/NA | Water | PrecSep-21 | |
| 500-238579-25 | HEN_52 | Total/NA | Water | PrecSep-21 | |
| 500-238579-26 | HEN_27 | Total/NA | Water | PrecSep-21 | |
| 500-238579-27 | HEN_35 | Total/NA | Water | PrecSep-21 | |
| 500-238579-28 | HEN_07 | Total/NA | Water | PrecSep-21 | |
| 500-238579-30 | HEN_08 | Total/NA | Water | PrecSep-21 | |
| MB 160-626172/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-626172/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| 500-238579-8 MS | HEN_26_MS | Total/NA | Water | PrecSep-21 | |
| 500-238579-8 MSD | HEN_26_MSD | Total/NA | Water | PrecSep-21 | |

Prep Batch: 626177

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 500-238579-1 | HEN_21R | Total/NA | Water | PrecSep_0 | |
| 500-238579-2 | HEN_22&D | Total/NA | Water | PrecSep_0 | |
| 500-238579-3 | HEN_23 | Total/NA | Water | PrecSep_0 | |
| 500-238579-4 | HEN_23_FD | Total/NA | Water | PrecSep_0 | |
| 500-238579-5 | HEN_32 | Total/NA | Water | PrecSep_0 | |
| 500-238579-6 | HEN_51 | Total/NA | Water | PrecSep_0 | |
| 500-238579-7 | HEN_25 | Total/NA | Water | PrecSep_0 | |
| 500-238579-8 | HEN_26 | Total/NA | Water | PrecSep_0 | |
| 500-238579-13 | HEN_18&D | Total/NA | Water | PrecSep_0 | |
| 500-238579-15 | HEN_12 | Total/NA | Water | PrecSep_0 | |
| 500-238579-16 | HEN_13 | Total/NA | Water | PrecSep_0 | |
| 500-238579-18 | HEN_46 | Total/NA | Water | PrecSep_0 | |
| 500-238579-19 | HEN_47 | Total/NA | Water | PrecSep_0 | |
| 500-238579-20 | HEN_54 | Total/NA | Water | PrecSep_0 | |
| 500-238579-25 | HEN_52 | Total/NA | Water | PrecSep_0 | |
| 500-238579-26 | HEN_27 | Total/NA | Water | PrecSep_0 | |
| 500-238579-27 | HEN_35 | Total/NA | Water | PrecSep_0 | |
| 500-238579-28 | HEN_07 | Total/NA | Water | PrecSep_0 | |
| 500-238579-30 | HEN_08 | Total/NA | Water | PrecSep_0 | |
| MB 160-626177/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-626177/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| 500-238579-8 MS | HEN_26_MS | Total/NA | Water | PrecSep_0 | |
| 500-238579-8 MSD | HEN_26_MSD | Total/NA | Water | PrecSep_0 | |

QC Association Summary

845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 HEN-23Q3

ATTACHMENT B.
 Job ID: 500-238579-10
 SDG: HEN_SUP_000_0 RAD

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

Rad

Prep Batch: 626178

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 500-238579-32 | HEN_08&D | Total/NA | Water | PrecSep-21 | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | PrecSep-21 | |
| 500-238579-36 | HEN_XPW01_pore | Total/NA | Water | PrecSep-21 | |
| 500-238579-37 | HEN_XPW01_pore_EB | Total/NA | Water | PrecSep-21 | |
| 500-238579-38 | HEN_XPW02_pore | Total/NA | Water | PrecSep-21 | |
| 500-238579-39 | HEN_XPW02_pore_EB | Total/NA | Water | PrecSep-21 | |
| 500-238579-40 | HEN_XPW03_pore | Total/NA | Water | PrecSep-21 | |
| 500-238579-41 | HEN_XPW03_pore_EB | Total/NA | Water | PrecSep-21 | |
| 500-238579-42 | HEN_257_FB | Total/NA | Water | PrecSep-21 | |
| 500-238579-44 | HEN_34 | Total/NA | Water | PrecSep-21 | |
| 500-238579-45 | HEN_49 | Total/NA | Water | PrecSep-21 | |
| 500-238579-46 | HEN_22 | Total/NA | Water | PrecSep-21 | |
| 500-238579-47 | HEN_50 | Total/NA | Water | PrecSep-21 | |
| 500-238579-50 | 845_803_FB | Total/NA | Water | PrecSep-21 | |
| 500-238579-51 | HEN_18#S | Total/NA | Water | PrecSep-21 | |
| 500-238579-56 | HEN_45#S | Total/NA | Water | PrecSep-21 | |
| 500-238579-58 | HEN_16 | Total/NA | Water | PrecSep-21 | |
| 500-238579-59 | HEN_17 | Total/NA | Water | PrecSep-21 | |
| MB 160-626178/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-626178/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| 500-238579-45 MS | HEN_49_MS | Total/NA | Water | PrecSep-21 | |
| 500-238579-45 MSD | HEN_49_MSD | Total/NA | Water | PrecSep-21 | |

Prep Batch: 626179

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 500-238579-32 | HEN_08&D | Total/NA | Water | PrecSep_0 | |
| 500-238579-34 | HEN_08_FD | Total/NA | Water | PrecSep_0 | |
| 500-238579-36 | HEN_XPW01_pore | Total/NA | Water | PrecSep_0 | |
| 500-238579-37 | HEN_XPW01_pore_EB | Total/NA | Water | PrecSep_0 | |
| 500-238579-38 | HEN_XPW02_pore | Total/NA | Water | PrecSep_0 | |
| 500-238579-39 | HEN_XPW02_pore_EB | Total/NA | Water | PrecSep_0 | |
| 500-238579-40 | HEN_XPW03_pore | Total/NA | Water | PrecSep_0 | |
| 500-238579-41 | HEN_XPW03_pore_EB | Total/NA | Water | PrecSep_0 | |
| 500-238579-42 | HEN_257_FB | Total/NA | Water | PrecSep_0 | |
| 500-238579-44 | HEN_34 | Total/NA | Water | PrecSep_0 | |
| 500-238579-45 | HEN_49 | Total/NA | Water | PrecSep_0 | |
| 500-238579-46 | HEN_22 | Total/NA | Water | PrecSep_0 | |
| 500-238579-47 | HEN_50 | Total/NA | Water | PrecSep_0 | |
| 500-238579-50 | 845_803_FB | Total/NA | Water | PrecSep_0 | |
| 500-238579-51 | HEN_18#S | Total/NA | Water | PrecSep_0 | |
| 500-238579-56 | HEN_45#S | Total/NA | Water | PrecSep_0 | |
| 500-238579-58 | HEN_16 | Total/NA | Water | PrecSep_0 | |
| 500-238579-59 | HEN_17 | Total/NA | Water | PrecSep_0 | |
| MB 160-626179/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-626179/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| 500-238579-45 MS | HEN_49_MS | Total/NA | Water | PrecSep_0 | |
| 500-238579-45 MSD | HEN_49_MSD | Total/NA | Water | PrecSep_0 | |

Prep Batch: 626180

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 500-238579-53 | HEN_03R | Total/NA | Water | PrecSep-21 | |

QC Association Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-002
 SDG: HEN_SUP_000_0 RAD

Rad (Continued)

Prep Batch: 626180 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|------------|------------|
| 500-238579-60 | HEN_17-FD | Total/NA | Water | PrecSep-21 | |
| MB 160-626180/1-A | Method Blank | Total/NA | Water | PrecSep-21 | |
| LCS 160-626180/2-A | Lab Control Sample | Total/NA | Water | PrecSep-21 | |
| 500-238579-53 MS | HEN_03R_MS | Total/NA | Water | PrecSep-21 | |
| 500-238579-53 MSD | HEN_03R_MSD | Total/NA | Water | PrecSep-21 | |

Prep Batch: 626182

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 500-238579-53 | HEN_03R | Total/NA | Water | PrecSep_0 | |
| 500-238579-60 | HEN_17-FD | Total/NA | Water | PrecSep_0 | |
| MB 160-626182/1-A | Method Blank | Total/NA | Water | PrecSep_0 | |
| LCS 160-626182/2-A | Lab Control Sample | Total/NA | Water | PrecSep_0 | |
| 500-238579-53 MS | HEN_03R_MS | Total/NA | Water | PrecSep_0 | |
| 500-238579-53 MSD | HEN_03R_MSD | Total/NA | Water | PrecSep_0 | |



QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-626172/1-A
 Matrix: Water
 Analysis Batch: 629490

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626172

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|------|--------|-------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.03516 | U | 0.0558 | 0.0559 | 1.00 | 0.0976 | pCi/L | 08/31/23 10:39 | 09/25/23 09:27 | 1 |
| Carrier | MB | | Limits | | | | | Prepared | Analyzed | Dil Fac |
| Ba Carrier | %Yield | Qualifier | 30 - 110 | | | | | 08/31/23 10:39 | 09/25/23 09:27 | 1 |
| | 89.8 | | | | | | | | | |

Lab Sample ID: LCS 160-626172/2-A
 Matrix: Water
 Analysis Batch: 629490

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626172

| Analyte | Spike Added | LCS Result | LCS Qual | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|-------------|------------|----------|-----------------|------|-------|-------|------|-------------|
| | | | | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 11.3 | 10.33 | | 1.10 | 1.00 | 0.102 | pCi/L | 91 | 75 - 125 |
| Carrier | LCS | LCS | Limits | | | | | | |
| Ba Carrier | %Yield | Qualifier | 30 - 110 | | | | | | |
| | 93.1 | | | | | | | | |

Lab Sample ID: 500-238579-8 MS
 Matrix: Water
 Analysis Batch: 629491

Client Sample ID: HEN_26_MS
 Prep Type: Total/NA
 Prep Batch: 626172

| Analyte | Sample | Sample | Spike | MS | MS | Total | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|--------|-----------|----------|--------|------|-----------------|------|-------|-------|------|-------------|
| | Result | Qual | Added | Result | Qual | Uncert. (2σ+/-) | | | | | |
| Radium-226 | 0.306 | | 11.3 | 10.96 | | 1.17 | 1.00 | 0.112 | pCi/L | 95 | 60 - 140 |
| Carrier | MS | MS | Limits | | | | | | | | |
| Ba Carrier | %Yield | Qualifier | 30 - 110 | | | | | | | | |
| | 84.4 | | | | | | | | | | |

Lab Sample ID: 500-238579-8 MSD
 Matrix: Water
 Analysis Batch: 629491

Client Sample ID: HEN_26_MSD
 Prep Type: Total/NA
 Prep Batch: 626172

| Analyte | Sample | Sample | Spike | MSD | MSD | Total | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|------------|--------|-----------|----------|--------|------|-----------------|------|-------|-------|------|-------------|------|-----------|
| | Result | Qual | Added | Result | Qual | Uncert. (2σ+/-) | | | | | | | |
| Radium-226 | 0.306 | | 11.4 | 10.84 | | 1.16 | 1.00 | 0.121 | pCi/L | 92 | 60 - 140 | 0.05 | 1 |
| Carrier | MSD | MSD | Limits | | | | | | | | | | |
| Ba Carrier | %Yield | Qualifier | 30 - 110 | | | | | | | | | | |
| | 88.3 | | | | | | | | | | | | |

Lab Sample ID: MB 160-626178/1-A
 Matrix: Water
 Analysis Batch: 629278

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626178

| Analyte | MB | | Count | Total | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|---------|-----------|-----------------|-----------------|------|-------|-------|----------------|----------------|---------|
| | Result | Qualifier | Uncert. (2σ+/-) | Uncert. (2σ+/-) | | | | | | |
| Radium-226 | 0.01063 | U | 0.0857 | 0.0857 | 1.00 | 0.166 | pCi/L | 08/31/23 10:58 | 09/22/23 18:49 | 1 |

QC Sample Results

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

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

Lab Sample ID: MB 160-626178/1-A
 Matrix: Water
 Analysis Batch: 629278

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626178

| Carrier | MB %Yield | MB Qualifier | Limits |
|------------|--------------|-----------------|----------|
| Ba Carrier | 99.3 | | 30 - 110 |

| Prepared | Analyzed | Dil Fac |
|----------------|----------------|---------|
| 08/31/23 10:58 | 09/22/23 18:49 | 1 |

Lab Sample ID: LCS 160-626178/2-A
 Matrix: Water
 Analysis Batch: 629278

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626178

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|----------------|---------------|-------------|-----------------------------|------|-------|-------|------|----------------|
| Radium-226 | 11.3 | 10.95 | | 1.19 | 1.00 | 0.166 | pCi/L | 97 | 75 - 125 |

| Carrier | LCS %Yield | LCS Qualifier | Limits |
|------------|---------------|------------------|----------|
| Ba Carrier | 100 | | 30 - 110 |

Lab Sample ID: 500-238579-45 MS
 Matrix: Water
 Analysis Batch: 629278

Client Sample ID: HEN_49_MS
 Prep Type: Total/NA
 Prep Batch: 626178

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits |
|------------|------------------|----------------|----------------|--------------|------------|-----------------------------|------|-------|-------|------|----------------|
| Radium-226 | 0.235 | | 11.4 | 11.42 | | 1.13 | 1.00 | 0.107 | pCi/L | 99 | 60 - 140 |

| Carrier | MS %Yield | MS Qualifier | Limits |
|------------|--------------|-----------------|----------|
| Ba Carrier | 90.6 | | 30 - 110 |

Lab Sample ID: 500-238579-45 MSD
 Matrix: Water
 Analysis Batch: 629278

Client Sample ID: HEN_49_MSD
 Prep Type: Total/NA
 Prep Batch: 626178

| 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 | 0.235 | | 11.4 | 10.73 | | 1.08 | 1.00 | 0.133 | pCi/L | 92 | 60 - 140 | 0.31 | 1 |

| Carrier | MSD %Yield | MSD Qualifier | Limits |
|------------|---------------|------------------|----------|
| Ba Carrier | 87.1 | | 30 - 110 |

Lab Sample ID: MB 160-626180/1-A
 Matrix: Water
 Analysis Batch: 629275

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626180

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|------------|--------------|-----------------|-----------------------------|-----------------------------|------|-------|-------|----------------|----------------|---------|
| Radium-226 | -0.02184 | U | 0.0535 | 0.0535 | 1.00 | 0.128 | pCi/L | 08/31/23 11:10 | 09/22/23 14:34 | 1 |

| Carrier | MB %Yield | MB Qualifier | Limits |
|------------|--------------|-----------------|----------|
| Ba Carrier | 94.8 | | 30 - 110 |

| Prepared | Analyzed | Dil Fac |
|----------------|----------------|---------|
| 08/31/23 11:10 | 09/22/23 14:34 | 1 |

QC Sample Results

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 Job ID: 500-238579-10
 HEN-23Q3
 SDG: HEN_SUP_000_0 RAD

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

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

Lab Sample ID: LCS 160-626180/2-A
 Matrix: Water
 Analysis Batch: 629275

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626180

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | |
|----------------|---------------|------------------|---------------|-----------------------|------|-------|-------|------|-------------|-----|--|
| | | | | | | | | | 75 | 125 | |
| Radium-226 | 11.3 | 10.99 | | 1.18 | 1.00 | 0.129 | pCi/L | 97 | 75 | 125 | |
| | | LCS | LCS | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | | |
| Ba Carrier | 94.0 | | 30 - 110 | | | | | | | | |

Lab Sample ID: 500-238579-53 MS
 Matrix: Water
 Analysis Batch: 629490

Client Sample ID: HEN_03R_MS
 Prep Type: Total/NA
 Prep Batch: 626180

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | |
|----------------|---------------|------------------|---------------|-----------|---------|-----------------------|------|-------|-------|------|-------------|-----|
| | | | | | | | | | | | 60 | 140 |
| Radium-226 | 0.0552 | U | 11.4 | 10.03 | | 1.07 | 1.00 | 0.110 | pCi/L | 88 | 60 | 140 |
| | | MS | MS | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | | | |
| Ba Carrier | 90.3 | | 30 - 110 | | | | | | | | | |

Lab Sample ID: 500-238579-53 MSD
 Matrix: Water
 Analysis Batch: 629490

Client Sample ID: HEN_03R_MSD
 Prep Type: Total/NA
 Prep Batch: 626180

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | RER | Limit |
|----------------|---------------|------------------|---------------|------------|----------|-----------------------|------|-------|-------|------|-------------|-----|------|-------|
| | | | | | | | | | | | 60 | 140 | 0.39 | 1 |
| Radium-226 | 0.0552 | U | 11.4 | 10.90 | | 1.15 | 1.00 | 0.147 | pCi/L | 95 | 60 | 140 | 0.39 | 1 |
| | | MSD | MSD | | | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | | | | | | | | | | | |
| Ba Carrier | 94.8 | | 30 - 110 | | | | | | | | | | | |

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-626177/1-A
 Matrix: Water
 Analysis Batch: 628708

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626177

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | | Analyzed | | Dil Fac |
|----------------|---------------|------------------|-----------------------|-----------------------|------|-----------------|-------|----------------|----------------|----------------|-------|---------|
| | | | | | | | | 08/31/23 10:56 | 09/19/23 12:22 | 09/19/23 12:22 | 12:22 | 1 |
| Radium-228 | 0.5950 | U | 0.421 | 0.425 | 1.00 | 0.643 | pCi/L | 08/31/23 10:56 | 09/19/23 12:22 | 09/19/23 12:22 | 12:22 | 1 |
| | | MB | MB | | | | | | | | | |
| Carrier | %Yield | Qualifier | Limits | Prepared | | Analyzed | | Dil Fac | | | | |
| Ba Carrier | 89.8 | | 30 - 110 | 08/31/23 10:56 | | 09/19/23 12:22 | | 09/19/23 12:22 | | 1 | | |
| Y Carrier | 85.2 | | 30 - 110 | 08/31/23 10:56 | | 09/19/23 12:22 | | 09/19/23 12:22 | | 1 | | |

QC Sample Results

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

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

Lab Sample ID: LCS 160-626177/2-A
 Matrix: Water
 Analysis Batch: 628708

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626177

| Analyte | Spike Added | LCS | | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits |
|----------------|---------------|------------|------------|-----------------------|---------------|-------|-------|------|-------------|
| | | Result | Qual | | | | | | |
| Radium-228 | 7.86 | 8.916 | | 1.27 | 1.00 | 0.622 | pCi/L | 113 | 75 - 125 |
| Carrier | %Yield | LCS | LCS | Qualifier | Limits | | | | |
| Ba Carrier | 93.1 | | | | 30 - 110 | | | | |
| Y Carrier | 84.1 | | | | 30 - 110 | | | | |

Lab Sample ID: 500-238579-8 MS
 Matrix: Water
 Analysis Batch: 628708

Client Sample ID: HEN_26_MS
 Prep Type: Total/NA
 Prep Batch: 626177

| Analyte | Sample Result | Sample Qual | Spike Added | MS | | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits |
|----------------|---------------|-------------|-------------|------------------|---------------|-----------------------|------|-------|-------|------|-------------|
| | | | | Result | Qual | | | | | | |
| Radium-228 | -0.320 | U | 7.81 | 9.721 | | 1.43 | 1.00 | 0.665 | pCi/L | 124 | 60 - 140 |
| Carrier | %Yield | MS | MS | Qualifier | Limits | | | | | | |
| Ba Carrier | 84.4 | | | | 30 - 110 | | | | | | |
| Y Carrier | 77.0 | | | | 30 - 110 | | | | | | |

Lab Sample ID: 500-238579-8 MSD
 Matrix: Water
 Analysis Batch: 628708

Client Sample ID: HEN_26_MSD
 Prep Type: Total/NA
 Prep Batch: 626177

| Analyte | Sample Result | Sample Qual | Spike Added | MSD | | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | RER | RER Limit |
|----------------|---------------|-------------|-------------|------------------|---------------|-----------------------|------|-------|-------|------|-------------|------|-----------|
| | | | | Result | Qual | | | | | | | | |
| Radium-228 | -0.320 | U | 7.91 | 9.754 | | 1.42 | 1.00 | 0.783 | pCi/L | 123 | 60 - 140 | 0.01 | 1 |
| Carrier | %Yield | MSD | MSD | Qualifier | Limits | | | | | | | | |
| Ba Carrier | 88.3 | | | | 30 - 110 | | | | | | | | |
| Y Carrier | 81.9 | | | | 30 - 110 | | | | | | | | |

Lab Sample ID: MB 160-626179/1-A
 Matrix: Water
 Analysis Batch: 628698

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626179

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | Analyzed | Dil Fac |
|----------------|---------------|--------------|-----------------------|-----------------------|---------------|-----------------|-----------------|----------------|----------|---------|
| | | | | | | | | | | |
| Carrier | %Yield | MB | MB | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| Ba Carrier | 99.3 | | | | 30 - 110 | 08/31/23 11:08 | 09/19/23 12:10 | 1 | | |
| Y Carrier | 82.2 | | | | 30 - 110 | 08/31/23 11:08 | 09/19/23 12:10 | 1 | | |

QC Sample Results

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

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

Lab Sample ID: LCS 160-626179/2-A
 Matrix: Water
 Analysis Batch: 628698

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626179

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | |
|----------------|---------------|------------------|---------------|-----------------------|------|-------|-------|------|-------------|-----|
| | | | | | | | | | 75 | 125 |
| Radium-228 | 7.86 | 8.022 | | 1.13 | 1.00 | 0.476 | pCi/L | 102 | 75 | 125 |
| Carrier | | | | | | | | | | |
| | %Yield | Qualifier | Limits | | | | | | | |
| Ba Carrier | 100 | | 30 - 110 | | | | | | | |
| Y Carrier | 87.5 | | 30 - 110 | | | | | | | |

Lab Sample ID: 500-238579-45 MS
 Matrix: Water
 Analysis Batch: 628698

Client Sample ID: HEN_49_MS
 Prep Type: Total/NA
 Prep Batch: 626179

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | |
|----------------|---------------|------------------|---------------|-----------|---------|-----------------------|------|-------|-------|------|-------------|-----|
| | | | | | | | | | | | 60 | 140 |
| Radium-228 | 0.558 | | 7.88 | 8.928 | | 1.30 | 1.00 | 0.617 | pCi/L | 106 | 60 | 140 |
| Carrier | | | | | | | | | | | | |
| | %Yield | Qualifier | Limits | | | | | | | | | |
| Ba Carrier | 90.6 | | 30 - 110 | | | | | | | | | |
| Y Carrier | 79.6 | | 30 - 110 | | | | | | | | | |

Lab Sample ID: 500-238579-45 MSD
 Matrix: Water
 Analysis Batch: 628698

Client Sample ID: HEN_49_MSD
 Prep Type: Total/NA
 Prep Batch: 626179

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | RER | Limit |
|----------------|---------------|------------------|---------------|------------|----------|-----------------------|------|-------|-------|------|-------------|-----|------|-------|
| | | | | | | | | | | | 60 | 140 | 0.01 | 1 |
| Radium-228 | 0.558 | | 7.91 | 8.905 | | 1.29 | 1.00 | 0.616 | pCi/L | 105 | 60 | 140 | 0.01 | 1 |
| Carrier | | | | | | | | | | | | | | |
| | %Yield | Qualifier | Limits | | | | | | | | | | | |
| Ba Carrier | 87.1 | | 30 - 110 | | | | | | | | | | | |
| Y Carrier | 84.1 | | 30 - 110 | | | | | | | | | | | |

Lab Sample ID: MB 160-626182/1-A
 Matrix: Water
 Analysis Batch: 628632

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 626182

| Analyte | MB Result | MB Qualifier | Count Uncert. (2σ+/-) | Total Uncert. (2σ+/-) | RL | MDC | Unit | Prepared | | Analyzed | | Dil Fac |
|----------------|---------------|------------------|-----------------------|-----------------------|------|-------|-------|----------------|----------------|----------------|----------------|---------|
| | | | | | | | | 08/31/23 11:15 | 09/18/23 12:29 | 09/18/23 12:29 | 09/18/23 12:29 | 1 |
| Radium-228 | 0.08319 | U | 0.303 | 0.304 | 1.00 | 0.545 | pCi/L | 08/31/23 11:15 | 09/18/23 12:29 | 09/18/23 12:29 | 09/18/23 12:29 | 1 |
| Carrier | | | | | | | | | | | | |
| | %Yield | Qualifier | Limits | | | | | | | | | |
| Ba Carrier | 94.8 | | 30 - 110 | | | | | | | | | |
| Y Carrier | 90.8 | | 30 - 110 | | | | | | | | | |

QC Sample Results

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

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

Lab Sample ID: LCS 160-626182/2-A
 Matrix: Water
 Analysis Batch: 628632

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 626182

| Analyte | Spike Added | LCS Result | LCS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | | | | | | | | | | | | |
|---|-------------|---------------|----------|-----------------------|------|-------|-------|------|-------------|-----|---------|------------|---------------|--------|------------|------|--|----------|-----------|------|--|----------|
| | | | | | | | | | 75 | 125 | | | | | | | | | | | | |
| Radium-228 | 7.87 | 8.699 | | 1.26 | 1.00 | 0.571 | pCi/L | 111 | 75 | 125 | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Carrier</th> <th>LCS %Yield</th> <th>LCS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>94.0</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>81.5</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table> | | | | | | | | | | | Carrier | LCS %Yield | LCS Qualifier | Limits | Ba Carrier | 94.0 | | 30 - 110 | Y Carrier | 81.5 | | 30 - 110 |
| Carrier | LCS %Yield | LCS Qualifier | Limits | | | | | | | | | | | | | | | | | | | |
| Ba Carrier | 94.0 | | 30 - 110 | | | | | | | | | | | | | | | | | | | |
| Y Carrier | 81.5 | | 30 - 110 | | | | | | | | | | | | | | | | | | | |

Lab Sample ID: 500-238579-53 MS
 Matrix: Water
 Analysis Batch: 628632

Client Sample ID: HEN_03R_MS
 Prep Type: Total/NA
 Prep Batch: 626182

| Analyte | Sample Result | Sample Qual | Spike Added | MS Result | MS Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | | | | | | | | | | | | |
|---|---------------|--------------|-------------|-----------|---------|-----------------------|------|-------|-------|------|-------------|-----|---------|-----------|--------------|--------|------------|------|--|----------|-----------|------|--|----------|
| | | | | | | | | | | | 60 | 140 | | | | | | | | | | | | |
| Radium-228 | -0.414 | U | 7.89 | 8.647 | | 1.46 | 1.00 | 0.860 | pCi/L | 110 | 60 | 140 | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Carrier</th> <th>MS %Yield</th> <th>MS Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>90.3</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>80.0</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table> | | | | | | | | | | | | | Carrier | MS %Yield | MS Qualifier | Limits | Ba Carrier | 90.3 | | 30 - 110 | Y Carrier | 80.0 | | 30 - 110 |
| Carrier | MS %Yield | MS Qualifier | Limits | | | | | | | | | | | | | | | | | | | | | |
| Ba Carrier | 90.3 | | 30 - 110 | | | | | | | | | | | | | | | | | | | | | |
| Y Carrier | 80.0 | | 30 - 110 | | | | | | | | | | | | | | | | | | | | | |

Lab Sample ID: 500-238579-53 MSD
 Matrix: Water
 Analysis Batch: 628632

Client Sample ID: HEN_03R_MSD
 Prep Type: Total/NA
 Prep Batch: 626182

| Analyte | Sample Result | Sample Qual | Spike Added | MSD Result | MSD Qual | Total Uncert. (2σ+/-) | RL | MDC | Unit | %Rec | %Rec Limits | | RER | RER Limit | | | | | | | | | | | | |
|---|---------------|---------------|-------------|------------|----------|-----------------------|------|-------|-------|------|-------------|-----|------|-----------|---------|------------|---------------|--------|------------|------|--|----------|-----------|------|--|----------|
| | | | | | | | | | | | 60 | 140 | 0.15 | 1 | | | | | | | | | | | | |
| Radium-228 | -0.414 | U | 7.91 | 8.231 | | 1.33 | 1.00 | 0.739 | pCi/L | 104 | 60 | 140 | 0.15 | 1 | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Carrier</th> <th>MSD %Yield</th> <th>MSD Qualifier</th> <th>Limits</th> </tr> </thead> <tbody> <tr> <td>Ba Carrier</td> <td>94.8</td> <td></td> <td>30 - 110</td> </tr> <tr> <td>Y Carrier</td> <td>89.3</td> <td></td> <td>30 - 110</td> </tr> </tbody> </table> | | | | | | | | | | | | | | | Carrier | MSD %Yield | MSD Qualifier | Limits | Ba Carrier | 94.8 | | 30 - 110 | Y Carrier | 89.3 | | 30 - 110 |
| Carrier | MSD %Yield | MSD Qualifier | Limits | | | | | | | | | | | | | | | | | | | | | | | |
| Ba Carrier | 94.8 | | 30 - 110 | | | | | | | | | | | | | | | | | | | | | | | |
| Y Carrier | 89.3 | | 30 - 110 | | | | | | | | | | | | | | | | | | | | | | | |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
HEN-23-802908
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_21R
Date Collected: 08/22/23 13:45
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-1
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:27 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_22&D
Date Collected: 08/22/23 09:10
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-2
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:28 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_23
Date Collected: 08/22/23 11:20
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-3
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:28 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_23_FD
Date Collected: 08/22/23 11:20
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-4
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:34 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
HEN-23-802-002
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_32
Date Collected: 08/22/23 11:15
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-5
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:34 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_51
Date Collected: 08/22/23 15:56
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-6
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:34 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_25
Date Collected: 08/22/23 14:30
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-7
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:34 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_26
Date Collected: 08/22/23 15:35
Date Received: 08/23/23 10:00

Lab Sample ID: 500-238579-8
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:34 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
HEN-23-802-008
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_18&D

Lab Sample ID: 500-238579-13

Date Collected: 08/23/23 14:05

Matrix: Water

Date Received: 08/24/23 09:38

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:35 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_12

Lab Sample ID: 500-238579-15

Date Collected: 08/23/23 10:10

Matrix: Water

Date Received: 08/24/23 09:38

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:35 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_13

Lab Sample ID: 500-238579-16

Date Collected: 08/23/23 11:25

Matrix: Water

Date Received: 08/24/23 09:38

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:35 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_46

Lab Sample ID: 500-238579-18

Date Collected: 08/23/23 08:55

Matrix: Water

Date Received: 08/24/23 09:38

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Batch Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:35 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:23 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
HEN-23-802-006
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_47
Date Collected: 08/23/23 15:30
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-19
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_54
Date Collected: 08/23/23 13:50
Date Received: 08/24/23 09:38

Lab Sample ID: 500-238579-20
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629491 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_52
Date Collected: 08/24/23 09:40
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-25
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629493 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_27
Date Collected: 08/24/23 09:00
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-26
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629493 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_35
Date Collected: 08/24/23 10:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-27
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629493 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_07
Date Collected: 08/24/23 14:00
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-28
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629493 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_08
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-30
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626172 | KAC | EET SL | 08/31/23 10:39 |
| Total/NA | Analysis | 903.0 | | 1 | 629493 | FLC | EET SL | 09/25/23 09:36 |
| Total/NA | Prep | PrecSep_0 | | | 626177 | KAC | EET SL | 08/31/23 10:56 |
| Total/NA | Analysis | 904.0 | | 1 | 628709 | SCB | EET SL | 09/19/23 12:24 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_08&D
Date Collected: 08/24/23 12:25
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-32
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:49 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:11 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_08_FD
Date Collected: 08/24/23 15:10
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-34
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:50 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:11 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_XPW01_pore
Date Collected: 08/24/23 12:15
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-36
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:50 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:11 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_XPW01_pore_EB
Date Collected: 08/24/23 12:15
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-37
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:50 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:11 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_XPW02_pore
Date Collected: 08/24/23 13:45
Date Received: 08/25/23 09:32

Lab Sample ID: 500-238579-38
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:50 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_XPW02_pore_EB

Lab Sample ID: 500-238579-39

Date Collected: 08/24/23 13:45

Matrix: Water

Date Received: 08/25/23 09:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 18:50 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_XPW03_pore

Lab Sample ID: 500-238579-40

Date Collected: 08/24/23 15:30

Matrix: Water

Date Received: 08/25/23 09:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_XPW03_pore_EB

Lab Sample ID: 500-238579-41

Date Collected: 08/24/23 15:30

Matrix: Water

Date Received: 08/25/23 09:32

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_257_FB

Lab Sample ID: 500-238579-42

Date Collected: 08/25/23 12:00

Matrix: Water

Date Received: 08/25/23 15:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
HEN-23-802-006
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_34
Date Collected: 08/25/23 11:25
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-44
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_49
Date Collected: 08/25/23 10:05
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-45
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:13 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_22
Date Collected: 08/25/23 08:50
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-46
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629278 | SCB | EET SL | 09/22/23 21:06 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_50
Date Collected: 08/25/23 11:25
Date Received: 08/25/23 15:00

Lab Sample ID: 500-238579-47
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:25 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
SDG: HEN_SUP_000_0 RAD

Client Sample ID: 845_803_FB

Lab Sample ID: 500-238579-50

Date Collected: 08/28/23 12:00

Matrix: Water

Date Received: 08/28/23 15:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:25 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_18#S

Lab Sample ID: 500-238579-51

Date Collected: 08/28/23 08:35

Matrix: Water

Date Received: 08/28/23 15:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:25 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_03R

Lab Sample ID: 500-238579-53

Date Collected: 08/28/23 09:45

Matrix: Water

Date Received: 08/28/23 15:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626180 | KAC | EET SL | 08/31/23 11:10 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:22 |
| Total/NA | Prep | PrecSep_0 | | | 626182 | KAC | EET SL | 08/31/23 11:15 |
| Total/NA | Analysis | 904.0 | | 1 | 628632 | SCB | EET SL | 09/18/23 15:35 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629684 | SCB | EET SL | 09/26/23 15:38 |

Client Sample ID: HEN_45#S

Lab Sample ID: 500-238579-56

Date Collected: 08/28/23 11:15

Matrix: Water

Date Received: 08/28/23 15:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:28 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Lab Chronicle

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
HEN-23-802-006
SDG: HEN_SUP_000_0 RAD

Client Sample ID: HEN_16
Date Collected: 08/28/23 08:35
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-58
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:28 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628698 | FLC | EET SL | 09/19/23 12:17 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_17
Date Collected: 08/28/23 09:40
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-59
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626178 | KAC | EET SL | 08/31/23 10:58 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:28 |
| Total/NA | Prep | PrecSep_0 | | | 626179 | KAC | EET SL | 08/31/23 11:08 |
| Total/NA | Analysis | 904.0 | | 1 | 628708 | SCB | EET SL | 09/19/23 12:18 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629874 | EMH | EET SL | 09/27/23 15:51 |

Client Sample ID: HEN_17-FD
Date Collected: 08/28/23 09:40
Date Received: 08/28/23 15:00

Lab Sample ID: 500-238579-60
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|-----------------|-----|-----------------|--------------|---------|--------|----------------------|
| Total/NA | Prep | PrecSep-21 | | | 626180 | KAC | EET SL | 08/31/23 11:10 |
| Total/NA | Analysis | 903.0 | | 1 | 629490 | SCB | EET SL | 09/25/23 09:22 |
| Total/NA | Prep | PrecSep_0 | | | 626182 | KAC | EET SL | 08/31/23 11:15 |
| Total/NA | Analysis | 904.0 | | 1 | 628632 | SCB | EET SL | 09/18/23 15:35 |
| Total/NA | Analysis | Ra226_Ra228 Pos | | 1 | 629684 | SCB | EET SL | 09/26/23 15:38 |

Laboratory References:

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

Accreditation/Certification Summary

ATTACHMENT B.

15 QUARTERLY REPORT - QUARTER 3, 2023

HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

Job ID: 500-238579-10

SDG: HEN_SUP_000_0 RAD

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

Laboratory: Eurofins St. Louis

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Illinois | NELAP | 200023 | 11-30-23 |

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

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



Chain of Custody Record



| Client Information (Sub Contract Lab) | | Lab PM: | Carrier Tracking No(s): | COC No: | | | | | | | | |
|--|-------------|--|------------------------------|--|--------------------|-----------------------------------|----------------------------|----------------|------------------|-----------------|----------------------------|----------------------------|
| Client Contact: Earth City | | McCutcheon, Carlene | | 500-178415.1 | | | | | | | | |
| Shipping/Receiving: MO, 63045 | | E-Mail: Carlene.McCutcheon@et.eurofins.com | State of Origin: Illinois | Page: Page 1 of 2 | | | | | | | | |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-21 | | | | | | | | |
| Address: 13715 Rider Trail North, | | Preservation Codes: | | | | | | | | | | |
| City: Earth City | | A - HCL | | | | | | | | | | |
| State, Zip: MO, 63045 | | B - NaOH | | | | | | | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | C - AsNaO2 | | | | | | | | | | |
| Email: | | D - Zn Acetate | | | | | | | | | | |
| Project Name: HEN-23Q3 | | E - Ni/nic Acid | | | | | | | | | | |
| Site: | | F - NaHSO4 | | | | | | | | | | |
| | | G - MeOH | | | | | | | | | | |
| | | H - Ascorbic Acid | | | | | | | | | | |
| | | I - Ice | | | | | | | | | | |
| | | J - DI Water | | | | | | | | | | |
| | | K - EDTA | | | | | | | | | | |
| | | L - EDA | | | | | | | | | | |
| | | Other: | | | | | | | | | | |
| | | M - Hexane | | | | | | | | | | |
| | | N - None | | | | | | | | | | |
| | | O - AsNaO2 | | | | | | | | | | |
| | | P - Na2O4S | | | | | | | | | | |
| | | Q - Na2SO3 | | | | | | | | | | |
| | | R - Na2S2O3 | | | | | | | | | | |
| | | S - H2SO4 | | | | | | | | | | |
| | | T - TSP Dodecahydrate | | | | | | | | | | |
| | | U - Acetone | | | | | | | | | | |
| | | V - MCAA | | | | | | | | | | |
| | | W - pH 4-5 | | | | | | | | | | |
| | | Y - Trizma | | | | | | | | | | |
| | | Z - other (specify) | | | | | | | | | | |
| | | Total Number of containers | | | | | | | | | | |
| | | Special Instructions/Note: | | | | | | | | | | |
| | | 903.0/PreSep_Z | | | | | | | | | | |
| | | 904.0/PreSep_0 Z | | | | | | | | | | |
| | | R226_Z28GFC_P1Z | | | | | | | | | | |
| | | Field Filtered Sample (Yes or No) | | | | | | | | | | |
| | | Perform MS/MSD (Yes or No) | | | | | | | | | | |
| | | Analysis Requested | | | | | | | | | | |
| | | Due Date Requested: 9/25/2023 | | | | | | | | | | |
| | | TAT Requested (days): | | | | | | | | | | |
| | | PO #: | | | | | | | | | | |
| | | WO #: | | | | | | | | | | |
| | | Project #: | | | | | | | | | | |
| | | 50021987 | | | | | | | | | | |
| | | SSOW#: | | | | | | | | | | |
| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=water/oil, BT=tissue, AA=) | Preservation Code: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PreSep_Z | 904.0/PreSep_0 Z | R226_Z28GFC_P1Z | Total Number of containers | Special Instructions/Note: |
| HEN_12 (500-238579-15) | 8/23/23 | 10:10 Central | | Water | | X | X | X | X | | 2 | |
| HEN_13 (500-238579-16) | 8/23/23 | 11:25 Central | | Water | | X | X | X | X | | 2 | |
| HEN_46 (500-238579-18) | 8/23/23 | 08:55 Central | | Water | | X | X | X | X | | 2 | |
| HEN_47 (500-238579-19) | 8/23/23 | 15:30 Central | | Water | | X | X | X | X | | 2 | |
| HEN_54 (500-238579-20) | 8/23/23 | 13:50 Central | | Water | | X | X | X | X | | 2 | |
| HEN_52 (500-238579-25) | 8/24/23 | 09:40 Central | | Water | | X | X | X | X | | 2 | |
| HEN_07 (500-238579-28) | 8/24/23 | 14:00 Central | | Water | | X | X | X | X | | 2 | |
| HEN_08 (500-238579-30) | 8/24/23 | 15:10 Central | | Water | | X | X | X | X | | 2 | |
| HEN_08&D (500-238579-32) | 8/24/23 | 12:25 Central | | Water | | X | X | X | X | | 2 | |

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Empty Kit Relinquished by: _____ Date: _____
 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: _____

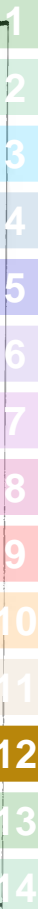
Relinquished by: *Stephanie Hernandez* Date/Time: *8/29/23 15:00* Company: *FEDEX*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: _____

Relinquished by: *Barbara Sharkey - Stone* Date/Time: *8/30/23 09:00* Company: *ETA*
 Relinquished by: _____ Date/Time: _____ Company: _____

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

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



| | | | |
|--|-----------------------|--|----------------------|
| Client Information (Sub Contract Lab) | | Lab PM: McCutcheon, Carlene | Lab No: 500-178415.2 |
| Client Contact: Shipping/Receiving | | E-Mail: Carlene.McCutcheon@et.eurofins.com | Page: Page 2 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | Job #: 500-238579-6 |
| Address: 13715 Rider Trail North, | | State of Origin: Illinois | |
| City: Earth City | State, Zip: MO, 63045 | COC No: 500-178415.2 | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | Page: Page 2 of 2 | |
| Email: | WO #: | Job #: 500-238579-6 | |
| Project Name: HEN-23Q3 | Project #: 50021987 | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) | |
| Site: | SSOW#: | Other: | |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Solid, Other, 81=Trisub, A=Al) | Preservation Code: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PreSep, 21 AF | 904.0/PreSep, 0 AF | Ra226_228GFP_C_P1 AF | Total Number of Containers | Special Instructions/Note: |
|--|-------------|---------------|------------------------------|---|--------------------|-----------------------------------|----------------------------|---------------------|--------------------|----------------------|----------------------------|----------------------------|
| HEN_49_MS (500-238579-45MS) | 8/25/23 | 10:05 Central | MS | Water | | X | X | X | X | | 3 | |
| HEN_49_MSD (500-238579-45MSD) | 8/25/23 | 10:05 Central | MSD | Water | | X | X | X | X | | 3 | |
| HEN_22 (500-238579-46) | 8/25/23 | 08:50 Central | | Water | | X | X | X | X | | 2 | |
| HEN_50 (500-238579-47) | 8/25/23 | 11:25 Central | | Water | | X | X | X | X | | 2 | |

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

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
Empty Kit Relinquished by: _____ Date: _____
Time: _____

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: _____

Method of Shipment: _____
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record



| | | | |
|--|----------------------------------|--|--|
| Client Information (Sub Contract Lab) | | Lab PM: McCUTCHEON, Carlene | Camera Tracking No(s): COC No: 500-178415.1 |
| Client Contact: Shipping/Receiving | | E-Mail: Carlene.McCutcheon@et.eurofins.com | Page: Page 1 of 2 |
| Company: TesAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | |
| Address: 13715 Rider Trail North, | | Job #: 500-238579-4 | |
| City: Earth City | Due Date Requested: 9/14/2023 | Analysis Requested | |
| State, Zip: MO, 63045 | TAT Requested (days): | Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | Other: | |
| Email: | WO #: | | |
| Project Name: HEN-2303 | Project #: 50021987 | | |
| Site: | SSOW#: | | |
| Sample Identification - Client ID (Lab ID) | | Special Instructions/Note: | |
| HEN_21R (500-238579-1) | Sample Date: 8/22/23 | Sample Time: 13:45 Central | Matrix: Water |
| HEN_22&D (500-238579-2) | Sample Date: 8/22/23 | Sample Time: 09:10 Central | Matrix: Water |
| HEN_23 (500-238579-3) | Sample Date: 8/22/23 | Sample Time: 11:20 Central | Matrix: Water |
| HEN_23_FD (500-238579-4) | Sample Date: 8/22/23 | Sample Time: 11:20 Central | Matrix: Water |
| HEN_32 (500-238579-5) | Sample Date: 8/22/23 | Sample Time: 11:15 Central | Matrix: Water |
| HEN_51 (500-238579-6) | Sample Date: 8/22/23 | Sample Time: 15:56 Central | Matrix: Water |
| HEN_27 (500-238579-26) | Sample Date: 8/24/23 | Sample Time: 09:00 Central | Matrix: Water |
| HEN_35 (500-238579-27) | Sample Date: 8/24/23 | Sample Time: 10:10 Central | Matrix: Water |
| HEN_34 (500-238579-44) | Sample Date: 8/25/23 | Sample Time: 11:25 Central | Matrix: Water |
| Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago. | | 845 QUARTERLY REPORT - QUARTER 3, 2023 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4 HEN-845-802-805 | |
| Possible Hazard Identification | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | |
| Unconfirmed | | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | |
| Deliverable Requested: I, II, III, IV, Other (Specify) | | Special Instructions/OC Requirements: | |
| Empty Kit Relinquished by: | | Method of Shipment: | |
| Relinquished by: <i>Stephanie Hernandez</i> Date/Time: 8/21/23 1500 | | Received by: _____ Date/Time: _____ | |
| Relinquished by: _____ Date/Time: _____ | | Received by: <i>Evana Sharkey - Slomberg</i> Date/Time: 8/30/23 0900 | |
| Relinquished by: _____ Date/Time: _____ | | Received by: _____ Date/Time: _____ | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Cooler Temperature(s) °C and Other Remarks: | |



| | | | | | | | | | | | | |
|--|-------------------------------------|-----------------------|--|------------------------------|---|-----------------------------------|----------------------------|--------------------|-------------------|-------------------|----------------------------|----------------------------|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Carrier Tracking No(s): | IQC No: | | | | | | | |
| Client Contact: | | Phone: | McCUTCHEON, Carlene | | 500-178415.2 | | | | | | | |
| Shipping/Receiving | | | E-Mail: | State of Origin: | Page: | | | | | | | |
| Company: | | | Carlene.McCutcheon@et.eurofins.com | Illinois | Page 2 of 2 | | | | | | | |
| Address: | | Due Date Requested: | Accreditations Required (See note): | | | | | | | | | |
| 13715 Rider Trail North, | | 9/14/2023 | NELAP - Illinois | | | | | | | | | |
| City: | Earth City | TAT Requested (days): | Preservation Codes: | | | | | | | | | |
| State, Zip: | MO, 63045 | | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) | | | | | | | | | |
| Phone: | 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | Other: | | | | | | | | | |
| Email: | | WO #: | | | | | | | | | | |
| Project Name: | HEN-23Q3 | Project #: | | | | | | | | | | |
| Site: | | SSOW#: | | | | | | | | | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, G=wateroil, B=flask, A=air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PreSep_21 AD | 904.0/PreSep_0 AD | R226_228GFPC_P/AD | Total Number of Containers | Special Instructions/Note: |
| HEN_49 (500-238579-45) | | 8/25/23 | 10:05 Central | Water | Water | | | X | X | | 2 | |
| HEN_49_MS (500-238579-45MS) | | 8/25/23 | 10:05 Central | MS | Water | | | X | X | | 3 | |
| HEN_49_MSD (500-238579-45MSD) | | 8/25/23 | 10:05 Central | MSD | Water | | | X | X | | 3 | |
| HEN_22 (500-238579-46) | | 8/25/23 | 08:50 Central | Water | Water | | | X | X | | 2 | |
| HEN_50 (500-238579-47) | | 8/25/23 | 11:25 Central | Water | Water | | | X | X | | 2 | |
| <p>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.</p> | | | | | | | | | | | | |
| Possible Hazard Identification | | | | | | | | | | | | |
| Unconfirmed | | | | | | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | | | | | | | |
| Primary Deliverable Rank: 2 | | | | | | | | | | | | |
| Empty Kit Relinquished by: | | | | | | | | | | | | |
| Date/Time: 8/29/23 10:00 | | | | | | | | | | | | |
| Relinquished by: Stephanie Hernandez | | | | | | | | | | | | |
| Date/Time: 8/29/23 10:00 | | | | | | | | | | | | |
| Relinquished by: FED EX | | | | | | | | | | | | |
| Date/Time: 8/29/23 10:00 | | | | | | | | | | | | |
| Relinquished by: FED EX | | | | | | | | | | | | |
| Date/Time: 8/29/23 10:00 | | | | | | | | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | |
| Custody Seal No.: | | | | | | | | | | | | |
| Cooler Temperature(s) °C and Other Remarks: | | | | | | | | | | | | |
| <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/QC Requirements:</p> | | | | | | | | | | | | |
| <p>Method of Shipment:</p> <p>Received by: _____ Date/Time: _____</p> <p>Received by: _____ Date/Time: _____</p> <p>Received by: _____ Date/Time: _____</p> | | | | | | | | | | | | |

ATTACHMENT B

845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805



Chain of Custody Record



Environment Testing



| | | | | | | |
|---|--|---|----------|-----------------------------------|-------------------------|--|
| Client Information (Sub Contract Lab) | | Lab PM: McCUTCHEON, Carlene | Sampler: | Lab No: 500-178415.1 | COC No: 500-178415.1 | |
| Shipping/Receiving | | E-Mail: Carlene.McCUTCHEON@et.eurofins.com | Phone: | State of Origin: Illinois | | Page: Page 1 of 2 |
| Company: TestAmerica Laboratories, Inc. | | Address: 13715 Rider Trail North, City: Earth City State, Zip: MO, 63045 | | Job #: 500-238579-23 | | Job #: 500-238579-23 |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | PO #: | | Due Date Requested: 9/14/2023 | | Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) |
| Email: | | WO #: | | TAT Requested (days): | | Analysis Requested |
| Project Name: HEN-23Q3 | | Project #: 50021987 | | Field Filtered Sample (Yes or No) | | |
| Site: | | SSOW#: | | Perform MS/MSD (Yes or No) | | Total Number of Containers |
| Sample Identification - Client ID (Lab ID) | | Sample Date | | Field Filtered Sample (Yes or No) | | |
| HEN_12 (500-238579-15) | | 8/23/23 | | X | | 2 |
| HEN_13 (500-238579-16) | | 8/23/23 | | X | | 2 |
| HEN_46 (500-238579-18) | | 8/23/23 | | X | | 2 |
| HEN_47 (500-238579-19) | | 8/23/23 | | X | | 2 |
| HEN_54 (500-238579-20) | | 8/23/23 | | X | | 2 |
| HEN_52 (500-238579-25) | | 8/24/23 | | X | | 2 |
| HEN_07 (500-238579-28) | | 8/24/23 | | X | | 2 |
| HEN_08 (500-238579-30) | | 8/24/23 | | X | | 2 |
| HEN_08&D (500-238579-32) | | 8/24/23 | | X | | 2 |

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Supromie Hemond Date/Time: 8/19/23 1500
 Relinquished by: _____ Date/Time: _____
 Relinquished by: FEDEX Date/Time: 8/30/29 900
 Custody Seals Intact: _____ Custody Seal No.: _____
 A Yes A No

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: _____
 Method of Shipment: _____
 Received by: FEDEX Date/Time: _____
 Received by: Supromie Hemond Date/Time: _____
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record



| | | | | | | | |
|---|--|-----------------------|------------------------------------|-------------------------------------|---|---------------------------|-----------------------------------|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Carrier Tracking No(s): | COC No: | | |
| Client Contact: | | Phone: | McCutcheon, Carlene | State of Origin: | 500-178415-1 | | |
| Shipping/Receiving | | | E-Mail: | Illinois | Page: 1 of 2 | | |
| Company: | | | Carlene.McCutcheon@et.eurofins.com | Accreditations Required (See note): | Job #: 500-238579-2 | | |
| TestAmerica Laboratories, Inc. | | | NELAP - Illinois | | | | |
| Address: | | Due Date Requested: | Analysis Requested | | | | |
| 13715 Rider Trail North, | | 9/14/2023 | Total Number of Containers | | | | |
| City: | | TAT Requested (days): | Perform M/MSD (Yes or No) | | | | |
| Earth City | | | Field Filtered Sample (Yes or No) | | | | |
| State, Zip: | | PO #: | 903.0/PreSep_21 AA | | | | |
| MO, 63045 | | WO #: | 904.0/PreSep_0 AA | | | | |
| Project Name: | | Project #: | R226_228GFP_C_P_AA | | | | |
| HEN-23Q3 | | SSOW#: | | | | | |
| Site: | | | | | | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (Water, Swallow, Onwasteloid, BioTissue, A=Air) | Preservation Code: | Special Instructions/Note: |
| HEN_21R (500-238579-1) | | 8/22/23 | 13:45 Central | Water | Water | | |
| HEN_22&D (500-238579-2) | | 8/22/23 | 09:10 Central | Water | Water | | |
| HEN_23 (500-238579-3) | | 8/22/23 | 11:20 Central | Water | Water | | |
| HEN_23_FD (500-238579-4) | | 8/22/23 | 11:20 Central | Water | Water | | |
| HEN_32 (500-238579-5) | | 8/22/23 | 11:15 Central | Water | Water | | |
| HEN_51 (500-238579-6) | | 8/22/23 | 15:56 Central | Water | Water | | |
| HEN_27 (500-238579-26) | | 8/24/23 | 09:00 Central | Water | Water | | |
| HEN_35 (500-238579-27) | | 8/24/23 | 10:10 Central | Water | Water | | |
| HEN_34 (500-238579-44) | | 8/25/23 | 11:25 Central | Water | Water | | |

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Sophomie Hamonday* Date/Time: *8/19/23 1500* Company: *FEDEX*
 Relinquished by: *Evana Shantroy - Hamonday* Date/Time: *8/30/23 0900* Company: *FEDEX*
 Relinquished by: _____ Date/Time: _____ Company: _____

Custody Seal No.: _____
 A Yes Δ No

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: _____
 Method of Shipment: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____
 Received by: _____ Date/Time: _____ Company: _____

845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 HEN-845-802-805



Chain of Custody Record



| | | | | | |
|---|-------------------------------------|---|-------------------------------------|---|---------------------------|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Camera Tracking No(s): | COC No: |
| Client Contact: Shipping/Receiving | | Phone: | McCUTCHEON, Carlene | 500-178415.1 | 500-178415.1 |
| Company: TesAmerica Laboratories, Inc. | | E-Mail: | Carlene.McCutcheon@et.eurofins.com | State of Origin: | Page: 1 of 1 |
| Address: 13715 Rider Trail North, | | Accreditations Required (See note): NELAP - Illinois | | Job #: | 500-238579-18 |
| City: | Earth City | Due Date Requested: | 9/14/2023 | | |
| State, Zip: | MO, 63045 | TAT Requested (days): | | | |
| Phone: | 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | |
| Email: | | WO #: | | | |
| Project Name: | HEN-2303 | Project #: | 50021987 | | |
| Site: | | SSOW#: | | | |
| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Sewer, Oil, Soil, Sludge, etc.) | Preservation Code: |
| HEN_18&D (500-238579-13) | 8/23/23 | 14:05 Central | | Water | |
| HEN_07 (500-238579-28) | 8/24/23 | 14:00 Central | | Water | |
| HEN_08 (500-238579-30) | 8/24/23 | 15:10 Central | | Water | |
| HEN_08&D (500-238579-32) | 8/24/23 | 12:25 Central | | Water | |
| HEN_08_FD (500-238579-34) | 8/24/23 | 15:10 Central | | Water | |
| HEN_18#S (500-238579-51) | 8/28/23 | 08:35 Central | | Water | |
| HEN_03R (500-238579-53) | 8/28/23 | 09:45 Central | | Water | |
| HEN_03R (500-238579-53MS) | 8/28/23 | 09:45 Central | | Water | |
| HEN_03R (500-238579-53MSD) | 8/28/23 | 09:45 Central | | Water | |
| 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) | | | | | |
| Empty Kit Relinquished by: | | | | | |
| Relinquished by: <i>Suphanie Hemanduy</i> | | | | | |
| Relinquished by: <i>FED EX</i> | | | | | |
| Relinquished by: <i>Barbara Sharkey - Dayaker</i> | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| Custody Seal No.: | | | | | |
| Cooler Temperature(s) °C and Other Remarks: | | | | | |
| Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | |
| Special Instructions/OC Requirements: | | | | | |
| Method of Shipment: _____ Date/Time: _____ | | | | | |
| Received by: _____ Date/Time: _____ | | | | | |
| Received by: <i>Barbara Sharkey - Dayaker</i> 8/30/23 09:00 | | | | | |
| Received by: _____ Date/Time: _____ | | | | | |
| 845 QUARTERLY REPORT - QUARTER 3, 2023 HENNEPIN POWER PLANT ASH PONDS NO. 2 AND NO. 4 HEN-845-802-805 | | | | | |



Chain of Custody Record



Environment Testing



| | | | | | | | | | | | | | | |
|---|-------------------------------------|---|-------------------------------------|--|---------------------------|--|-----------------------------------|---------------------------|--------------------------|--------------------------|------------------------------|--|-----------------------------------|-----------------------------------|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Camera Tracking No(s): | COC No: | | | | | | | | | |
| Client Contact: Shipping/Receiving | | Phone: | McCUTCHEON, Carlene | | 500-178415.1 | | | | | | | | | |
| Company: TetraAmerica Laboratories, Inc. | | E-Mail: | Carlene.McCutcheon@et.eurofins.com | State of Origin: | Page 1 of 1 | | | | | | | | | |
| Address: 13715 Rider Trail North, | | Accreditations Required (See note): NELAP - Illinois | | Job #: | 500-238579-16 | | | | | | | | | |
| City: | Earth City | Due Date Requested: | 9/14/2023 | | | | | | | | | | | |
| State, Zip: | MO, 63045 | TAT Requested (days): | | | | | | | | | | | | |
| Phone: | 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | | | | | | | | | | | | |
| Email: | | WO #: | | | | | | | | | | | | |
| Project Name: | HEN-2303 | Project #: | 50021987 | | | | | | | | | | | |
| Site: | | SSOW#: | | | | | | | | | | | | |
| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=wastewater, B=biomass, A=air) | Preservation Code: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PreSep_21 AB | 904.0/PreSep_0 AB | Ra226_228GFP_C/AB | 903.0/PreSep_21 AB-16 | Analysis Requested | Total Number of Containers | Special Instructions/Note: |
| HEN_18&D (500-238579-13) | 8/23/23 | 14:05 Central | Water | Water | | X | X | X | X | X | X | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) | 2 | |
| HEN_07 (500-238579-28) | 8/24/23 | 14:00 Central | Water | Water | | X | X | X | X | X | X | | 2 | |
| HEN_08 (500-238579-30) | 8/24/23 | 15:10 Central | Water | Water | | X | X | X | X | X | X | | 2 | |
| HEN_08&D (500-238579-32) | 8/24/23 | 12:25 Central | Water | Water | | X | X | X | X | X | X | | 2 | |
| HEN_08_FD (500-238579-34) | 8/24/23 | 15:10 Central | Water | Water | | X | X | X | X | X | X | | 2 | |
| HEN_18#S (500-238579-51) | 8/28/23 | 08:35 Central | Water | Water | | X | X | X | X | X | X | | 2 | |
| HEN_03R (500-238579-53) | 8/28/23 | 09:45 Central | Water | Water | | X | X | X | X | X | X | | 2 | |
| HEN_03R (500-238579-53MS) | 8/28/23 | 09:45 Central | MS | Water | | X | X | X | X | X | X | | 3 | |
| HEN_03R (500-238579-53MSD) | 8/28/23 | 09:45 Central | MSD | Water | | X | X | X | X | X | X | | 3 | |

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

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____
 Custody Seals Intact: _____ Custody Seal No.: _____
 Δ Yes Δ No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



| | | | | | |
|---|--|--|--|--------------------------------------|--|
| Client Information (Sub Contract Lab) | | Lab PM: McCutcheon, Carlene | | Carrier Tracking No(s): 500-178415-1 | |
| Client Contact: Shipping/Receiving | | E-Mail: Carlene.McCutcheon@et.eurofins.com | | Page: Page 1 of 2 | |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Job #: 500-238579-14 | |
| Address: 13715 Rider Trail North, Earth City, MO, 63045 | | Due Date Requested: 9/14/2023 | | TAT Requested (days): | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | PO #: | | 903.0/PreSep_21 Y-14 | |
| Email: | | WO #: | | 904.0/PreSep_0 Y | |
| Project Name: HEN-2303 | | Project #: 50021987 | | 903.0/PreSep_21 Y | |
| Site: | | SSOW#: | | Perform MS/MSD (Yes or No) | |

| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=solid, O=soil, B=tissue, A=air) | Preservation Code: | Field Filtered Sample (Yes or No) | | Analysis Requested | | Special Instructions/Note: |
|--|-------------|---------------|------------------------------|--|--------------------|-----------------------------------|--------|--------------------|------------------|----------------------------|
| | | | | | | Field Filtered | MS/MSD | 903.0/PreSep_21 Y | 904.0/PreSep_0 Y | |
| HEN_18&D (500-238579-13) | 8/23/23 | 14:05 Central | | Water | | X | X | X | | |
| HEN_07 (500-238579-28) | 8/24/23 | 14:00 Central | | Water | | X | X | X | | |
| HEN_08 (500-238579-30) | 8/24/23 | 15:10 Central | | Water | | X | X | X | | |
| HEN_08&D (500-238579-32) | 8/24/23 | 12:25 Central | | Water | | X | X | X | | |
| HEN_08_FD (500-238579-34) | 8/24/23 | 15:10 Central | | Water | | X | X | X | | |
| HEN_257_FB (500-238579-42) | 8/25/23 | 12:00 Central | | Water | | X | X | X | | |
| HEN_18* (500-238579-51) | 8/28/23 | 08:35 Central | | Water | | X | X | X | | |
| HEN_03R (500-238579-53) | 8/28/23 | 09:45 Central | | Water | | X | X | X | | |
| HEN_03R (500-238579-53MS) | 8/28/23 | 09:45 Central | MS | Water | | X | X | X | | |

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

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date:
 Relinquished by: *Stephanie Hernandez* Date/Time: 8/29/23 1300 Company: *EEFA*
 Relinquished by: *FEDEX* Date/Time: Date/Time: Company:
 Relinquished by: *FEDEX* Date/Time: Date/Time: Company:

Custody Seals Intact: Custody Seal No.:
 Δ Yes Δ No

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:

Method of Shipment: _____ Date/Time: _____
 Received by: _____ Date/Time: _____
 Received by: *Paloma Shanley - Hoop* Date/Time: *8/30/23 0900* Company: *ETAS*
 Received by: _____ Date/Time: _____ Company:



| | | | | | | | | | | | | | | |
|--|--|--|---------------------------|-------------------------------------|---|---------------------------|--|-----------------------------------|--------------------------|-------------------------|---------------------------|-----------------------------|-----------------------------------|-----------------------------------|
| Client Information (Sub Contract Lab) | | Lab PM: McCutcheon, Carlene | Camera Tracking No(s): | COC No: 500-178415.2 | | | | | | | | | | |
| Client Contact: Shipping/Receiving | | E-Mail: Carlene.McCutcheon@et.eurofins.com | State of Origin: Illinois | Page: Page 2 of 2 | | | | | | | | | | |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | | | | | | | | | | | |
| Address: 13715 Rider Trail North, Earth City, MO, 63045 | | Due Date Requested: 9/14/2023 | | | | | | | | | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | TAT Requested (days): | | | | | | | | | | | | |
| Email: | | FO #: | | | | | | | | | | | | |
| Project Name: HEN-2303 | | WO #: | | | | | | | | | | | | |
| Site: | | Project #: 50021987 | | | | | | | | | | | | |
| | | SSOW#: | | | | | | | | | | | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=soil, B=biological, A=air) | Preservation Code: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PreSep_21 Y | 904.0/PreSep_0 Y | Ra226_228GFP_C/P Y | 903.0/PreSep_21 Y-14 | Total Number of Containers | Special Instructions/Note: |
| HEN_03R (500-238579-53MSD) | | 8/29/23 | 09:45 Central | MSD | Water | | X | X | X | X | X | X | 3 | |
| <p>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.</p> | | | | | | | | | | | | | | |
| Possible Hazard Identification | | | | | | | | | | | | | | |
| Unconfirmed | | | | | | | | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (Specify) | | | | | | | | | | | | | | |
| Empty Kit Relinquished by: | | | | | | | | | | | | | | |
| Date/Time: 8/10/23 1500 | | | | | | | | | | | | | | |
| Relinquished by: Stephanie Hernandez | | | | | | | | | | | | | | |
| Date/Time: 8/10/23 1500 | | | | | | | | | | | | | | |
| Relinquished by: FED EX | | | | | | | | | | | | | | |
| Date/Time: | | | | | | | | | | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | |
| Custody Seal No.: | | | | | | | | | | | | | | |
| <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p> <p>Special Instructions/OC Requirements:</p> | | | | | | | | | | | | | | |
| <p>Method of Shipment: _____ Date/Time: _____</p> <p>Received by: _____ Date/Time: _____</p> <p>Received by: <i>Barbara Shankley - Shankley</i> Date/Time: 8/30/23 0900</p> <p>Received by: _____ Date/Time: _____</p> | | | | | | | | | | | | | | |
| <p>Company: <i>FEFA</i> Company: <i>FEFA</i> Company: _____</p> | | | | | | | | | | | | | | |
| <p>845 QUARTERLY REPORT - QUARTER 3, 2023</p> <p>HENNEPIN POWER PLANT ASH PONDS NO. 2 AND NO. 4</p> <p>HEN-845-802-805</p> | | | | | | | | | | | | | | |



Chain of Custody Record



| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Carrier Tracking No(s): | COC No: | | | | | | | |
|--|-------------|-------------------------------------|------------------------------|---|--------------------|-----------------------------------|----------------------------|--------------------|-------------------|---------------------|----------------------------|----------------------------|
| Client Contact: | | Phone: | McCUTCHEON, Carlene | | 500-178415-1 | | | | | | | |
| Shipping/Receiving | | E-Mail: | McCUTCHEON, Carlene | State of Origin: | Page: | | | | | | | |
| Company: | | Accreditations Required (See note): | NELAP - Illinois | Illinois | Page 1 of 2 | | | | | | | |
| Address: | | Due Date Requested: | | | Job #: | | | | | | | |
| 13715 Rider Trail North, | | 9/14/2023 | | | 500-238579-10 | | | | | | | |
| City: | | TAT Requested (days): | | | | | | | | | | |
| Earth City | | | | | | | | | | | | |
| State, Zip: | | PO #: | | | | | | | | | | |
| MO, 63045 | | WO #: | | | | | | | | | | |
| Phone: | | Project #: | | | | | | | | | | |
| 314-298-8566(Tel) 314-298-8757(Fax) | | 50021987 | | | | | | | | | | |
| Email: | | SSOW#: | | | | | | | | | | |
| | | | | | | | | | | | | |
| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air) | Preservation Code: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 903.0/PreSep_21 AG | 904.0/PreSep_0 AG | Ra226_228GFPC_P1 AG | Total Number of Containers | Special Instructions/Note: |
| HEN_25 (500-238579-7) | 8/22/23 | 14:30 Central | | Water | | X | X | X | X | X | 2 | |
| HEN_26 (500-238579-8) | 8/22/23 | 15:35 Central | | Water | | X | X | X | X | X | 2 | |
| HEN_26_MS (500-238579-8MS) | 8/22/23 | 15:35 Central | MS | Water | | X | X | X | X | X | 2 | |
| HEN_26_MS (500-238579-8MSD) | 8/22/23 | 15:35 Central | MSD | Water | | X | X | X | X | X | 2 | |
| HEN_XPW01_pore (500-238579-36) | 8/24/23 | 12:15 Central | | Water | | X | X | X | X | X | 2 | |
| HEN_XPW01_pore_EB (500-238579-37) | 8/24/23 | 12:15 Central | | Water | | X | X | X | X | X | 2 | |
| HEN_XPW02_pore (500-238579-38) | 8/24/23 | 13:45 Central | | Water | | X | X | X | X | X | 2 | |
| HEN_XPW02_pore_EB (500-238579-39) | 8/24/23 | 13:45 Central | | Water | | X | X | X | X | X | 4 | |
| HEN_XPW03_pore (500-238579-40) | 8/24/23 | 15:30 Central | | Water | | X | X | X | X | X | 2 | |

Analysis Requested

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2OAS
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - PH 4-5
 Y - Trizma
 Z - other (specify)
 Other:

Special Instructions/Note:

845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH POUNDS NO. 2 AND NO. 4
 HEN-845-802-805

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:

Received by: *Stephanie Hernandez* Company: *FED EX*
 Date/Time: *8/19/23 1500*

Received by: *Bryana Sharkey - Samples* Company: *ETC*
 Date/Time: *8/30/23 0900*

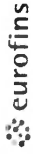
Received by: _____ Company: _____
 Date/Time: _____

Custody Seal No.: _____
 Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH POND NO. 2 AND NO. 4
HEN-845-802-405

| | | | | | |
|--|--|---|--|---|--|
| Client Information (Sub Contract Lab) | | Lab PM: McCUTCHEON, Carlene | | COC No: 500-178415.2 | |
| Client Contact: McCUTCHEON, Carlene | | E-Mail: Carlene.McCutcheon@eurofins.com | | Page: Page 2 of 2 | |
| Shipping/Receiving | | State of Origin: Illinois | | Job #: 500-238579-10 | |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | |
| Address: 13715 Rider Trail North, | | Due Date Requested: 9/14/2023 | | M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) | |
| City: Earth City | | TAT Requested (days): | | Analysis Requested | |
| State, Zip: MO, 63045 | | PO #: | | Total Number of containers | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | | WO #: | | Perform MS/MSD (Yes or No) | |
| Email: | | Project #: 50021987 | | Field Filtered Sample (Yes or No) | |
| Site: HEN-2303 | | SSOW#: | | 903.0/PreSep_21 AG | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | | 904.0/PreSep_0 AG | |
| HEN_XPW03_pore_EB (500-238579-41) | | 8/24/23 | | R226_228GFP_C PI AG | |
| Sample Time | | Sample Time | | Total Number of containers | |
| 15:30 | | 15:30 | | 2 | |
| Central | | Water | | Special Instructions/Note: | |
| Matrix (W=water, S=solid, O=wastewater, B=biotissue, A=AA) | | Preservation Code: | | EB | |

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

Possible Hazard Identification
Unconfirmed

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: **Stephanie Hemandy** Date/Time: **8/19/23 1500** Company: **EEIA**

Relinquished by: **FED EX** Date/Time: _____ Company: _____

Relinquished by: **Stephanie Hemandy** Date/Time: **8/30/23 0500** Company: **EEIA**

Custody Seals Intact: Yes No Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks:



Chain of Custody Record



| | | | | | | | |
|--|--|-----------------------|------------------------------------|-------------------------------------|---|--------------------|----------------------------|
| Client Information (Sub Contract Lab) | | Sampler: | Lab PM: | Carrier Tracking No(s): | COC No: | | |
| Client Contact: | | Phone: | McCutcheon, Carlene | State of Origin: | 500-178415-1 | | |
| Shipping/Receiving | | | E-Mail: | Illinois | Page: Page 1 of 2 | | |
| Company: | | | Carlene.McCutcheon@et.eurofins.com | Accreditations Required (See note): | Job #: 500-238579-1 | | |
| TestAmerica Laboratories, Inc. | | | NELAP - Illinois | | | | |
| Address: | | Due Date Requested: | Analysis Requested | | | | |
| 13715 Rider Trail North, | | 9/25/2023 | Perform MS/MSD (Yes or No) | | | | |
| City: | | TAT Requested (days): | Field Filtered Sample (Yes or No) | | | | |
| Earth City | | | 903.0/PreSep_21 Y-14 | | | | |
| State, Zip: | | PO #: | 904.0/PreSep_0 Y | | | | |
| MO, 63045 | | WO #: | R226_228GFC_P/Y | | | | |
| Phone: | | Project #: | 903.0/PreSep_21 AE-18 | | | | |
| 314-298-8566(Tel) 314-298-8757(Fax) | | 50021987 | R226_228GFC_P/AB | | | | |
| Email: | | SSOW#: | 904.0/PreSep_0 AE | | | | |
| | | | 903.0/PreSep_21 Z-21 | | | | |
| Project Name: | | | 904.0/PreSep_0 Z | | | | |
| HEN-2303 | | | R226_228GFC_P/Z | | | | |
| Site: | | | 903.0/PreSep_21 AC-23 | | | | |
| | | | Total Number of Containers | | | | |
| Sample Identification - Client ID (Lab ID) | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (Water, Sealed, On-wastewater, Bifluoride, A=AP) | Preservation Code: | Special Instructions/Note: |
| HEN_45#S (500-238579-56) | | 8/28/23 | 11-15 Central | | Water | | |
| HEN_16 (500-238579-58) | | 8/28/23 | 08:35 Central | | Water | | |
| HEN_17 (500-238579-59) | | 8/28/23 | 09:40 Central | | Water | | |
| HEN_17-FD (500-238579-60) | | 8/28/23 | 09:40 Central | | Water | | |

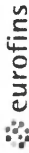
Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in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

Possible Hazard Identification
Unconfirmed
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
Empty Kit Relinquished by: _____ Date: _____
Relinquished by: *Stephanie Hammond* Date/Time: 8/29/23 1500 Company: *EEIA*
Relinquished by: *FED EX* Date/Time: _____ Company: _____
Relinquished by: _____ Date/Time: _____ Company: _____
Custody Seals Intact: _____ Custody Seal No.: _____
Δ Yes Δ No

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: _____
Method of Shipment: _____
Received by: _____ Date/Time: _____ Company: _____
Received by: *Briana Sharkey - Hazardous Waste* Date/Time: _____ Company: *57471*
Received by: _____ Date/Time: _____ Company: _____
Cooler Temperature(s) °C and Other Remarks: _____



Chain of Custody Record



Environment Testing

| | | | | | | | | | |
|---|-------------------------------|--|--------------------------------------|--|---------------------------|--|-----------------------------------|---------------------------|-----------------------------------|
| Client Information (Sub Contract Lab) | | Lab PM: McCutcheon, Carlene | Carrier Tracking No(s): 500-178415.2 | | | | | | |
| Client Contact: Shipping/Receiving | | E-Mail: Carlene.McCutcheon@et.eurofins.com | Page: Page 2 of 2 | | | | | | |
| Company: TestAmerica Laboratories, Inc. | | Accreditations Required (See note): NELAP - Illinois | | | | | | | |
| Address: 13715 Rider Trail North, | | Job #: 500-238579-1 | | | | | | | |
| City: Earth City | Due Date Requested: 9/25/2023 | Analysis Requested | | | | | | | |
| State: MO, Zip: 63045 | TAT Requested (days): | Perform MS/MSD (Yes or No) | | | | | | | |
| Phone: 314-298-8566(Tel) 314-298-8757(Fax) | PO #: | Field Filtered Sample (Yes or No) | | | | | | | |
| Email: | WO #: | Total Number of Containers | | | | | | | |
| Project Name: HEN-2303 | Project #: 50021987 | Special Instructions/Note: | | | | | | | |
| Site: | SSOW#: | Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify) Other: | | | | | | | |
| Sample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (H=water, S=solid, O=soil, B=biomass, A=air) | Preservation Code: | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Analysis Requested | Total Number of Containers |
| HEN_45#S (500-238579-56) | 8/28/23 | 11:15 Central | | Water | | X | | | 2 |
| HEN_16 (500-238579-58) | 8/28/23 | 08:35 Central | | Water | | X | | | 2 |
| HEN_17 (500-238579-59) | 8/28/23 | 09:40 Central | | Water | | X | | | 2 |
| HEN_17-FD (500-238579-60) | 8/28/23 | 09:40 Central | | Water | | X | | | 2 |

HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
 HEN-845-802-805

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

Possible Hazard Identification

Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: Date: Method of Shipment:
 Relinquished by: *Stephanie Hemondy* Date/Time: 8/29/23 15:00 Company: *EEIA*
 Relinquished by: *FED EX* Date/Time: *8/30/23 09:00* Company: *Sharkbay - Hazardous*
 Relinquished by: Date/Time: Company:

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:

Cooler Temperature(s) °C and Other Remarks:
 Custody Seal No.:
 A Yes Δ No



ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-238579-10
SDG Number: HEN_SUP_000_0 RAD

Login Number: 238579

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 | 0.6,0.7,0.3,1.2,0.8,0.4,0.1,2.9,1.7,3.7,1.0,2.8,0.2,2.0,2.9,0.1,1.63,0,1.3,0.5,2 |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | False | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | False | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4"). | False | |
| 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 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4
HEN-845-802-805

Login Sample Receipt Checklist

Client: Vistra Energy Corp

Job Number: 500-238579-10
SDG Number: HEN_SUP_000_0 RAD

Login Number: 238579

List Number: 3

Creator: Sharkey-Gonzalez, Briana L

List Source: Eurofins St. Louis

List Creation: 08/30/23 01:27 PM

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



Tracer/Carrier Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
HEN 23 Q3 2023
SDG: HEN_SUP_000_0 RAD

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | | |
|--------------------|--------------------|-----------------------------------|----------------|----------------|
| | | Ba (30-110) | Ba (30-110) | Ba (30-110) |
| 500-238579-1 | HEN_21R | 90.1 | 90.1 | 90.1 |
| 500-238579-3 | HEN_23 | 96.5 | 96.5 | 96.5 |
| 500-238579-4 | HEN_23_FD | 94.0 | 94.0 | 94.0 |
| 500-238579-5 | HEN_32 | 92.8 | 92.8 | 92.8 |
| 500-238579-6 | HEN_51 | 91.3 | 91.3 | 91.3 |
| 500-238579-7 | HEN_25 | 94.5 | 94.5 | 94.5 |
| 500-238579-8 | HEN_26 | 89.6 | 89.6 | 89.6 |
| 500-238579-8 MS | HEN_26_MS | 84.4 | 84.4 | 84.4 |
| 500-238579-8 MSD | HEN_26_MSD | 88.3 | 88.3 | 88.3 |
| 500-238579-13 | HEN_18&D | 93.1 | 93.1 | 93.1 |
| 500-238579-26 | HEN_27 | 95.3 | 95.3 | 95.3 |
| 500-238579-27 | HEN_35 | 93.5 | 93.5 | 93.5 |
| 500-238579-36 | HEN_XPW01_pore | 30.3 | 30.3 | 30.3 |
| 500-238579-37 | HEN_XPW01_pore_EB | 96.3 | 96.3 | 96.3 |
| 500-238579-38 | HEN_XPW02_pore | 99.3 | 99.3 | 99.3 |
| 500-238579-39 | HEN_XPW02_pore_EB | 93.1 | 93.1 | 93.1 |
| 500-238579-40 | HEN_XPW03_pore | 94.5 | 94.5 | 94.5 |
| 500-238579-41 | HEN_XPW03_pore_EB | 99.5 | 99.5 | 99.5 |
| 500-238579-42 | HEN_257_FB | 99.0 | 99.0 | 99.0 |
| 500-238579-44 | HEN_34 | 99.0 | 99.0 | 99.0 |
| 500-238579-45 | HEN_49 | 91.3 | 91.3 | 91.3 |
| 500-238579-45 MS | HEN_49_MS | 90.6 | 90.6 | 90.6 |
| 500-238579-45 MSD | HEN_49_MSD | 87.1 | 87.1 | 87.1 |
| 500-238579-46 | HEN_22 | 96.0 | 96.0 | 96.0 |
| 500-238579-47 | HEN_50 | 95.0 | 95.0 | 95.0 |
| 500-238579-50 | 845_803_FB | 97.3 | 97.3 | 97.3 |
| 500-238579-51 | HEN_18#S | 93.3 | 93.3 | 93.3 |
| 500-238579-53 | HEN_03R | 89.3 | 89.3 | 89.3 |
| 500-238579-53 MS | HEN_03R_MS | 90.3 | 90.3 | 90.3 |
| 500-238579-53 MSD | HEN_03R_MSD | 94.8 | 94.8 | 94.8 |
| 500-238579-56 | HEN_45#S | 93.5 | 93.5 | 93.5 |
| LCS 160-626172/2-A | Lab Control Sample | 93.1 | 93.1 | 93.1 |
| LCS 160-626178/2-A | Lab Control Sample | 100 | 100 | 100 |
| LCS 160-626180/2-A | Lab Control Sample | 94.0 | 94.0 | 94.0 |
| MB 160-626172/1-A | Method Blank | 89.8 | 89.8 | 89.8 |
| MB 160-626178/1-A | Method Blank | 99.3 | 99.3 | 99.3 |
| MB 160-626180/1-A | Method Blank | 94.8 | 94.8 | 94.8 |

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | | | | |
|---------------|------------------|-----------------------------------|----------------|----------------|----------------|----------------|
| | | Ba (30-110) | Ba (30-110) | Ba (30-110) | Ba (30-110) | Ba (30-110) |
| 500-238579-28 | HEN_07 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 |
| 500-238579-30 | HEN_08 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 |
| 500-238579-32 | HEN_08&D | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 |

Tracer/Carrier Summary

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

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | | | | |
|---------------|------------------|-----------------------------------|----------------|----------------|----------------|----------------|
| | | Ba (30-110) | Ba (30-110) | Ba (30-110) | Ba (30-110) | Ba (30-110) |
| 500-238579-34 | HEN_08_FD | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 |

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | |
|---------------|------------------|-----------------------------------|----------------|
| | | Ba (30-110) | Ba (30-110) |
| 500-238579-2 | HEN_22&D | 91.3 | 91.3 |
| 500-238579-15 | HEN_12 | 95.8 | 95.8 |
| 500-238579-16 | HEN_13 | 85.4 | 85.4 |
| 500-238579-18 | HEN_46 | 90.1 | 90.1 |
| 500-238579-19 | HEN_47 | 93.1 | 93.1 |
| 500-238579-20 | HEN_54 | 91.8 | 91.8 |
| 500-238579-25 | HEN_52 | 89.6 | 89.6 |
| 500-238579-58 | HEN_16 | 99.3 | 99.3 |
| 500-238579-59 | HEN_17 | 93.5 | 93.5 |
| 500-238579-60 | HEN_17-FD | 91.1 | 91.1 |

Tracer/Carrier Legend

Ba = Ba Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | | | | | |
|------------------|-------------------|-----------------------------------|---------------|----------------|---------------|---------------|---------------|
| | | Ba (30-110) | Y (30-110) | Ba (30-110) | Y (30-110) | Y (30-110) | Y (30-110) |
| 500-238579-1 | HEN_21R | 90.1 | 82.6 | 90.1 | 82.6 | 82.6 | 82.6 |
| 500-238579-3 | HEN_23 | 96.5 | 78.9 | 96.5 | 78.9 | 78.9 | 78.9 |
| 500-238579-4 | HEN_23_FD | 94.0 | 80.0 | 94.0 | 80.0 | 80.0 | 80.0 |
| 500-238579-5 | HEN_32 | 92.8 | 78.1 | 92.8 | 78.1 | 78.1 | 78.1 |
| 500-238579-6 | HEN_51 | 91.3 | 82.2 | 91.3 | 82.2 | 82.2 | 82.2 |
| 500-238579-7 | HEN_25 | 94.5 | 79.6 | 94.5 | 79.6 | 79.6 | 79.6 |
| 500-238579-8 | HEN_26 | 89.6 | 82.6 | 89.6 | 82.6 | 82.6 | 82.6 |
| 500-238579-8 MS | HEN_26_MS | 84.4 | 77.0 | 84.4 | 77.0 | 77.0 | 77.0 |
| 500-238579-8 MSD | HEN_26_MSD | 88.3 | 81.9 | 88.3 | 81.9 | 81.9 | 81.9 |
| 500-238579-13 | HEN_18&D | 93.1 | 80.4 | 93.1 | 80.4 | 80.4 | 80.4 |
| 500-238579-26 | HEN_27 | 95.3 | 79.3 | 95.3 | 79.3 | 79.3 | 79.3 |
| 500-238579-27 | HEN_35 | 93.5 | 82.2 | 93.5 | 82.2 | 82.2 | 82.2 |
| 500-238579-36 | HEN_XPW01_pore | 30.3 | 85.6 | 30.3 | 85.6 | 85.6 | 85.6 |
| 500-238579-37 | HEN_XPW01_pore_EB | 96.3 | 87.5 | 96.3 | 87.5 | 87.5 | 87.5 |
| 500-238579-38 | HEN_XPW02_pore | 99.3 | 83.7 | 99.3 | 83.7 | 83.7 | 83.7 |
| 500-238579-39 | HEN_XPW02_pore_EB | 93.1 | 83.4 | 93.1 | 83.4 | 83.4 | 83.4 |
| 500-238579-40 | HEN_XPW03_pore | 94.5 | 81.5 | 94.5 | 81.5 | 81.5 | 81.5 |
| 500-238579-41 | HEN_XPW03_pore_EB | 99.5 | 81.5 | 99.5 | 81.5 | 81.5 | 81.5 |
| 500-238579-42 | HEN_257_FB | 99.0 | 83.4 | 99.0 | 83.4 | 83.4 | 83.4 |
| 500-238579-44 | HEN_34 | 99.0 | 82.6 | 99.0 | 82.6 | 82.6 | 82.6 |
| 500-238579-45 | HEN_49 | 91.3 | 84.9 | 91.3 | 84.9 | 84.9 | 84.9 |

Tracer/Carrier Summary

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 3, 2023
HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
HEN 23 Q3 2023
SDG: HEN_SUP_000_0 RAD

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | | | | | |
|--------------------|--------------------|-----------------------------------|---------------|----------------|---------------|---------------|---------------|
| | | Ba (30-110) | Y (30-110) | Ba (30-110) | Y (30-110) | Y (30-110) | Y (30-110) |
| 500-238579-45 MS | HEN_49_MS | 90.6 | 79.6 | 90.6 | 79.6 | 79.6 | 79.6 |
| 500-238579-45 MSD | HEN_49_MSD | 87.1 | 84.1 | 87.1 | 84.1 | 84.1 | 84.1 |
| 500-238579-46 | HEN_22 | 96.0 | 86.7 | 96.0 | 86.7 | 86.7 | 86.7 |
| 500-238579-47 | HEN_50 | 95.0 | 84.1 | 95.0 | 84.1 | 84.1 | 84.1 |
| 500-238579-50 | 845_803_FB | 97.3 | 83.7 | 97.3 | 83.7 | 83.7 | 83.7 |
| 500-238579-51 | HEN_18#S | 93.3 | 81.9 | 93.3 | 81.9 | 81.9 | 81.9 |
| 500-238579-53 | HEN_03R | 89.3 | 84.5 | 89.3 | 84.5 | 84.5 | 84.5 |
| 500-238579-53 MS | HEN_03R_MS | 90.3 | 80.0 | 90.3 | 80.0 | 80.0 | 80.0 |
| 500-238579-53 MSD | HEN_03R_MSD | 94.8 | 89.3 | 94.8 | 89.3 | 89.3 | 89.3 |
| 500-238579-56 | HEN_45#S | 93.5 | 81.9 | 93.5 | 81.9 | 81.9 | 81.9 |
| LCS 160-626177/2-A | Lab Control Sample | 93.1 | 84.1 | 93.1 | 84.1 | 84.1 | 84.1 |
| LCS 160-626179/2-A | Lab Control Sample | 100 | 87.5 | 100 | 87.5 | 87.5 | 87.5 |
| LCS 160-626182/2-A | Lab Control Sample | 94.0 | 81.5 | 94.0 | 81.5 | 81.5 | 81.5 |
| MB 160-626177/1-A | Method Blank | 89.8 | 85.2 | 89.8 | 85.2 | 85.2 | 85.2 |
| MB 160-626179/1-A | Method Blank | 99.3 | 82.2 | 99.3 | 82.2 | 82.2 | 82.2 |
| MB 160-626182/1-A | Method Blank | 94.8 | 90.8 | 94.8 | 90.8 | 90.8 | 90.8 |

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | | | | | | | |
|---------------|------------------|-----------------------------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|
| | | Ba (30-110) | Ba (30-110) | Ba (30-110) | Ba (30-110) | Ba (30-110) | Y (30-110) | Y (30-110) | Y (30-110) |
| 500-238579-28 | HEN_07 | 88.8 | 88.8 | 88.8 | 88.8 | 88.8 | 77.4 | 77.4 | 77.4 |
| 500-238579-30 | HEN_08 | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 81.9 | 81.9 | 81.9 |
| 500-238579-32 | HEN_08&D | 93.1 | 93.1 | 93.1 | 93.1 | 93.1 | 82.6 | 82.6 | 82.6 |
| 500-238579-34 | HEN_08_FD | 91.6 | 91.6 | 91.6 | 91.6 | 91.6 | 85.6 | 85.6 | 85.6 |

Percent Yield (Acceptance Limits)

| Lab Sample ID | Client Sample ID | Y (30-110) | Y (30-110) |
|---------------|------------------|---------------|---------------|
| | | 500-238579-28 | HEN_07 |
| 500-238579-30 | HEN_08 | 81.9 | 81.9 |
| 500-238579-32 | HEN_08&D | 82.6 | 82.6 |
| 500-238579-34 | HEN_08_FD | 85.6 | 85.6 |

Tracer/Carrier Legend

Ba = Ba Carrier
Y = Y Carrier

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | | | |
|---------------|------------------|-----------------------------------|----------------|---------------|---------------|
| | | Ba (30-110) | Ba (30-110) | Y (30-110) | Y (30-110) |
| 500-238579-2 | HEN_22&D | 91.3 | 91.3 | 81.9 | 81.9 |
| 500-238579-15 | HEN_12 | 95.8 | 95.8 | 80.0 | 80.0 |
| 500-238579-16 | HEN_13 | 85.4 | 85.4 | 77.4 | 77.4 |

Eurofins Chicago

Tracer/Carrier Summary

ATTACHMENT B.
 845 QUARTERLY REPORT - QUARTER 3, 2023
 HENNEPIN POWER PLANT, ASH PONDS NO. 2 AND NO. 4

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

Job ID: 500-238579-10
 HEN-23-802-006
 SDG: HEN_SUP_000_0 RAD

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Yield (Acceptance Limits) | | | |
|---------------|------------------|-----------------------------------|----------------|---------------|---------------|
| | | Ba (30-110) | Ba (30-110) | Y (30-110) | Y (30-110) |
| 500-238579-18 | HEN_46 | 90.1 | 90.1 | 80.4 | 80.4 |
| 500-238579-19 | HEN_47 | 93.1 | 93.1 | 79.3 | 79.3 |
| 500-238579-20 | HEN_54 | 91.8 | 91.8 | 79.3 | 79.3 |
| 500-238579-25 | HEN_52 | 89.6 | 89.6 | 74.8 | 74.8 |
| 500-238579-58 | HEN_16 | 99.3 | 99.3 | 83.4 | 83.4 |
| 500-238579-59 | HEN_17 | 93.5 | 93.5 | 83.4 | 83.4 |
| 500-238579-60 | HEN_17-FD | 91.1 | 91.1 | 77.8 | 77.8 |

Tracer/Carrier Legend

Ba = Ba Carrier

Y = Y Carrier



SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 must be collected within 24 hours.

Plant: HEN
 Event: HEN-23Q3 Rev 0

| Well | Unique ID | Date | Time | Measured Depth to Water (ft bmp) | Comments | Initials |
|-------|-----------------|---------|------|----------------------------------|----------------------------------|----------|
| 02 | HEN_02 | 8/21/23 | 1200 | 41.84 | | CF |
| 04R | HEN_04R | 8/21/23 | 1035 | 37.08 | | CF |
| 05R | HEN_05!R | 8/21/23 | 1105 | 38.69 | | CF |
| 05DR | HEN_05&DR | 8/21/23 | 1115 | 38.73 | | CF |
| 06 | HEN_06 | 8/21/23 | 1140 | 20.8 | | CF |
| 10 | HEN_10 | 8/21/23 | 0955 | 48.28 | | CF |
| 11 | HEN_11 | 8/21/23 | 0950 | 48.33 | | CF |
| 15 | HEN_15 | 8/21/23 | 1030 | 47.19 | | CF |
| 19S | HEN_19#S | 8/21/23 | 1045 | 37.2 | | CF |
| 19D | HEN_19&D | 8/21/23 | 1040 | 37.34 | | CF |
| 25 | HEN_25 | 8/22/23 | 0945 | 14.02 13.5 | * could not | CF |
| 26 | HEN_26 | 8/22/23 | 0940 | 13.26 | | CF |
| 30 | HEN_30 | 8/22/23 | 1000 | 4.85 | | CF |
| 31 | HEN_31 | 8/22/23 | 0955 | 4.85 | | CF |
| 33 | HEN_33 | 8/22/23 | 1018 | 2.8 | | CF |
| 36 | HEN_36 | 8/22/23 | 0930 | 13.58 | | CF |
| 40S | HEN_40#S | 8/21/23 | 1050 | 37.92 | | CF |
| 45S | HEN_45#S | 8/21/23 | 1125 | 18.98 | | CF |
| 48 | HEN_48 | 8/21/23 | 1055 | N/A | * could not measure due to block | CF |
| XPW01 | HEN_XPW01_pore | 8/21/23 | 1005 | 9.45 | | CF |
| XPW02 | HEN_XPW02_pore | 8/21/23 | 1010 | 14.19 | | CF |
| XPW03 | HEN_XPW03_pore | 8/21/23 | 1020 | 4.86 | | CF |
| XSG01 | HEN_XSG01 | | | | | |
| SG02 | HEN_YSG_ILRIVER | | | | | |

Monitoring Well Evaluation Checklist

| Site <u>Hennepin, IL</u> Inspection Date <u>8/21/23 @ 1140</u> Well Number <u>HEN-00</u> | Major wells repairs* required to maintain well integrity? <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | | | | | | | | | | | |
|---|--|-----------------|----|----|--|---|---|--|---|---|---|---|---|---|--|---|---|--|--|--|
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | |
| Stick-up Monitoring Wells | | Comments | | | | | | | | | | | | | | | | | | |
| 1. Outer protective Casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> <tr> <td></td> <td style="font-size: 2em;">↓</td> <td></td> </tr> <tr> <td></td> <td style="font-size: 2em;">↓</td> <td></td> </tr> </table> | Yes | No | NA | | X | | | ↓ | | | ↓ | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | |
| 2. Inner casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> <tr> <td></td> <td style="font-size: 2em;">↓</td> <td></td> </tr> <tr> <td></td> <td style="font-size: 2em;">↓</td> <td></td> </tr> </table> | Yes | No | NA | | X | | | ↓ | | | ↓ | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | |
| 3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition? | <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> <tr> <td style="font-size: 2em;">X</td> <td></td> <td></td> </tr> <tr> <td style="font-size: 2em;">↓</td> <td></td> <td></td> </tr> <tr> <td style="font-size: 2em;">↓</td> <td></td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | X | X | | | ↓ | | | ↓ | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | |
| ↓ | | | | | | | | | | | | | | | | | | | | |
| ↓ | | | | | | | | | | | | | | | | | | | | |
| Flushmount Monitoring Wells | | | | | | | | | | | | | | | | | | | | |
| 8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present? | <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> </table> | Yes | No | NA | | | X | | | ↓ | | | ↓ | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | |
| | | ↓ | | | | | | | | | | | | | | | | | | |
| | | ↓ | | | | | | | | | | | | | | | | | | |
| All Monitoring Wells | | | | | | | | | | | | | | | | | | | | |
| Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well. | <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td style="font-size: 2em;">X</td> </tr> <tr> <td></td> <td style="font-size: 2em;">↓</td> <td></td> </tr> <tr> <td></td> <td style="font-size: 2em;">↓</td> <td></td> </tr> </table> ft ft <u>31.09ft</u> | Yes | No | NA | | X | X | | ↓ | | | ↓ | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | X | X | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | |
| General Condition 18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled? | <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="font-size: 2em;">X</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">X</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> <tr> <td></td> <td></td> <td style="font-size: 2em;">↓</td> </tr> <tr> <td style="font-size: 2em;">X</td> <td></td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | X | | | ↓ | | | ↓ | X | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | |
| | | ↓ | | | | | | | | | | | | | | | | | | |
| | | ↓ | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | |
| Comments: <div style="text-align: center; font-size: 1.2em;"> DTW: 20.80 ft pump installed </div> | | | | | | | | | | | | | | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | | | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| | | | | |
|---|--|------------|-----------|-----------|
| Site <u>Hennepin, IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/11/23 @ 10:45</u> | | | X | |
| Well Number <u>HEN-195</u> | | | | |

| | | | | <u>Comments</u> |
|--|-----|-------|----|-----------------|
| <u>Stick-up Monitoring Wells</u> | | | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | ↓ | |
| 12. Is there a lock present? | | | | |
| <u>All Monitoring Wells</u> | | | | |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — | ft | | |
| 16. Installed as total depth. | | ft | | |
| 17. Measured total depth of well. | | 39.92 | ft | |
| General Condition | | | | |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| <u>DTW: 37.2ft pump installed</u> | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

| | | | | |
|---|--|------------------------|-----------|-----------|
| Site <u>Hennepin, IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/21/23 @ 1040</u> | | | X | |
| Well Number <u>HEN-19D</u> | | | | |
| <u>Stick-up Monitoring Wells</u> | | <u>Comments</u> | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | ↓ | |
| 12. Is there a lock present? | | | ↓ | |
| <u>All Monitoring Wells</u> | | | | |
| <u>Downhole Condition</u> | | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | | X |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — | ft | | |
| 16. Installed as total depth? | | ft | | |
| 17. Measured total depth of well. | | 62.55 | ft | |
| <u>General Condition</u> | | Yes | No | NA |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | ↓ | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| <u>DTW: 37.34 p/m p in well</u> | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | |

| | | | | |
|--|--|-----------------|-----------|-----------|
| Site Hennipen, IL | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date 8/21/23 @ 1035 | | | X | |
| Well Number HEN-04R | | | | |
| Stick-up Monitoring Wells | | Comments | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | | ↓ | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | ↓ | | |
| Flushmount Monitoring Wells | | Yes | No | NA |
| 8. Can the lid be secured tightly? | | | | X |
| 9. Does the lid have a gasket that seals? | | | | ↓ |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | ↓ |
| 12. Is there a lock present? | | | | ↓ |
| All Monitoring Wells | | Yes | No | NA |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | | X | | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | | | X |
| If present, how much sediment? | | | | X |
| 16. Installed as total depth. | - ft | | | |
| 17. Measured total depth of well. | ft | | | |
| | 42.78ft | | | |
| General Condition | | Yes | No | NA |
| 18. Concrete pad installed? | | X | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | | X | |
| 21. Well clearly visible and labeled? | | X | | |
| Comments: | | | | |
| PAD IS CRACKED + MAY NEED REPAIRS 37.08 DTW | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

| | | | | | |
|-----------------|---------------------|---|-----|----|----|
| Site | <u>Hennepin, IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date | <u>8/21/23</u> | | | X | |
| Well Number | <u>HEN-15</u> | | | | |

Stick-up Monitoring Wells

Comments

| | Yes | No | NA | |
|--|-----|----|----|--|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |

Flushmount Monitoring Wells

| | Yes | No | NA | |
|---|--------------|----|----|--|
| 8. Can the lid be secured tightly? | X | | X | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | ↓ | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

| | Yes | No | NA | |
|---|-----|----|----|---------|
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | | | | |
| 16. Installed as total depth. | | | | |
| 17. Measured total depth of well. | | | | 50.3 ft |

General Condition

| | Yes | No | NA | |
|--|-----|----|----|--|
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:
Contains pump! DTW: 47.19ft
Top of pump: 50.3ft

* Major well repair are those that require a subcontractor or separate mobilization to complete

| | | | | |
|--|--|------------|-------------------------------------|-----------|
| Site <u>Hennepin, IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/21/23 @ 0950</u> | | | <input checked="" type="checkbox"/> | |
| Well Number <u>11</u> | | | | |

| <u>Stick-up Monitoring Wells</u> | | | | <u>Comments</u> |
|--|-------------------------------------|-------------------------------------|-------------------------------------|-----------------|
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | | <input checked="" type="checkbox"/> | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | <input checked="" type="checkbox"/> | | |
| Not cracked | | <input checked="" type="checkbox"/> | | |
| Not loose | | <input checked="" type="checkbox"/> | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| | | <input checked="" type="checkbox"/> | | |
| 4. Weep holes able to drain? | | | <input checked="" type="checkbox"/> | |
| 5. Is there a lockable cap present? | <input checked="" type="checkbox"/> | | | |
| 6. Is there a lock present? | <input checked="" type="checkbox"/> | | | |
| 7. Bumper posts in good condition? | <input checked="" type="checkbox"/> | | | |
| <u>Flushmount Monitoring Wells</u> | Yes | No | NA | |
| 8. Can the lid be secured tightly? | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 9. Does the lid have a gasket that seals? | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 10. No water in the flushmount? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 11. Is the well cap lockable? | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| 12. Is there a lock present? | <input checked="" type="checkbox"/> | | <input checked="" type="checkbox"/> | |
| <u>All Monitoring Wells</u> | Yes | No | NA | |
| <u>Downhole Condition</u> | <input checked="" type="checkbox"/> | | | |
| 12. Water level measuring point clearly marked? | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | | <input checked="" type="checkbox"/> | | |
| If present, how much sediment? | | | | |
| 16. Installed as total depth. | | | | |
| 17. Measured total depth of well. | | | | <u>106.3ft</u> |
| <u>General Condition</u> | Yes | No | NA | |
| 18. Concrete pad installed? | <input checked="" type="checkbox"/> | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | <input checked="" type="checkbox"/> | | |
| Not heaved or below surrounding grade? | | <input checked="" type="checkbox"/> | | |
| 20. No surface seal settling? | | <input checked="" type="checkbox"/> | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |
| Comments: | | | | |
| | <u>DTN: 48.83ft</u> | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/22/23 Time: 0800
 Field Personnel: Allison Beckett Finish Date: _____ Time: 1015

| | | | |
|----------------------------|--|--|--|
| WELL INFORMATION | | EVENT TYPE | |
| Well ID: <u>HEN-220</u> | <input type="checkbox"/> Well Development | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | |
| Casing ID: <u>2</u> inches | <input type="checkbox"/> Well Volume Approach Sampling | <input type="checkbox"/> Other (Specify): | |

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | ±10% Temp. (°C) | ±0.1 pH (SU) | SEC or ±0.1 Cond. (µs/cm) | Dissolved ±0.5 Oxygen (mg/L) | ±5% or ±1 Turbidity (NTU) | ±1.0 ORP (mV) | Visual Clarity |
|----------------|-----------------|--------------------------|-----------------------|-----------------|-----------------|--------------|---------------------------|------------------------------|---------------------------|---------------|----------------|
| | 0819 | | | | 19.1 | 7.56 | 0.712 | 3.04 | 3.87 | -12.6 | clear |
| | 0824 | | | | 17.9 | 7.35 | 0.722 | 1.06 | 6.12 | -68.0 | |
| | 0829 | | | | 17.8 | 7.29 | 0.728 | 1.07 | 10.02 | -66.0 | |
| | 0834 | | | | 17.7 | 7.29 | 0.729 | 0.85 | 11.3 | -72.0 | |
| | 0839 | 2.0 | | | 18.2 | 7.29 | 0.730 | 0.84 | 42.11 | -75.7 | |
| | 0844 | | | | 18.6 | 7.30 | 0.730 | 0.87 | 12.9 | -79.6 | |
| 30 | 0849 | | | | 19.0 | 7.30 | 0.731 | 0.85 | 21.43 | -81.7 | |
| 40 | 0854 | | | | 18.0 | 7.30 | 0.729 | 0.05 | 27.0 | -84.1 | |
| 40 | 0859 | | | | 17.7 | 7.30 | 0.731 | 0.83 | 26.2 | -83.0 | |
| 45 | 0904 | 3.5 | | | 18.0 | 7.30 | 0.731 | 0.91 | 24.8 | -82.1 | |

| | | | | | | | | | | |
|--|--|-----------------------------|-------------------------------------|------------------------------------|---------------------------------------|---------------------|---------------------|-------------------|--------------------|--|
| <p align="center">NOTES (continued)</p> <p>Samples taken @ 0910</p> <p>Ferrous iron: Under range @ 0920</p> | ABBREVIATIONS | | | | | | | | | |
| | <table border="0"> <tr> <td>Cond. - Actual Conductivity</td> <td>ORP - Oxidation-Reduction Potential</td> </tr> <tr> <td>FT BTOC - Feet Below Top of Casing</td> <td>SEC - Specific Electrical Conductance</td> </tr> <tr> <td>na - Not Applicable</td> <td>SU - Standard Units</td> </tr> <tr> <td>nm - Not Measured</td> <td>Temp - Temperature</td> </tr> <tr> <td></td> <td>*C - Degrees Celsius</td> </tr> </table> | Cond. - Actual Conductivity | ORP - Oxidation-Reduction Potential | FT BTOC - Feet Below Top of Casing | SEC - Specific Electrical Conductance | na - Not Applicable | SU - Standard Units | nm - Not Measured | Temp - Temperature | |
| Cond. - Actual Conductivity | ORP - Oxidation-Reduction Potential | | | | | | | | | |
| FT BTOC - Feet Below Top of Casing | SEC - Specific Electrical Conductance | | | | | | | | | |
| na - Not Applicable | SU - Standard Units | | | | | | | | | |
| nm - Not Measured | Temp - Temperature | | | | | | | | | |
| | *C - Degrees Celsius | | | | | | | | | |

P 1 of 1

Monitoring Well Evaluation Checklist

| Site <u>Hennepin, IL</u> Inspection Date <u>8/22/23 @ 1200</u> Well Number <u>HEN-23</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA | | | | | | | | | | | | | | | | | | | | | |
|---|---|-----------------|----|----|--|---|---|--|---|---|---|---|---|---|----|--|---|----|--|---|----|--|--|--|--|
| | | | X | | | | | | | | | | | | | | | | | | | | | | |
| Stick-up Monitoring Wells | | Comments | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Outer protective Casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table> | Yes | No | NA | | X | | | ↓ | | | | | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2. Inner casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table> | Yes | No | NA | | X | | | ↓ | | | | | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
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| 3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition? | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td style="text-align: center;">X</td><td></td><td></td></tr> <tr><td style="text-align: center;">↓</td><td></td><td></td></tr> </table> | Yes | No | NA | | X | | | | X | X | | | ↓ | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
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| Flushmount Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present? | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td></td><td></td><td style="text-align: center;">↓</td></tr> </table> | Yes | No | NA | | | X | | | ↓ | | | | | | | | | | | | | | | |
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| All Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | | | |
| Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well. | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> <tr><td>—</td><td>ft</td><td></td></tr> <tr><td>—</td><td>ft</td><td></td></tr> <tr><td>—</td><td>ft</td><td></td></tr> </table> | Yes | No | NA | | | X | | X | | | ↓ | | — | ft | | — | ft | | — | ft | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
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| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
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| Comments: | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>DTW: in app</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | | | | | | | | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| | | | | |
|--|--|------------|-----------|-----------------|
| Site <u>Hennepin, FL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/22/23 @ 1308</u> | | | X | |
| Well Number <u>HEON-21R</u> | | | | |
| Stick-up Monitoring Wells | | | | |
| 1. Outer protective Casing | Yes | No | NA | Comments |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | X | |
| | | | | |
| | | | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | ↓ | |
| All Monitoring Wells | | | | |
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | | | | |
| 16. Installed as total depth. | | | | |
| 17. Measured total depth of well. | | | | |
| | ft | | | |
| | ft | | | |
| | ft | | | |
| General Condition | | | | |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
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* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/22/23 Time: 1300
 Field Personnel: Allison Beckert Finish Date: _____ Time: 1430

| WELL INFORMATION | EVENT TYPE |
|---|--|
| Well ID: <u>HEN-21R</u> Casing ID: <u>2</u> inches | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ |

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (Military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|----------------|----------------------|--------------------------|-----------------------|-----------------|------------|---------|----------------------|-------------------------|-----------------|----------|----------------|
| | 1311 1311 | | | | 17.8 | 7.56 | 0.768 | 1.17 | 59.8 | -129.4 | Clear |
| | 1316 1316 | | | | 17.3 | 7.54 | 0.764 | 1.22 | 58.5 | -139.8 | ✓ |
| | 1321 1321 | | | | 17.2 | 7.54 | 0.705 | 1.06 | 41.69 | -139.9 | Brownish |
| | 1326 1326 | | | | 17.1 | 7.53 | 0.768 | 1.18 | 33.94 | -130.1 | |
| | 1331 | 2.5 | | | 17.9 | 7.52 | 0.765 | 0.95 | 34.3 | -137.2 | |
| | 1336 1336 | | | | 17.1 | 7.53 | 0.763 | 0.93 | 32.3 | -134.9 | |
| 30 | 1341 | 3.0 | | | 16.6 | 7.51 | 0.742 | 0.21 | 34.8 | -136.3 | |
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| NOTES (continued) | ABBREVIATIONS |
|--|--|
| <p>Samples taken @ 1345</p> <p>ferrous iron: 0.916 ppm</p> | <p>Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celsius</p> |

P 1 of 1

Monitoring Well Evaluation Checklist

| Site <u>Hennepin IL</u> Inspection Date <u>8/22/23 @ 1:15</u> Well Number <u>HEN-51 5</u> | Major wells repairs* required to maintain well integrity? <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|-----|----|----|---|---|---|--|---|---|--|---|--|--|--|--|------|--|---|------|----|----|------|-------|--|--|---|--|--|--|--|--|--|--|--|---|--|--|--|---|---|--|--|---|--|--|---|--|--|--|----------|--|--|--|--|--|
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Stick-up Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Outer protective Casing Not corroded Not dented Not cracked Not loose 2. Inner casing Not corroded Not dented Not cracked Not loose 3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition? | <table border="1" style="width: 100%; text-align: center;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>↓</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>↓</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td>X</td> </tr> <tr> <td>X</td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td></td> <td></td> </tr> <tr> <td>↓</td> <td></td> <td></td> </tr> </table> | Yes | No | NA | | X | | | ↓ | | | | | | | | | | | Yes | No | NA | | X | | | ↓ | | | | | | | | | X | | | | X | X | | | ↓ | | | ↓ | | | <table border="1" style="width: 100%; text-align: center;"> <tr> <th colspan="3">Comments</th> </tr> <tr> <td colspan="3" style="height: 100px;"> </td> </tr> </table> | Comments | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| All Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: DTW on app | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| | | | | | |
|------------------------|----------------|--|-----|----|----|
| Site | Hennepin, IL | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date | 8/21/23 @ 1530 | | | X | |
| Well Number | HEC-22 | | | | |

Stick-up Monitoring Wells

| | Yes | No | NA | |
|---|-----|----|--------------|-----------------|
| 1. Outer protective Casing | | | | Comments |
| Not corroded | | X | X | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |

Flushmount Monitoring Wells

| | Yes | No | NA | |
|--|-----|----|----|--|
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | ↓ | |
| 12. Is there a lock present? | | | ↓ | |

All Monitoring Wells

Downhole Condition

| | Yes | No | NA | |
|--|-----|----|----|-----------|
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | | | | |
| — ft | | | | |
| 16. Installed as total depth. | | | | |
| 17. Measured total depth of well. | | | | |
| | | | | ← on papp |

General Condition

| | Yes | No | NA | |
|--|-----|----|----|--|
| 18. Concrete pad installed? | | X | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | | X | |
| Not deteriorated? | | | ↓ | |
| Not heaved or below surrounding grade? | | | ↓ | |
| 20. No surface seal settling? | | | ↓ | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW = on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--|-------------|----------------------------|---|--|--------------------|--------------|----------------|
| Site: <u>Hennepin, IL</u> | | | | Client: <u>Ramboll</u> | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | | Start Date: <u>8/25/23</u> | | | Time: <u>08:15</u> | | |
| Field Personnel: <u>ALISON BECKETT</u> | | | | Finish Date: _____ | | | | Time: <u>09:20</u> | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>HEN-22</u> | | | | <input type="checkbox"/> Well Development | | | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: <u>2</u> inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| | <u>0821</u> | | | | <u>14.2</u> | <u>7.08</u> | <u>0.656</u> | <u>1.47</u> | <u>4.00</u> | <u>113.9</u> | <u>Clear</u> |
| | <u>0824</u> | | | | <u>16.1</u> | <u>7.68</u> | <u>0.653</u> | <u>0.27</u> | <u>4.10</u> | <u>92.6</u> | |
| | <u>0831</u> | <u>2.5</u> | | | <u>16.1</u> | <u>7.69</u> | <u>0.653</u> | <u>0.18</u> | <u>4.14</u> | <u>87.2</u> | |
| | <u>0836</u> | | | | <u>16.1</u> | <u>7.68</u> | <u>0.653</u> | <u>0.14</u> | <u>4.20</u> | <u>78.8</u> | |
| | <u>0841</u> | <u>5</u> | | | <u>16.1</u> | <u>7.68</u> | <u>0.653</u> | <u>0.13</u> | <u>4.24</u> | <u>77.6</u> | |
| | <u>0846</u> | <u>5.5</u> | | | <u>16.1</u> | <u>7.67</u> | <u>0.653</u> | <u>0.12</u> | <u>4.31</u> | <u>77.8</u> | |
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| NOTES (continued) | | | | | | | ABBREVIATIONS | | | | |
| <p><u>Samples taken @ 0850</u></p> <p><u>Ferrous iron sample @ 0920: under range</u></p> | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | |
| | | | | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | | |

| | | | | |
|---|---|-----------------|----|----|
| Site | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>2/22/23</u> | | | X | |
| Well Number <u>HW 32</u> | | | | |
| Stick-up Monitoring Wells | | Comments | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |
| Flushmount Monitoring Wells | | Yes | No | NA |
| 8. Can the lid be secured tightly? | / | | | |
| 9. Does the lid have a gasket that seals? | / | | | |
| 10. No water in the flushmount? | / | | | |
| 11. Is the well cap lockable? | / | | | |
| 12. Is there a lock present? | / | | | |
| All Monitoring Wells | | Yes | No | NA |
| Downhole Condition | | | X | |
| 12. Water level measuring point clearly marked? | | ↓ | | |
| 13. No obstructions in well? | | ↓ | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| General Condition | | Yes | No | NA |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | X | | |
| Slope away from casing? | | ↓ | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | ↓ | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| | | | | |
| | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | |

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--------------------|-------------|--|----------------------|---|-------------------------|--------------|----------------|---|--|--|--|
| Site: <u>HENNEPIN</u> | | | | Client: _____ | | | | Time: <u>1035</u> | | | | | | | |
| Project Number: <u>2023 0711</u> | | | | Task #: _____ | | | | Start Date: <u>8/22/23</u> | | | | | | | |
| Field Personnel: <u>C. TREMBLAY</u> | | | | Finish Date: _____ | | | | Time: <u>1135</u> | | | | | | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | | | | | |
| Well ID: <u>Hen-32</u> | | | | | | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | |
| Casing ID: _____ inches | | | | | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | 10. L10 Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| <u>PRE</u> | <u>1040</u> | <u>1</u> | | | <u>3%</u> | <u>7.1</u> | <u>3%</u> | <u>10%</u> | 41.69 | <u>+10</u> | <u>CLEAR</u> | | | | |
| <u>SAMPLE</u> | <u>1048</u> | | | | <u>14.0</u> | <u>7.10</u> | <u>0.718</u> | <u>0.45</u> | <u>41.69</u> | <u>123.6</u> | | | | | |
| | <u>1053</u> | | | | <u>13.9</u> | <u>7.11</u> | <u>0.716</u> | <u>0.21</u> | <u>20.60</u> | <u>165.2</u> | | | | | |
| | <u>1058</u> | | | | <u>13.8</u> | <u>7.10</u> | <u>0.715</u> | <u>0.12</u> | <u>13.02</u> | <u>160.1</u> | | | | | |
| | <u>1103</u> | <u>3</u> | | | <u>13.8</u> | <u>7.10</u> | <u>0.715</u> | <u>0.09</u> | <u>8.77</u> | <u>156.9</u> | | | | | |
| | <u>1108</u> | | | | <u>13.8</u> | <u>7.10</u> | <u>0.716</u> | <u>0.09</u> | <u>7.30</u> | <u>153.9</u> | | | | | |
| | <u>1113</u> | <u>3.25</u> | | | <u>13.8</u> | <u>7.07</u> | <u>0.715</u> | <u>0.09</u> | <u>5.33</u> | <u>151.7</u> | | | | | |
| | 1118 | | | | | | | | | | | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <u>SAMPLE @ 1115</u> <u>FI UNDERWAY</u> | | | | | | | | Cond. - Actual Conductivity FT BTOP - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius | | | |
| | | | | | | | | | | | | | | | |

| | | | | |
|---|--|------------------------|--------------|-----------------|
| Site <u>HENNEPIN</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/22/23</u> | | | | |
| Well Number <u>33 @ 1018</u> | | | | |
| <u>Stick-up Monitoring Wells</u> | | <u>Comments</u> | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | | X | | |
| 7. Bumper posts in good condition? | X | X | X | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | / | | | |
| 10. No water in the flushmount? | / | | | |
| 11. Is the well cap lockable? | / | | | |
| 12. Is there a lock present? | / | | | |
| <u>All Monitoring Wells</u> | | | | |
| <u>Downhole Condition</u> | | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | | X |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | <u>36-12</u> ft | | | |
| <u>General Condition</u> | | Yes | No | NA |
| 18. Concrete pad installed? | | | | X |
| 19. Concrete pad | | | | |
| Slope away from casing? | | | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | ↓ |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | | X | | overgrown weeds |
| Comments: | | | | |
| <u>DTW</u> | | | | |
| <u>same as well</u> | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

| | | | | |
|---|--|------------------------|---------------|-----------|
| Site | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>2/22/23 @ 0955</u> | | | | |
| Well Number <u>30</u> | | | | |
| <u>Stick-up Monitoring Wells</u> | | <u>Comments</u> | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| <u>All Monitoring Wells</u> | | | | |
| <u>Downhole Condition</u> | | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | | X |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | 8 ft | | | |
| <u>General Condition</u> | | Yes | No | NA |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| <u>DTW 4.85</u> | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | |

| | | | | |
|--|--|------------------------|-----------|----------------|
| Site <u>HENNEPIN</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/22 0945</u> | | | | |
| Well Number <u>HEN 25</u> | | | | |
| <u>Stick-up Monitoring Wells</u> | | <u>Comments</u> | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | X | | X | |
| 5. Is there a lockable cap present? | X | X | | |
| 6. Is there a lock present? | | X | | |
| 7. Bumper posts in good condition? | X | | | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | / | | | |
| 9. Does the lid have a gasket that seals? | / | | | |
| 10. No water in the flushmount? | / | | | |
| 11. Is the well cap lockable? | / | | | |
| 12. Is there a lock present? | / | | | |
| <u>All Monitoring Wells</u> | | | | |
| <u>Downhole Condition</u> | | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | | X |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | 15.71 ft | | | w/o pump 25.71 |
| <u>General Condition</u> | | Yes | No | NA |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| <u>WELL HAS PUMP * WHEN SFT UP TO SAMPLE NOTICED BRASS</u> | | | | |
| <u>DTW 14.02 FITTING HAD CRACK</u> | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

DTW w/o pump 135

| PROJECT INFORMATION | | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--------------------|--|---------|---|----------------------------|------------------|-------------------|----------------|---|--|--|--|--|
| Site: _____ | | | Client: _____ | | | | | | | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: <u>8/22/23</u> | | Time: <u>1335</u> | | | | | | |
| Field Personnel: <u>L. Tromblay</u> | | | | Finish Date: _____ | | | | Time: <u>1455</u> | | | | | | | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | | | | | | |
| Well ID: <u>25</u> | | | | | <input type="checkbox"/> Well Development | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | | |
| Casing ID: _____ inches | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | | |
| PRA | 1342 | | 13.8' | | | | | | | | Cloudy | | | | | |
| PURGE | 1348 | 0.25 | 13.51 | | | | | | 65.57 | | CLEAR | | | | | |
| SAMPLE | 1350 | | 13.51 | ∅ | 17.0 | 7.25 | 0.519 | 1.52 | 65.57 | 171.1 | | | | | | |
| | 1355 | | | | 16.6 | 7.25 | 0.519 | 1.46 | 42.11 | 171.7 | | | | | | |
| | 1400 | | | | 16.6 | 7.24 | 0.517 | 1.46 | 26.88 | 172.4 | | | | | | |
| | 1405 | | 13.51 | ∅ | 16.6 | 7.24 | 0.516 | 1.48 | 17.97 | 173.8 | | | | | | |
| | 1410 | | | | 16.8 | 7.23 | 0.516 | 1.51 | 13.11 | 174.6 | | | | | | |
| | 1415 | 3 | | | 16.6 | 7.23 | 0.516 | 1.52 | 9.47 | 175.2 | | | | | | |
| | 1420 | | | | 16.5 | 7.22 | 0.514 | 1.56 | 8.29 | 175.9 | | | | | | |
| | 1425 | 4 | 13.51 | ∅ | 16.6 | 7.22 | 0.514 | 1.59 | 6.43 | 176.5 | | | | | | |
| | 1430 | | | | | | | | | | | | | | | |
| NOTES (continued) | | | | | | | ABBREVIATIONS | | | | | | | | | |
| * ∅ GEOTECH PUMP FE - UNDERWAY SAMPLE @ 1430 | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | | |
| | | | | | | | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| | | | | |
|--|--|------------|-----------|-----------|
| Site <u>HENNEPIN</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8-22-23 0940</u> | | | | |
| Well Number <u>HEN 26</u> | | | | |

Stick-up Monitoring Wells

Comments

| | Yes | No | NA | |
|--|-----|----|----|--|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | X | | |
| 6. Is there a lock present? | | | X | |
| 7. Bumper posts in good condition? | X | | | |

Flushmount Monitoring Wells

| | Yes | No | NA | |
|---|-----|----|----|--|
| 8. Can the lid be secured tightly? | / | | | |
| 9. Does the lid have a gasket that seals? | / | | | |
| 10. No water in the flushmount? | / | | | |
| 11. Is the well cap lockable? | / | | | |
| 12. Is there a lock present? | / | | | |

All Monitoring Wells

Downhole Condition

| | Yes | No | NA | |
|---|-----|----|----|---------|
| 12. Water level measuring point clearly marked? | | X | | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | X | | | |
| ft | | | | |
| 16. Installed as total depth. | | | | |
| ft | | | | |
| 17. Measured total depth of well. | | | | 24.1 ft |

General Condition

| | Yes | No | NA | |
|--|-----|----|----|--|
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | ↓ | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

Well HAS pump
DTW 13.26'

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|----------------------------|--|-------------|--|----------------------|---|--------------------|--------------|----------------|
| Site: _____ | | | Client: _____ | | | Project Number: _____ | | | Task #: _____ | | |
| Field Personnel: <u>TREMBLAY</u> | | | Start Date: <u>8/22/23</u> | | | Time: <u>1455</u> | | | Finish Date: _____ | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>26</u> | | | | <input type="checkbox"/> Well Development | | | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: _____ inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| <u>PURGE</u> | <u>1500</u> | <u>0.1</u> | <u>13.8</u> | | | | | | | | <u>CLEAR</u> |
| <u>SAMPLE</u> | <u>1506</u> | | <u>13.8</u> | | <u>17.3</u> | <u>7.09</u> | <u>0.784</u> | <u>0.51</u> | <u>2.31</u> | <u>186.1</u> | |
| | <u>1511</u> | | | | <u>17.2</u> | <u>7.09</u> | <u>0.784</u> | <u>0.18</u> | <u>2.37</u> | <u>183.6</u> | |
| | <u>1516</u> | <u>1.5</u> | | | <u>17.1</u> | <u>7.09</u> | <u>0.784</u> | <u>0.10</u> | <u>2.40</u> | <u>181.8</u> | |
| | <u>1521</u> | | | | <u>17.0</u> | <u>7.09</u> | <u>0.785</u> | <u>0.04</u> | <u>2.41</u> | <u>179.9</u> | |
| | <u>1526</u> | | | | <u>17.0</u> | <u>7.09</u> | <u>0.784</u> | <u>0.02</u> | <u>2.44</u> | <u>178.6</u> | |
| | <u>1531</u> | <u>3.0</u> | <u>13.9</u> | <u>-0.1</u> | <u>16.9</u> | <u>7.09</u> | <u>0.784</u> | <u>0.02</u> | <u>2.50</u> | <u>177.0</u> | |
| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| <u>FR UNDERWAY</u> <u>SAMPLE @ 1535</u> | | | | | | Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celcius | | | | | |
| | | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| | | | | | |
|---|--|-----------------|-----------|-----------|--|
| Site <u>Hennepin IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA | |
| Inspection Date <u>8/23/23 @ 1350</u> | | | X | | |
| Well Number <u>HEN-47</u> | | | | | |
| Stick-up Monitoring Wells | | Comments | | | |
| 1. Outer protective Casing | | Yes | No | NA | |
| Not corroded | | | X | | |
| Not dented | | | | | |
| Not cracked | | | | | |
| Not loose | | | | | |
| 2. Inner casing | | Yes | No | NA | |
| Not corroded | | | X | | |
| Not dented | | | | | |
| Not cracked | | | | | |
| Not loose | | | | | |
| 3. Are there weep holes in outer casing? | | Yes | No | NA | |
| 4. Weep holes able to drain? | | | X | | |
| 5. Is there a lockable cap present? | | X | | | |
| 6. Is there a lock present? | | X | | | |
| 7. Bumper posts in good condition? | | | | X | |
| Flushmount Monitoring Wells | | Yes | No | NA | |
| 8. Can the lid be secured tightly? | | | | X | |
| 9. Does the lid have a gasket that seals? | | | | | |
| 10. No water in the flushmount? | | | | | |
| 11. Is the well cap lockable? | | | | | |
| 12. Is there a lock present? | | | | X | |
| All Monitoring Wells | | Yes | No | NA | |
| Downhole Condition | | | | | |
| 12. Water level measuring point clearly marked? | | | | X | |
| 13. No obstructions in well? | | | X | | |
| 14. No plant roots or vegetation in well? | | | | | |
| 15. No sediment in bottom of well? | | | | | |
| If present, how much sediment? | | — | ft | | |
| 16. Installed as total depth. | | — | ft | | |
| 17. Measured total depth of well. | | — | ft | | |
| General Condition | | Yes | No | NA | |
| 18. Concrete pad installed? | | X | | | |
| 19. Concrete pad | | | | | |
| Slope away from casing? | | | X | | |
| Not deteriorated? | | | | | |
| Not heaved or below surrounding grade? | | | | | |
| 20. No surface seal settling? | | | | | |
| 21. Well clearly visible and labeled? | | X | | | |
| Comments: | | | | | |
| <u>DTW: on app</u> | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | |

| PROJECT INFORMATION | | | |
|---|--------------------|----------------------------|-------------------|
| Site: <u>Hennepin, IL</u> | Client: _____ | | |
| Project Number: _____ | Task #: _____ | Start Date: <u>8/23/23</u> | Time: <u>1055</u> |
| Field Personnel: <u>Allison Beckert</u> | Finish Date: _____ | | Time: <u>1407</u> |

| WELL INFORMATION | EVENT TYPE |
|----------------------------|--|
| Well ID: <u>HEN-47</u> | <input type="checkbox"/> Well Development |
| Casing ID: <u>2</u> inches | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling |
| | <input type="checkbox"/> Well Volume Approach Sampling |
| | <input type="checkbox"/> Other (Specify): _____ |

| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|-----------------|------------|---------|----------------------|-------------------------|-----------------|----------|----------------|
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| | 1507 | | | | 22.9 | 7.96 | 0.404 | 6.05 | 3.85 | 113.7 | clear |
| | 1506 | | | | 21.6 | 7.03 | 0.640 | 2.36 | 3.18 | 148.2 | ↓ |
| | 1511 | 1.0 | | | 21.6 | 7.03 | 0.640 | 2.05 | 3.12 | 152.0 | |
| | 1514 | | | | 21.6 | 7.03 | 0.639 | 1.79 | 3.02 | 154.6 | |
| | 1521 | | | | 21.5 | 7.03 | 0.641 | 1.68 | 3.01 | 156.2 | |
| | 1526 | 2.5 | | | 21.5 | 7.04 | 0.639 | 1.52 | 3.20 | 155.3 | |
| | | | | | | | | | | | |

NOTES (continued)

Samples taken @ 1530

Ferrrous iron @ 1600 : Under range

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

Monitoring Well Evaluation Checklist

| | | | | |
|---|--|-----------------|-----------|-----------|
| Site Hennepin #1 | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date 8/23/23 @ 1105 | | | X | |
| Well Number HEN-12 | | | | |
| Stick-up Monitoring Wells | | Comments | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |
| Flushmount Monitoring Wells | | Yes | No | NA |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | ↓ | |
| 12. Is there a lock present? | | | ↓ | |
| All Monitoring Wells | | Yes | No | NA |
| Downhole Condition | | _____ | | |
| 12. Water level measuring point clearly marked? | | X | X | |
| 13. No obstructions in well? | | ↓ | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | _____ ft | | | |
| 16. Installed as total depth. | _____ ft | | | |
| 17. Measured total depth of well. | _____ ft | | | |
| General Condition | | Yes | No | NA |
| 18. Concrete pad installed? | | | X | |
| 19. Concrete pad | _____ | | | |
| Slope away from casing? | | | ↓ | |
| Not deteriorated? | | | ↓ | |
| Not heaved or below surrounding grade? | | | ↓ | |
| 20. No surface seal settling? | | | ↓ | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| DTW: on app | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | |

| PROJECT INFORMATION | | | |
|--|----------------------------|-----------------------|--------------------|
| Site: <u>Hennepin, IL</u> | Client: <u>Ramboll</u> | Project Number: _____ | Task #: _____ |
| Field Personnel: <u>Allison Bellotti</u> | Start Date: <u>8/23/23</u> | Time: <u>09:30</u> | Finish Date: _____ |
| | | Time: <u>10:40</u> | |

| WELL INFORMATION | EVENT TYPE |
|----------------------------|--|
| Well ID: <u>HEP-12</u> | <input type="checkbox"/> Well Development |
| Casing ID: <u>2</u> inches | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling |
| | <input type="checkbox"/> Well Volume Approach Sampling |
| | <input type="checkbox"/> Other (Specify): _____ |

| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|-----------------|------------|---------|----------------------|-------------------------|-----------------|----------|----------------|
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| | | 1038 | | | 21.3 | 7.81 | 0.551 | 9.73 | 3.92 | 149.6 | clear |
| | | 1043 | | | 19.7 | 7.39 | 0.559 | 2.45 | 3.25 | 159.4 | |
| | | 1048 | 1.5 | | 19.6 | 7.35 | 0.559 | 2.01 | 3.10 | 157.1 | |
| | | 1053 | | | 19.6 | 7.33 | 0.559 | 1.94 | 3.10 | 155.7 | |
| | | 1058 | 2.5 | | 19.5 | 7.31 | 0.559 | 1.91 | 3.11 | 155.1 | |
| | | 1103 | | | 19.5 | 7.30 | 0.559 | 1.89 | 3.05 | 154.8 | |
| | | 1108 | 4.0 | | 19.5 | 7.30 | 0.558 | 1.88 | 3.0 | 154.1 | |
| | | | | | | | | | | | |
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| NOTES (continued) | ABBREVIATIONS | | | | | | | | | | |
|---|---|-----------------------------|-------------------------------------|------------------------------------|---------------------------------------|---------------------|---------------------|-------------------|--------------------|--|----------------------|
| <p style="font-size: 1.2em;">Samples taken @ 1010</p> <p style="font-size: 1.2em;">FERROUS IRON @ 1019: under range</p> | <table style="width:100%; font-size: 0.8em;"> <tr> <td>Cond. - Actual Conductivity</td> <td>ORP - Oxidation-Reduction Potential</td> </tr> <tr> <td>FT BTOC - Feet Below Top of Casing</td> <td>SEC - Specific Electrical Conductance</td> </tr> <tr> <td>na - Not Applicable</td> <td>SU - Standard Units</td> </tr> <tr> <td>nm - Not Measured</td> <td>Temp - Temperature</td> </tr> <tr> <td></td> <td>°C - Degrees Celsius</td> </tr> </table> | Cond. - Actual Conductivity | ORP - Oxidation-Reduction Potential | FT BTOC - Feet Below Top of Casing | SEC - Specific Electrical Conductance | na - Not Applicable | SU - Standard Units | nm - Not Measured | Temp - Temperature | | °C - Degrees Celsius |
| Cond. - Actual Conductivity | ORP - Oxidation-Reduction Potential | | | | | | | | | | |
| FT BTOC - Feet Below Top of Casing | SEC - Specific Electrical Conductance | | | | | | | | | | |
| na - Not Applicable | SU - Standard Units | | | | | | | | | | |
| nm - Not Measured | Temp - Temperature | | | | | | | | | | |
| | °C - Degrees Celsius | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| Site <u>Hennepin 12</u> Inspection Date <u>8/23/23 @ 8:25</u> Well Number <u>HEN-46</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA | | | | | | | | | | | | | | | |
|---|---|-----------------|----|----|---|---|---|--|---|---|---|---|--|---|--|--|--|--|--|
| | | | X | | | | | | | | | | | | | | | | |
| Stick-up Monitoring Wells | | Comments | | | | | | | | | | | | | | | | | |
| 1. Outer protective Casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table> | Yes | No | NA | | X | | | ↓ | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | |
| 2. Inner casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table> | Yes | No | NA | | X | | | ↓ | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | |
| 3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition? | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td style="text-align: center;">↓</td><td></td><td></td></tr> </table> | Yes | No | NA | | X | | | | X | ↓ | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | |
| ↓ | | | | | | | | | | | | | | | | | | | |
| Flushmount Monitoring Wells | | | | | | | | | | | | | | | | | | | |
| 8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present? | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td></td><td></td><td style="text-align: center;">↓</td></tr> </table> | Yes | No | NA | | | X | | | ↓ | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | |
| | | ↓ | | | | | | | | | | | | | | | | | |
| All Monitoring Wells | | | | | | | | | | | | | | | | | | | |
| Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well. | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td style="text-align: center;">X</td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table> | Yes | No | NA | | X | X | | ↓ | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | |
| | X | X | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | |
| General Condition 18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled? | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td style="text-align: center;">X</td><td></td><td></td></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> <tr><td style="text-align: center;">X</td><td></td><td></td></tr> </table> | Yes | No | NA | X | | | | X | | | ↓ | | X | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | |
| Comments: | | | | | | | | | | | | | | | | | | | |
| DTW: on app | | | | | | | | | | | | | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | | | | | | | | | | | |

PROJECT INFORMATION

Site: Hennepin, IL Client: 3 Rambo
 Project Number: _____ Task #: _____ Start Date: 9/20/23 Time: 0910
 Field Personnel: Allison Becker Finish Date: _____ Time: 0930

| WELL INFORMATION | | EVENT TYPE | |
|----------------------------|--|--|--|
| Well ID: <u>HEN-46</u> | <input type="checkbox"/> Well Development | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | |
| Casing ID: <u>2</u> inches | <input type="checkbox"/> Well Volume Approach Sampling | <input type="checkbox"/> Other (Specify): | |

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|----------------|-----------------|--------------------------|-----------------------|-----------------|-------------|-------------|----------------------|-------------------------|-----------------|--------------|----------------|
| | <u>0819</u> | | | | <u>20.9</u> | <u>7.40</u> | <u>0.559</u> | <u>3.37</u> | <u>6.58</u> | <u>127.4</u> | <u>clear</u> |
| | <u>0824</u> | | | | <u>20.8</u> | <u>7.35</u> | <u>0.500</u> | <u>2.44</u> | <u>4.01</u> | <u>142.5</u> | |
| | <u>0829</u> | | | | <u>20.8</u> | <u>7.35</u> | <u>0.500</u> | <u>2.34</u> | <u>5.82</u> | <u>144.1</u> | |
| | <u>0834</u> | <u>1.5</u> | | | <u>20.8</u> | <u>7.34</u> | <u>0.500</u> | <u>2.19</u> | <u>9.84</u> | <u>144.5</u> | |
| | <u>0839</u> | | | | <u>20.8</u> | <u>7.34</u> | <u>0.558</u> | <u>2.06</u> | <u>14.58</u> | <u>144.3</u> | |
| | <u>0844</u> | | | | <u>20.8</u> | <u>7.33</u> | <u>0.558</u> | <u>1.99</u> | <u>17.95</u> | <u>143.7</u> | |
| | <u>0849</u> | <u>3.0</u> | | | <u>20.8</u> | <u>7.33</u> | <u>0.559</u> | <u>1.91</u> | <u>18.25</u> | <u>143.2</u> | |
| | | | | | <u>20.9</u> | <u>7.33</u> | <u>0.559</u> | <u>1.85</u> | <u>18.98</u> | <u>142.2</u> | ↓ |
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NOTES (continued)

Samples taken @ 0855

Ferrous iron: Under range @ 0910

ABBREVIATIONS

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

Monitoring Well Evaluation Checklist

| | | | | |
|--|--|------------|-----------|-----------|
| Site <u>Hennepin, IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/23/23 @ 1334</u> | | | X | |
| Well Number <u>HEN-54</u> | | | | |

Stick-up Monitoring Wells

1. Outer protective Casing
 - Not corroded
 - Not dented
 - Not cracked
 - Not loose
2. Inner casing
 - Not corroded
 - Not dented
 - Not cracked
 - Not loose
3. Are there weep holes in outer casing?
4. Weep holes able to drain?
5. Is there a lockable cap present?
6. Is there a lock present?
7. Bumper posts in good condition?

| Yes | No | NA |
|-----|----|----|
| | X | |
| | ↓ | |
| | ↓ | |
| | ↓ | |
| | ↓ | |
| | ↓ | |
| | X | |
| | | X |
| X | | |
| ↓ | | |

Comments

Flushmount Monitoring Wells

8. Can the lid be secured tightly?
9. Does the lid have a gasket that seals?
10. No water in the flushmount?
11. Is the well cap lockable?
12. Is there a lock present?

| Yes | No | NA |
|-----|----|----|
| | | X |
| | | ↓ |
| | | ↓ |
| | | ↓ |

All Monitoring Wells

- Downhole Condition**
12. Water level measuring point clearly marked?
 13. No obstructions in well?
 14. No plant roots or vegetation in well?
 15. No sediment in bottom of well?
If present, how much sediment?
 16. Installed as total depth.
 17. Measured total depth of well.

| Yes | No | NA |
|-----|----|----|
| | | X |
| | X | |
| | ↓ | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

General Condition

18. Concrete pad installed?
19. Concrete pad
 - Slope away from casing?
 - Not deteriorated?
 - Not heaved or below surrounding grade?
20. No surface seal settling?
21. Well clearly visible and labeled?

| Yes | No | NA |
|-----|----|----|
| X | | |
| | X | |
| | ↓ | |
| | ↓ | |
| X | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

Monitoring Well Evaluation Checklist

| Site <u>Hennepin Jb</u> Inspection Date <u>9/23/23 @ 11:00</u> Well Number <u>HEN-13</u> | Major wells repairs* required to maintain well integrity? <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | | | | | | | | | | | | | | |
|---|---|-----|----|----|---|---|---|--|---|---|---|---|---|------------------------------|--|--|------|--|--|------|--|--|--|
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | |
| Stick-up Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Outer protective Casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">↓</td> <td></td> </tr> </table> | Yes | No | NA | X | | | | X | | | ↓ | | Comments Oxidized & rusty | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | | | | |
| 2. Inner casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">↓</td> <td></td> </tr> </table> | Yes | No | NA | | X | | | ↓ | | | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | | | | |
| 3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition? | <table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">↓</td> <td></td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | X | X | | | ↓ | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | | | | | | | | | | | | | | | | | | | | | | | |
| Flushmount Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | |
| 8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present? | <table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">↓</td> </tr> </table> | Yes | No | NA | | | X | | | ↓ | | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | |
| | | ↓ | | | | | | | | | | | | | | | | | | | | | |
| All Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | |
| Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well. | <table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">↓</td> <td></td> </tr> <tr> <td>— ft</td> <td></td> <td></td> </tr> <tr> <td>— ft</td> <td></td> <td></td> </tr> <tr> <td>— ft</td> <td></td> <td></td> </tr> </table> | Yes | No | NA | | | X | | X | | | ↓ | | — ft | | | — ft | | | — ft | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | | | | |
| — ft | | | | | | | | | | | | | | | | | | | | | | | |
| — ft | | | | | | | | | | | | | | | | | | | | | | | |
| — ft | | | | | | | | | | | | | | | | | | | | | | | |
| General Condition 18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled? | <table border="1" style="width: 100%;"> <tr> <th>Yes</th> <th>No</th> <th>NA</th> </tr> <tr> <td></td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">X</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">↓</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | X | | | ↓ | X | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | |
| | | ↓ | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: <div style="text-align: center; font-size: 1.2em; font-family: cursive;">DTW - on app</div> | | | | | | | | | | | | | | | | | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|--|---|-----|-------------------------------------|----|
| Site Inspection Date <u>8/23/23</u> Well Number <u>18D</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| | | | <input checked="" type="checkbox"/> | |
| Stick-up Monitoring Wells | | | | |
| Comments | | | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| All Monitoring Wells | | | | |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | Yes | No | NA | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| General Condition | | | | |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | X | | |
| Slope away from casing? | | ↓ | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | ↓ | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| | | | | |
| | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--|-------------|--|----------------------|---|-------------------|--------------|----------------|
| Site: _____ | | | Client: _____ | | | | | | | | |
| Project Number: <u>2023-074</u> | | | Task #: _____ | | | Start Date: <u>8/23/23</u> | | | Time: <u>1318</u> | | |
| Field Personnel: <u>TRENBERG</u> | | | Finish Date: _____ | | | Time: <u>1435</u> | | | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>14D</u> | | | | <input type="checkbox"/> Well Development | | | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: _____ inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| <u>PRE</u> | | | | | | | | | | | |
| <u>PURGE</u> | <u>1330</u> | <u>0.1</u> | | | | | | | | | <u>CLEAR</u> |
| | <u>1333</u> | | | | <u>21.3</u> | <u>7.22</u> | <u>0.692</u> | <u>2.84</u> | <u>15.81</u> | <u>169.2</u> | |
| | <u>1338</u> | | | | <u>21.3</u> | <u>7.17</u> | <u>0.688</u> | <u>0.78</u> | <u>6.81</u> | <u>79.1</u> | |
| | <u>1343</u> | <u>1.5</u> | | | <u>21.2</u> | <u>7.17</u> | <u>0.684</u> | <u>0.33</u> | <u>10.25</u> | <u>72.2</u> | |
| | <u>1348</u> | | | | <u>21.2</u> | <u>7.17</u> | <u>0.684</u> | <u>0.18</u> | <u>11.18</u> | <u>71.7</u> | |
| | <u>1353</u> | | | | <u>21.1</u> | <u>7.18</u> | <u>0.684</u> | <u>0.17</u> | <u>10.44</u> | <u>68.3</u> | |
| | <u>1358</u> | <u>2</u> | | | <u>21.2</u> | <u>7.18</u> | <u>0.685</u> | <u>0.17</u> | <u>10.26</u> | <u>68.2</u> | |
| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| <u>SAMPLE @ 1405</u> <u>FI - UNDER</u> | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | | | |
| | | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| | | | | |
|--|--|------------|-----------|-----------|
| Site <u>Hennepin, IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/21/23 @ 1115</u> | | | X | |
| Well Number <u>HEN-05DR</u> | | | | |

Stick-up Monitoring Wells

Comments

| | Yes | No | NA | |
|---|-----|----|----|--|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |

Flushmount Monitoring Wells

| | Yes | No | NA | |
|--|-----|----|----|--|
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | ↓ | |
| 12. Is there a lock present? | | | ↓ | |

All Monitoring Wells

| | Yes | No | NA | |
|--|-----|----|----|------------------|
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | | | | |
| — ft | | | | |
| — ft | | | | |
| 16. Installed as total depth. | | | | |
| 17. Measured total depth of well. | | | | <u>108.10 ft</u> |

| | Yes | No | NA | |
|--|-----|----|----|--|
| General Condition | | | | |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | ↓ | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments:

DTW: 38.79 pump installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|--------------------|--|----------------------------|--|-------------------------|-----------------|---|----------------|---|--|
| Site: <u>HENNEPIN</u> | | | | | | Client: _____ | | | | | | | |
| Project Number: <u>2023 0711</u> | | | | Task #: _____ | | Start Date: <u>8/23/23</u> | | | | Time: <u>1155</u> | | | |
| Field Personnel: <u>C. CREMBLY</u> | | | | Finish Date: _____ | | Time: <u>1305</u> | | | | Time: _____ | | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | | | |
| Well ID: <u>OSD1C</u> | | | | | <input type="checkbox"/> Well Development | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | |
| Casing ID: _____ inches | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | |
| <u>PRE</u> | <u>1155</u> | <u>38.73</u> | <u>38.73</u> | <u>0</u> | | | | | | | | | |
| <u>PURGE</u> | <u>1205</u> | <u>2.15</u> | <u>38.73</u> | <u>0</u> | | | | | | | <u>CLEAR</u> | | |
| | <u>1210</u> | <u>0.75</u> | <u>38.73</u> | <u>0</u> | <u>21.2</u> | <u>7.41</u> | <u>0.632</u> | <u>0.77</u> | <u>2.81</u> | <u>169.5</u> | | | |
| | <u>1215</u> | | <u>38.73</u> | <u>0</u> | <u>20.6</u> | <u>7.41</u> | <u>0.631</u> | <u>0.28</u> | <u>2.54</u> | <u>167.7</u> | | | |
| | <u>1220</u> | | <u>38.73</u> | <u>0</u> | <u>20.6</u> | <u>7.42</u> | <u>0.631</u> | <u>0.20</u> | <u>2.67</u> | <u>165.1</u> | | | |
| | <u>1225</u> | <u>1.25</u> | <u>38.73</u> | | <u>20.8</u> | <u>7.41</u> | <u>0.631</u> | <u>0.18</u> | <u>2.23</u> | <u>163.5</u> | | | |
| | <u>1230</u> | | <u>38.73</u> | | <u>20.8</u> | <u>7.41</u> | <u>0.631</u> | <u>0.16</u> | <u>2.35</u> | <u>161.7</u> | | | |
| | <u>1235</u> | | <u>38.73</u> | | <u>20.8</u> | <u>7.41</u> | <u>0.631</u> | <u>0.15</u> | <u>2.51</u> | <u>160.2</u> | | | |
| | <u>1240</u> | | <u>38.73</u> | | <u>20.4</u> | <u>7.41</u> | <u>0.631</u> | <u>0.15</u> | <u>2.12</u> | <u>158.8</u> | | | |
| NOTES (continued) | | | | | | | | | | ABBREVIATIONS | | | |
| <p><u>SAMPLE @ - 1145</u> <u>FI - UNDERWAY</u></p> | | | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius | |
| | | | | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| | | | | |
|--|--|------------|-----------|-----------|
| Site <u>Hennepin, I2</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/21/23 @ 1105</u> | | | X | |
| Well Number <u>HEN-05R</u> | | | | |

| | | | | <u>Comments</u> |
|---|-------|----|----|-----------------|
| <u>Stick-up Monitoring Wells</u> | | | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | ↓ | |
| <u>All Monitoring Wells</u> | | | | |
| <u>Downhole Condition</u> | | | | |
| 12. Water level measuring point clearly marked? | | | | ~~~~~~ |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | — | ft | | |
| 16. Installed as total depth. | — | ft | | |
| 17. Measured total depth of well. | 40.05 | ft | | |
| <u>General Condition</u> | | | | |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | ~~~~~~ |
| Slope away from casing? | | X | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| <u>DTW: 38.00 pump installed</u> | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|-----------------|--|----------------------------|---|------------------------------------|-------------------|------------------|----------------|---------------------------------------|--|--|--|
| Site: <u>HENNEP2U</u> | | | Client: _____ | | | | | | | | | | | | |
| Project Number: <u>2023-07U</u> | | | Task #: _____ | | | Start Date: <u>8/23/23</u> | | | Time: <u>1036</u> | | | | | | |
| Field Personnel: <u>C. TREMBLY</u> | | | Finish Date: _____ | | | Time: <u>150</u> | | | _____ | | | | | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | | | | | |
| Well ID: <u>OSR</u> | | | | | <input type="checkbox"/> Well Development | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | |
| Casing ID: _____ inches | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| PRE | 1036 | | 38.69 | | | | | | | | | | | | |
| PURGE | 1042 | 0.1 | 38.69 | Q | | | 0.646 | 1.60 | 27.51 | 118.9 | ↓ CLEAR | | | | |
| SAMPLE | 1048 | 0.5 | 38.69 | Q | 20.6 | 7.61 | 0.646 | 1.60 | 27.51 | 118.9 | | | | | |
| | 1053 | | 38.69 | Q | 20.6 | 7.61 | 0.644 | 0.36 | 18.70 | 136.8 | | | | | |
| | 1058 | | 38.69 | Q | 20.5 | 7.61 | 0.643 | 0.23 | 12.41 | 141.0 | | | | | |
| | 1103 | 1.25 | 38.69 | Q | 20.8 | 7.61 | 0.643 | 0.19 | 8.77 | 142.8 | | | | | |
| | 1108 | | 38.69 | Q | 20.6 | 7.61 | 0.644 | 0.17 | 7.00 | 143.7 | | | | | |
| | 1113 | | 38.69 | Q | 20.8 | 7.61 | 0.643 | 0.15 | 5.15 | 144.0 | | | | | |
| | 1118 | 2.5 | 38.69 | Q | 20.6 | 7.61 | 0.645 | 0.14 | 4.41 | 144.2 | | | | | |
| | 1123 | | | | 20.3 | 7.62 | 0.644 | 0.14 | 3.55 | 144.2 | | | | | |
| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| SAMPLE@ - 1130 FI - 0.806 ppm | | | | | | | | Cond. - Actual Conductivity | | | | ORP - Oxidation-Reduction Potential | | | |
| | | | | | | | | FT BTOC - Feet Below Top of Casing | | | | SEC - Specific Electrical Conductance | | | |
| | | | | | | | | na - Not Applicable | | | | SU - Standard Units | | | |
| | | | | | | | | nm - Not Measured | | | | Temp - Temperature | | | |
| | | | | | | | | | | | | °C - Degrees Celsius | | | |

Monitoring Well Evaluation Checklist

Site Hennepin II Major wells repairs* required to maintain well integrity? Yes No NA
 Inspection Date 8/24/23 @ 1055
 Well Number HEN-48

Stick-up Monitoring Wells

Comments

| | Yes | No | NA | |
|----------------------------|-----|----|----|---------------|
| 1. Outer protective Casing | | | | |
| Not corroded | | X | | |
| Not dented | X | X | | SMALL DENT |
| Not cracked | | X | | |
| Not loose | X | | | WELL IS LOOSE |

| | Yes | No | NA | |
|-----------------|-----|----|----|--------------------|
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | X | | | INNER CASE CRACKED |
| Not loose | X | | | |

| | Yes | No | NA | |
|--|-----|----|----|--|
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |

Flushmount Monitoring Wells

| | Yes | No | NA | |
|---|-----|----|----|--|
| 8. Can the lid be secured tightly? | X | | | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | X | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |

All Monitoring Wells

Downhole Condition

| | Yes | No | NA | |
|---|-----|----|----|--------------|
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | X | | | CRACKED well |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | | X | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |

General Condition

| | Yes | No | NA | |
|--|-----|----|----|--|
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | X | | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | X | | | |
| 20. No surface seal settling? | X | | | |
| 21. Well clearly visible and labeled? | X | | | |

Comments: COULD NOT TAKE WATER LEVEL READING DUE TO BLOCKAGE

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|--------------------|-----------------|--|----------------------|-------------------------|-----------------|-------------------|----------------|
| Site: <u>HENNEP2U</u> | | | | | | Client: _____ | | | | | |
| Project Number: <u>2023 024</u> | | | | Task #: _____ | | Start Date: <u>8/23/23</u> | | | | Time: <u>0931</u> | |
| Field Personnel: <u>[Signature]</u> | | | | Finish Date: _____ | | Time: <u>1030</u> | | | | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | |
| Well ID: <u>48</u> | | | | | | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | |
| Casing ID: _____ inches | | | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| 0930 | | | | | | | | | | | |
| PURGE | 0937 | 0.11 | | | 20.9 | 7.63 | 0.601 | 1.93 | 5.23 | 163.4 | CLEAR |
| SAMPLE | 0943 | 0.75 | | | 20.9 | 7.63 | 0.601 | 1.93 | 5.23 | 163.4 | ↓ |
| | 0948 | | | | 20.8 | 7.62 | 0.590 | 0.50 | 4.37 | 160.2 | |
| | 0953 | | | | 20.7 | 7.62 | 0.589 | 0.24 | 3.28 | 157.8 | |
| | 0958 | | | | 20.5 | 7.62 | 0.589 | 0.18 | 2.71 | 154.3 | |
| | 1003 | 2.25 | | | 20.7 | 7.62 | 0.589 | 0.15 | 2.22 | 152.0 | |
| | 1008 | | | | 20.7 | 7.62 | 0.589 | 0.13 | 2.30 | 150.3 | |
| | 1013 | | | | 20.7 | 7.62 | 0.589 | 0.12 | 2.09 | 148.7 | |
| | 1018 | 3 | | | 20.8 | 7.62 | 0.589 | 0.11 | 2.01 | 147.4 | |
| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| * WELL HAS OBSTRUCTION INSIDE CASING. COULD NOT MEASURE WATER SAMPLE @ - 1020 FI - UNDERWAY | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | | |
| | | | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | | | |

| | | | | |
|---------------------------------------|--|------------|-----------|-----------|
| Site Hennepin, IL | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date 8/21/23 @ 1050 | | | X | |
| Well Number HEN-405 | | | | |

| Stick-up Monitoring Wells | | | | |
|--|--------|----|----|-----------------|
| 1. Outer protective Casing | Yes | No | NA | Comments |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |
| | | | | |
| | | | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | ↓ | |
| 12. Is there a lock present? | | | ↓ | |
| All Monitoring Wells | | | | |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | Yes | No | NA | |
| 13. No obstructions in well? | X | X | X | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | | | | |
| 16. Installed as total depth. | | | | 37.92ft |
| 17. Measured total depth of well. | | | | 37.92ft |
| General Condition | | | | |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | 37.92' | | | |
| DTW: 30.00 37.92 ft pump installed | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|-----------------|--|--|--|-------------------------|-------------------|----------|----------------|
| Site: <u>HENNEP2</u> | | | Client: _____ | | | | | | | | |
| Project Number: <u>2023 0711</u> | | | Task #: _____ | | | Start Date: <u>8/23/23</u> | | | Time: <u>0820</u> | | |
| Field Personnel: <u>C TRUMBULL</u> | | | Finish Date: _____ | | | Time: <u>0919</u> | | | Time: _____ | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | |
| Well ID: <u>405</u> | | | | | <input type="checkbox"/> Well Development | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | |
| Casing ID: _____ inches | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| PRE | 0832 | | 37.92 | 0 | | | | | | | |
| Purge | 0836 | 0.1 | 37.92 | 0 | | | | | | | CLEAR |
| SAMPLE | 0841 | | 37.92 | 0 | 19.0 | 7.89 | 0.581 | 2.20 | 4.25 | 149.6 | ↓ |
| | 0846 | 1.5 | 37.92 | 0 | 18.8 | 7.89 | 0.579 | 0.41 | 3.29 | 143.4 | |
| | 0851 | | 37.92 | 0 | 19.7 | 7.98 | 0.579 | 0.44 | 2.58 | 139.1 | |
| | 0856 | | 37.92 | 0 | 18.7 | 7.88 | 0.579 | 0.37 | 2.16 | 135.7 | |
| | 0901 | 2.75 | 37.92 | 0 | 18.8 | 7.88 | 0.579 | 0.37 | 2.13 | 133.5 | |
| NOTES (continued) | | | | | | ABBREVIATIONS | | | | | |
| <p>SAMPLE @ 0905 FT - HAND PUMP</p> | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | | | |
| | | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| | | | | |
|---|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Site <u>HENNEPIN</u> Inspection Date <u>9/24/23</u> Well Number <u>PCN-35</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Stick-up Monitoring Wells | | | | |
| Comments | | | | |
| 1. Outer protective Casing | | | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | | Yes | No | NA |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Inner casing | | | | |
| Not corroded | | | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| | | Yes | No | NA |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Are there weep holes in outer casing? | | | | |
| 4. Weep holes able to drain? | | | | |
| | | Yes | No | NA |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Is there a lockable cap present? | | | | |
| 6. Is there a lock present? | | | | |
| 7. Bumper posts in good condition? | | | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? | | | | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| | | Yes | No | NA |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| All Monitoring Wells | | | | |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | | | | |
| 13. No obstructions in well? | | | | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | | | | |
| 16. Installed as total depth. | | | | |
| 17. Measured total depth of well. | | | | |
| | | Yes | No | NA |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| ft | | | | |
| ft | | | | |
| ft | | | | |
| General Condition | | | | |
| 18. Concrete pad installed? | | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | | | |
| Not deteriorated? | | | | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | |
| 21. Well clearly visible and labeled? | | | | |
| | | Yes | No | NA |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Comments: | | | | |
| | | | | |
| | | | | |
| | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

Monitoring Well Evaluation Checklist

| | | | | |
|---------------------------------------|--|------------|-----------|-----------|
| Site <u>HENNEPIN, IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/24/23</u> | | | x | |
| Well Number <u>HEN-52</u> | | | | |

| <u>Stick-up Monitoring Wells</u> | | | | |
|--|-----|----|----|--|
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | x | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | x | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | x | | |
| 5. Is there a lockable cap present? | | | x | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |
| | | | | |
| | | | | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | x | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | ↓ | |
| 12. Is there a lock present? | | | ↓ | |
| <u>All Monitoring Wells</u> | | | | |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | | | x | |
| 13. No obstructions in well? | | x | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | — | ft | | |
| 16. Installed as total depth. | — | ft | | |
| 17. Measured total depth of well. | — | ft | | |
| General Condition | | | | |
| 18. Concrete pad installed? | x | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | x | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | ↓ | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | x | | | |
| Comments: | | | | |
| <u>DTW: on app</u> | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/24/23 Time: 0905
 Field Personnel: Allison Beckert Finish Date: _____ Time: 1000

WELL INFORMATION

Well ID: HEN-S2
 Casing ID: 2 inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|----------------|-----------------|--------------------------|-----------------------|-----------------|------------|---------|----------------------|-------------------------|-----------------|----------|----------------|
| | 0909 | | | | 21.5 | 7.10 | 0.1135 | 7.57 | 5.56 | 147.9 | clear |
| | 0914 | | | | 23.6 | 7.01 | 0.1005 | 2.0 2.0 | 5.95 | 152.3 | ↓ |
| | 0919 | 1.0 | | | 23.8 | 7.06 | 0.1009 | 1.37 | 4.68 | 149.7 | |
| | 0924 | | | | 23.9 | 7.05 | 0.1012 | 1.21 | 4.27 | 147.2 | |
| | 0929 | 2.0 | | | 23.9 | 7.04 | 0.1013 | 1.03 | 4.25 | 146.5 | |
| 25 | 0934 | | | | 24.0 | 7.04 | 0.1014 | 1.96 | 4.08 | 145.8 | |
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NOTES (continued)

Samples taken @ 0940
 Ferrous iron @ 1011: Under range

ABBREVIATIONS

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

| | | | | |
|---|---|-----------------|----|----|
| Site HENNEPIN, IL | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date 8/24/23 @ 1400 | | | | |
| Well Number HEN-80 | | | | |
| Stick-up Monitoring Wells | | Comments | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | X | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | X | |
| 11. Is the well cap lockable? | | | X | |
| 12. Is there a lock present? | | | X | |
| All Monitoring Wells | | | | |
| Downhole Condition | | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | | X |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | — | ft | | |
| 16. Installed as total depth. | — | ft | | |
| 17. Measured total depth of well. | — | ft | | |
| General Condition | | Yes | No | NA |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| DTW on app | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | |

| PROJECT INFORMATION | | | |
|---|------------------------|----------------------------|-----------------------|
| Site: <u>Hennepin, IL</u> | Client: <u>Ramboll</u> | | |
| Project Number: _____ | Task #: _____ | Start Date: <u>8/24/23</u> | Time: 1140 |
| Field Personnel: <u>Allison Beckett</u> | | Finish Date: _____ | Time: <u>1311</u> |

| WELL INFORMATION | EVENT TYPE |
|----------------------------|--|
| Well ID: <u>HEN-88D</u> | <input type="checkbox"/> Well Development |
| Casing ID: <u>2</u> inches | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling |
| | <input type="checkbox"/> Well Volume Approach Sampling |
| | <input type="checkbox"/> Other (Specify): _____ |

| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|-----------------|-----------------------------|--------------|----------------------|-----------------------------|-----------------|--------------|----------------|
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| | <u>1154</u> | | | | 18.7 <u>17.7</u> | <u>7.03</u> | <u>1.330</u> | <u>0.45</u> | <u>4.29</u> | <u>182.5</u> | <u>clear</u> |
| | <u>1159</u> | | | | <u>17.7</u> | <u>6.104</u> | <u>1.420</u> | 0.88 <u>0.88</u> | <u>4.88</u> | <u>193.7</u> | ↓ |
| | <u>1204</u> | | | | <u>17.7</u> | <u>6.58</u> | <u>1.433</u> | <u>0.98</u> | <u>5.34</u> | <u>194.0</u> | |
| | <u>1209</u> | <u>1.0</u> | | | <u>17.4</u> | <u>6.58</u> | <u>1.430</u> | <u>0.70</u> | <u>4.10</u> | <u>193.0</u> | |
| | <u>1214</u> | | | | <u>17.5</u> | <u>6.58</u> | <u>1.432</u> | <u>0.75</u> | <u>4.57</u> | <u>192.4</u> | |
| | <u>1219</u> | <u>2.0</u> | | | <u>17.3</u> | <u>6.59</u> | <u>1.435</u> | <u>0.83</u> | <u>4.32</u> | <u>192.0</u> | |
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| NOTES (continued) | ABBREVIATIONS |
|--|--|
| <p><u>Samples taken @ 1225</u></p> <p><u>Ferrous iron sample @ 1232: Under range</u></p> | <p>Cond. - Actual Conductivity ORP - Oxidation-Reduction Potential</p> <p>FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance</p> <p>na - Not Applicable SU - Standard Units</p> <p>nm - Not Measured Temp - Temperature</p> <p> °C - Degrees Celsius</p> |

Monitoring Well Evaluation Checklist

| | | | | |
|-------------------------------------|--|------------|-----------|-----------|
| Site Hennepin, IL | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date 8/24/23 1355 | | | X | |
| Well Number HEN-07 | | | | |

| <u>Stick-up Monitoring Wells</u> | | | | <u>Comments</u> |
|--|------------|----|----|-----------------|
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | ↓ | | | |
| | Yes | No | NA | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | ↓ | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | ↓ | |
| 12. Is there a lock present? | | | ↓ | |
| | Yes | No | NA | |
| All Monitoring Wells | | | | |
| Downhole Condition | Yes | No | NA | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | ↓ | | |
| If present, how much sediment? | | | | |
| 16. Installed as total depth. | | | | |
| 17. Measured total depth of well. | | | | |
| | Yes | No | NA | |
| General Condition | | | | |
| 18. Concrete pad installed? | | X | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | | X | |
| Not deteriorated? | | | ↓ | |
| Not heaved or below surrounding grade? | | | ↓ | |
| 20. No surface seal settling? | | | ↓ | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | DTW on app | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin, J2 Client: _____
 Project Number: _____ Task #: _____ Start Date: 8/24/23 Time: 1320
 Field Personnel: Allison Beckert Finish Date: _____ Time: 1430

| WELL INFORMATION | EVENT TYPE |
|--|--|
| Well ID: <u>HEN-07</u> Casing ID: <u>2</u> inches | <input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____ |

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|----------------|-----------------|--------------------------|-----------------------|-----------------|------------|---------|----------------------|-------------------------|-----------------|----------|----------------|
| | 1332 | | | | 14.4 | 6.98 | 0.727 | 5.73 | 5.16 | 166.3 | clear |
| | 1337 | | | | 14.0 | 6.97 | 0.698 | 4.25 | 4.45 | 174.5 | ↓ |
| | 1342 | 2.0 | | | 13.9 | 6.94 | 0.701 | 4.20 4.20 | 4.09 | 170.4 | ↓ |
| | 1347 | | | | 13.9 | 6.94 | 0.700 | 4.16 | 3.85 | 178.7 | ↓ |
| | 1352 | 3.0 | | | 13.8 | 6.93 | 0.699 | 4.16 | 3.57 | 179.6 | ↓ |
| | 1357 | | | | 13.8 | 6.91 | 0.699 | 4.15 | 3.55 | 179.9 | ↓ |
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| NOTES (continued) | ABBREVIATIONS |
|--|---|
| <p>Samples taken @1400</p> <p>Ferrous iron sample @1400: under range</p> | <p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius</p> |

Monitoring Well Evaluation Checklist

| | | | | |
|---|--|-----------------|-----------|-----------|
| Site Hennepin, IL | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date 8/24/23 @ 1452 | | | X | |
| Well Number HEN-03 | | | | |
| Stick-up Monitoring Wells | | Comments | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | ↓ | |
| All Monitoring Wells | | | | |
| Downhole Condition | | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | | X |
| 13. No obstructions in well? | | | ↓ | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | — ft | | | |
| 17. Measured total depth of well. | — ft | | | |
| General Condition | | Yes | No | NA |
| 18. Concrete pad installed? | | | X | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | | | X |
| Not deteriorated? | | | | ↓ |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | | ↓ |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| DTU: on app | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|--|-------------|--|---|-------------------------|-------------------|--------------|----------------|
| Site: <u>Hennepin, IL</u> | | | | Client: <u>Ramboll</u> | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | | Start Date: <u>8/21/24</u> | | | Time: <u>1435</u> | | |
| Field Personnel: <u>Allison Bell</u> | | | | Finish Date: _____ | | | | Time: <u>1620</u> | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>08</u> | | | | <input type="checkbox"/> Well Development | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | |
| Casing ID: _____ inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| | <u>1443</u> | | | | <u>14.7</u> | <u>6.62</u> | <u>1.228</u> | <u>1.54</u> | <u>3.85</u> | <u>192.1</u> | <u>Clear</u> |
| | <u>1449</u> | | | | <u>14.6</u> | <u>6.58</u> | <u>1.239</u> | <u>1.30</u> | <u>3.61</u> | <u>194.1</u> | ↓ |
| | <u>1453</u> | <u>2.5</u> | | | <u>14.7</u> | <u>6.69</u> | <u>1.22</u> | <u>3.53</u> | <u>188.9</u> | | |
| | <u>1458</u> | | | | <u>14.6</u> | <u>6.69</u> | <u>1.243</u> | <u>1.19</u> | <u>3.50</u> | <u>188.1</u> | |
| | <u>1503</u> | | | | <u>14.6</u> | <u>6.72</u> | <u>1.244</u> | <u>1.17</u> | <u>3.49</u> | <u>188.6</u> | |
| | <u>1508</u> | | | | <u>14.7</u> | <u>6.72</u> | <u>1.241</u> | <u>1.16</u> | <u>3.49</u> | <u>188.6</u> | |
| NOTES (continued) | | | | | | | ABBREVIATIONS | | | | |
| <p><u>Samples taken @ 1510</u></p> <p><u>Ferrous iron sampled @ 1530: under range</u></p> <p><u>dupe @ 1510</u></p> | | | | | | | Cond - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celsius | | | | |

| | | | | |
|---|--|------------------------|-------------------------------------|-----------|
| Site | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/24/23</u> | | | <input checked="" type="checkbox"/> | |
| Well Number <u>27</u> | | | | |
| <u>Stick-up Monitoring Wells</u> | | <u>Comments</u> | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | / | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| <u>All Monitoring Wells</u> | | | | |
| <u>Downhole Condition</u> | | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | | ↓ | |
| 14. No plant roots or vegetation in well? | | | | |
| 15. No sediment in bottom of well? | | | ↓ | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| <u>General Condition</u> | | Yes | No | NA |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
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* Major well repair are those that require a subcontractor or separate mobilization to complete

Monitoring Well Evaluation Checklist

| | | | | | | | | | | | | | | | | | | | | |
|---|--|-----------------|----|----|---|---|---|--|---|---|---|--|--|--|--|--|---|--|--|--|
| Site <u>Hennepin, IL</u> Inspection Date <u>8/21/23 @ 1200</u> Well Number <u>HEN-02</u> | Major wells repairs* required to maintain well integrity? <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | |
| Stick-up Monitoring Wells | | Comments | | | | | | | | | | | | | | | | | | |
| 1. Outer protective Casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | |
| 2. Inner casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | |
| 3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition? | <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td>X</td> </tr> <tr> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> | Yes | No | NA | | X | | | | X | X | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | |
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| Flushmount Monitoring Wells | | | | | | | | | | | | | | | | | | | | |
| 8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present? | <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> | Yes | No | NA | | | X | | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | |
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| All Monitoring Wells | | | | | | | | | | | | | | | | | | | | |
| Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well. | <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td>X</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> <p>— ft — ft <u>47.10ft</u></p> | Yes | No | NA | | | X | | X | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | |
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| General Condition 18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled? | <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td>X</td> <td></td> <td></td> </tr> <tr> <td></td> <td>X</td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>X</td> <td></td> <td></td> </tr> </table> | Yes | No | NA | X | | | | X | X | | | | | | | X | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | |
| | X | X | | | | | | | | | | | | | | | | | | |
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| X | | | | | | | | | | | | | | | | | | | | |
| Comments: <div style="text-align: center; font-size: 1.2em;"> DTIN: 41.84ft pump installed </div> | | | | | | | | | | | | | | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | | | | | | | | | | | | |

PROJECT INFORMATION

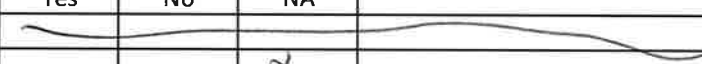
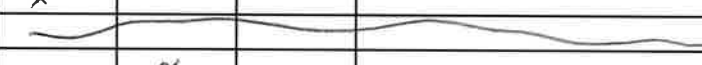
Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/24/2023 Time: 1025
 Field Personnel: Allison Beckett Finish Date: _____ Time: 1120

| WELL INFORMATION | EVENT TYPE |
|--|--|
| Well ID: <u>HEN-02</u> Casing ID: <u>2</u> inches | <input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____ |

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|----------------|-----------------|--------------------------|-----------------------|-----------------|-------------|-------------|----------------------|-------------------------|-----------------|---------------|----------------------|
| | <u>103L</u> | | <u>41.17</u> | | <u>15.4</u> | <u>7.12</u> | <u>0.1079</u> | <u>5.70</u> | <u>5.80</u> | <u>156.5</u> | CLEAR ↓ ↓ ↓ |
| | <u>1037</u> | | <u>41.57</u> | | <u>14.2</u> | <u>6.81</u> | <u>0.1087</u> | <u>0.63</u> | <u>5.08</u> | <u>172.7</u> | |
| | <u>104L</u> | <u>2.0</u> | <u>41.17</u> | | <u>14.0</u> | <u>6.78</u> | <u>0.1085</u> | <u>0.38</u> | <u>5.12</u> | <u>174.3</u> | |
| | <u>1047</u> | | <u>41.16</u> | | <u>14.1</u> | <u>6.81</u> | <u>0.1084</u> | <u>0.31</u> | <u>4.31</u> | <u>172.3</u> | |
| | <u>1052</u> | <u>3.0</u> | <u>41.15</u> | | <u>14.0</u> | <u>6.83</u> | <u>0.1084</u> | <u>0.27</u> | <u>3.99</u> | <u>170.8</u> | |
| | <u>1057</u> | | | | <u>14.0</u> | <u>6.83</u> | <u>0.1086</u> | <u>0.27</u> | <u>4.17</u> | <u>170.1</u> | |
| | <u>1102</u> | <u>4.0</u> | | | <u>14.0</u> | <u>6.83</u> | <u>0.1085</u> | <u>0.24</u> | <u>3.85</u> | <u>1109.1</u> | |
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| NOTES (continued) | ABBREVIATIONS |
|---|---|
| <p><u>Samples taken @ 1105</u></p> <p><u>*NO FERROUS IRON SAMPLE*</u></p> | <p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius</p> |

| Site <u>Hennepin, IL</u> Inspection Date <u>9/21/23 @ 1010</u> Well Number <u>HEN-XPNO2-P04E</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA | | | | | | | | | | | | | | | | | | | | | |
|---|---|-----|-------------------------------------|----|---|---|---|--|---|---|-----------------|---|---|---|----|--|--|----|--|----|----|--|--|--|--|
| | | | <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | |
| Stick-up Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Outer protective Casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table> | Yes | No | NA | | X | | | ↓ | | Comments | | | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | | | |
| | ↓ | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Inner casing Not corroded Not dented Not cracked Not loose | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> </table> | Yes | No | NA | | X | | | ↓ | | | | | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | | | |
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| 3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition? | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td style="text-align: center;">X</td><td></td><td></td></tr> <tr><td style="text-align: center;">↓</td><td></td><td></td></tr> </table> | Yes | No | NA | | X | | | | X | X | | | ↓ | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | |
| ↓ | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flushmount Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present? | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td></td><td></td><td style="text-align: center;">↓</td></tr> <tr><td></td><td></td><td style="text-align: center;">↓</td></tr> </table> | Yes | No | NA | | | X | | | ↓ | | | ↓ | | | | | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | |
| | | ↓ | | | | | | | | | | | | | | | | | | | | | | | |
| | | ↓ | | | | | | | | | | | | | | | | | | | | | | | |
| All Monitoring Wells | | | | | | | | | | | | | | | | | | | | | | | | | |
| Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well. | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td></td><td style="text-align: center;">X</td><td></td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> <tr><td style="text-align: center;">—</td><td style="text-align: center;">ft</td><td></td></tr> <tr><td style="text-align: center;">—</td><td style="text-align: center;">ft</td><td></td></tr> <tr><td style="text-align: center;">19</td><td style="text-align: center;">ft</td><td></td></tr> </table> | Yes | No | NA | | | X | | X | | | ↓ | | — | ft | | — | ft | | 19 | ft | |  | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | | | | | | | | | | | | | | | | | | | | | | | |
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| — | ft | | | | | | | | | | | | | | | | | | | | | | | | |
| — | ft | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | ft | | | | | | | | | | | | | | | | | | | | | | | | |
| General Condition 18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled? | <table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>Yes</th><th>No</th><th>NA</th></tr> <tr><td style="text-align: center;">X</td><td></td><td></td></tr> <tr><td></td><td></td><td style="text-align: center;">X</td></tr> <tr><td></td><td style="text-align: center;">↓</td><td></td></tr> <tr><td style="text-align: center;">X</td><td></td><td></td></tr> </table> | Yes | No | NA | X | | | | | X | | ↓ | | X | | |  | | | | | | | | |
| Yes | No | NA | | | | | | | | | | | | | | | | | | | | | | | |
| X | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | X | | | | | | | | | | | | | | | | | | | | | | | |
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| X | | | | | | | | | | | | | | | | | | | | | | | | | |
| Comments: | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>DTW: 14.39 ft</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT INFORMATION | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|--|-------------|---|----------------------|---|-----------------|-------------------|----------------|
| Site: _____ | | | | Client: _____ | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: <u>8/24/23</u> | | Time: <u>1252</u> | |
| Field Personnel: <u>TREMBLY</u> | | | | Finish Date: _____ | | | | Time: <u>1450</u> | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>XPW02</u> | | | | <input type="checkbox"/> Well Development | | | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: _____ inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| <u>PCE</u> | <u>1256</u> | <u>4</u> | <u>14.03</u> | | | | | | | | |
| <u>PURGE</u> | <u>1304</u> | <u>0.1</u> | <u>14.19</u> | <u>-0.16</u> | | | | | | | <u>CLEAR</u> |
| <u>SAMPLE</u> | <u>1308</u> | <u>1.0</u> | <u>14.58</u> | <u>-0.39</u> | <u>19.4</u> | <u>12.03</u> | <u>3.071</u> | <u>0.91</u> | <u>89.87</u> | <u>-116.0</u> | |
| | <u>1313</u> | | <u>14.92</u> | <u>-0.36</u> | <u>19.2</u> | <u>12.13</u> | <u>3.111</u> | <u>0.21</u> | <u>59.77</u> | <u>-155.7</u> | |
| | <u>1318</u> | | <u>15.0</u> | <u>-0.18</u> | <u>19.4</u> | <u>12.14</u> | <u>3.109</u> | <u>0.14</u> | <u>40.43</u> | <u>-165.2</u> | |
| | <u>1323</u> | <u>2.5</u> | <u>15.1</u> | <u>-0.1</u> | <u>19.3</u> | <u>12.16</u> | <u>3.129</u> | <u>0.10</u> | <u>28.61</u> | <u>-168.5</u> | |
| | <u>1328</u> | | <u>15.13</u> | <u>-0.03</u> | <u>19.8</u> | <u>12.16</u> | <u>3.146</u> | <u>0.12</u> | <u>29.94</u> | <u>-157.5</u> | |
| | <u>1333</u> | | <u>15.15</u> | <u>-0.02</u> | <u>19.7</u> | <u>12.17</u> | <u>3.163</u> | <u>0.12</u> | <u>22.84</u> | <u>-152.3</u> | |
| | <u>1338</u> | <u>3.25</u> | <u>15.15</u> | <u>0</u> | <u>19.7</u> | <u>12.17</u> | <u>3.191</u> | <u>0.12</u> | <u>23.05</u> | <u>-148.4</u> | |
| NOTES (continued) | | | | | | | | | | | |
| <u>FI - 0.109</u> <u>Sample - 1345</u> <u>EB - 1345</u> | | | | | | ABBREVIATIONS | | | | | |
| | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | | |

| | | | | |
|---|--|-------------------------------------|-------------------------------------|-------------------------------------|
| Site <u>Hennepin, IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/21/23 @ 1005</u> | | | <input checked="" type="checkbox"/> | |
| Well Number <u>HenXPW01 - pore</u> | | | | |
| <u>Stick-up Monitoring Wells</u> | | <u>Comments</u> | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | ↓ | | |
| Not dented | | ↓ | | |
| Not cracked | | ↓ | | |
| Not loose | | ↓ | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| | | <input checked="" type="checkbox"/> | | |
| 4. Weep holes able to drain? | | | <input checked="" type="checkbox"/> | |
| 5. Is there a lockable cap present? | <input checked="" type="checkbox"/> | | | |
| 6. Is there a lock present? | <input checked="" type="checkbox"/> | | | |
| 7. Bumper posts in good condition? | <input checked="" type="checkbox"/> | | | |
| <u>Flushmount Monitoring Wells</u> | | Yes | No | NA |
| 8. Can the lid be secured tightly? | | | | ↓ |
| 9. Does the lid have a gasket that seals? | | | | ↓ |
| 10. No water in the flushmount? | | | | ↓ |
| 11. Is the well cap lockable? | | | | ↓ |
| 12. Is there a lock present? | | | | ↓ |
| <u>All Monitoring Wells</u> | | Yes | No | NA |
| <u>Downhole Condition</u> | | | | |
| 12. Water level measuring point clearly marked? | | | | <input checked="" type="checkbox"/> |
| 13. No obstructions in well? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| 15. No sediment in bottom of well? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| If present, how much sediment? | 17.13 ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | 17.13 ft | | | |
| <u>General Condition</u> | | Yes | No | NA |
| 18. Concrete pad installed? | | | | |
| 19. Concrete pad | | | | ↓ |
| Slope away from casing? | | <input checked="" type="checkbox"/> | | |
| Not deteriorated? | | ↓ | | |
| Not heaved or below surrounding grade? | | ↓ | | |
| 20. No surface seal settling? | | ↓ | | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |
| Comments: | | | | |
| <u>DTW: 9.45 ft Bottom of casing: 17.13 ft</u> | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | |

| PROJECT INFORMATION | | | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--------------------|--|--------------|--|----------------------------|-----------------|---|----------------|---|--|
| Site: _____ | | | | Client: _____ | | | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: <u>8/24/23</u> | | Time: <u>1125</u> | | | |
| Field Personnel: <u>J. Kangley</u> | | | | Finish Date: _____ | | | | Time: <u>1230</u> | | | | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | | | |
| Well ID: <u>XPW01</u> | | | | | <input type="checkbox"/> Well Development | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | |
| Casing ID: _____ inches | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | |
| <u>PPE</u> | <u>1125</u> | | <u>9.45</u> | | | | | | | | | | |
| <u>PURGE</u> | <u>1130</u> | <u>0.1</u> | <u>9.45</u> | <u>Ø</u> | | | | | | | <u>CLEAR</u> | | |
| <u>SAMPLE</u> | <u>1135</u> | <u>0.25</u> | <u>9.45</u> | <u>Ø</u> | <u>19.5</u> | <u>11.30</u> | <u>0.783</u> | <u>0.37</u> | <u>9.22</u> | <u>-241.6</u> | | | |
| | <u>1140</u> | | <u>9.45</u> | <u>Ø</u> | <u>19.5</u> | <u>11.31</u> | <u>0.795</u> | <u>0.22</u> | <u>10.51</u> | <u>-242.4</u> | | | |
| | <u>1145</u> | <u>1.0</u> | <u>9.45</u> | <u>Ø</u> | <u>16.8</u> | <u>11.33</u> | <u>0.801</u> | <u>0.17</u> | <u>13.54</u> | <u>-244.1</u> | | | |
| | <u>1150</u> | | <u>9.45</u> | <u>Ø</u> | <u>19.0</u> | <u>11.33</u> | <u>0.804</u> | <u>0.11</u> | <u>12.05</u> | <u>-248.5</u> | | | |
| | <u>1155</u> | | <u>9.45</u> | <u>Ø</u> | <u>19.2</u> | <u>11.34</u> | <u>0.808</u> | <u>0.11</u> | <u>21.53</u> | <u>-259.5</u> | | | |
| | <u>1200</u> | <u>2.25</u> | <u>9.45</u> | <u>Ø</u> | <u>17.6</u> | <u>11.39</u> | <u>0.815</u> | <u>0.11</u> | <u>54.09</u> | <u>-271.9</u> | | | |
| | <u>1205</u> | | <u>9.45</u> | <u>Ø</u> | <u>17.7</u> | <u>11.39</u> | <u>0.817</u> | <u>0.10</u> | <u>57.11</u> | <u>-273.6</u> | | | |
| | <u>1210</u> | <u>3.5</u> | <u>9.45</u> | <u>Ø</u> | <u>17.7</u> | <u>11.39</u> | <u>0.818</u> | <u>0.10</u> | <u>55.97</u> | <u>-279.1</u> | | | |
| NOTES (continued) | | | | | | | | | | ABBREVIATIONS | | | |
| <p><u>Sample @ 1215</u> <u>FT - UNDER</u> <u>EQUIPMENT BANK @ 1215</u></p> | | | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | |
| | | | | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| | | | | |
|---|---|-------------------------------------|-------------------------------------|-----------------|
| Site <u>Hennepin, IL</u> Inspection Date <u>8/21/23 @ 10:20</u> Well Number <u>HEN-XPW03-P09E</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| | | | <input checked="" type="checkbox"/> | |
| Stick-up Monitoring Wells | | | | |
| 1. Outer protective Casing Not corroded Not dented Not cracked Not loose | Yes | No | NA | Comments |
| | | <input checked="" type="checkbox"/> | | |
| | | ↓ | | |
| | | ↓ | | |
| 2. Inner casing Not corroded Not dented Not cracked Not loose | Yes | No | NA | |
| | | <input checked="" type="checkbox"/> | | |
| | | ↓ | | |
| | | ↓ | | |
| 3. Are there weep holes in outer casing? 4. Weep holes able to drain? 5. Is there a lockable cap present? 6. Is there a lock present? 7. Bumper posts in good condition? | Yes | No | NA | |
| | | <input checked="" type="checkbox"/> | | |
| | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | <input checked="" type="checkbox"/> | | | |
| | ↓ | | | |
| | ↓ | | | |
| | ↓ | | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? 9. Does the lid have a gasket that seals? 10. No water in the flushmount? 11. Is the well cap lockable? 12. Is there a lock present? | Yes | No | NA | |
| | | | <input checked="" type="checkbox"/> | |
| | | | ↓ | |
| | | | ↓ | |
| | | | ↓ | |
| All Monitoring Wells | | | | |
| Downhole Condition 12. Water level measuring point clearly marked? 13. No obstructions in well? 14. No plant roots or vegetation in well? 15. No sediment in bottom of well? If present, how much sediment? 16. Installed as total depth. 17. Measured total depth of well. | Yes | No | NA | |
| | | | <input checked="" type="checkbox"/> | |
| | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |
| | | ↓ | | |
| | | ↓ | | |
| General Condition 18. Concrete pad installed? 19. Concrete pad Slope away from casing? Not deteriorated? Not heaved or below surrounding grade? 20. No surface seal settling? 21. Well clearly visible and labeled? | Yes | No | NA | |
| | <input checked="" type="checkbox"/> | | | |
| | | <input checked="" type="checkbox"/> | | |
| | | ↓ | | |
| | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| Comments: <u>DTW: 9.86 ft</u> | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | |

Monitoring Well Evaluation Checklist

Site: Hennepin Major wells repairs* required to maintain well integrity? Yes No NA
 Inspection Date: 8/21/23 @ 0955
 Well Number: 10

Stick-up Monitoring Wells Comments

1. Outer protective Casing

| | Yes | No | NA |
|--------------|-----|----|----|
| Not corroded | | X | |
| Not dented | | X | |
| Not cracked | | X | |
| Not loose | | X | |

2. Inner casing

| | Yes | No | NA |
|--------------|-----|----|----|
| Not corroded | | X | |
| Not dented | | X | |
| Not cracked | | X | |
| Not loose | | X | |

3. Are there weep holes in outer casing?
 4. Weep holes able to drain?
 5. Is there a lockable cap present?
 6. Is there a lock present?
 7. Bumper posts in good condition?

| | Yes | No | NA |
|--|-----|----|----|
| 3. Are there weep holes in outer casing? | | X | |
| 4. Weep holes able to drain? | | | X |
| 5. Is there a lockable cap present? | X | | |
| 6. Is there a lock present? | X | | |
| 7. Bumper posts in good condition? | X | | |

Flushmount Monitoring Wells

8. Can the lid be secured tightly?
 9. Does the lid have a gasket that seals?
 10. No water in the flushmount?
 11. Is the well cap lockable?
 12. Is there a lock present?

| | Yes | No | NA |
|---|--------------|----|----|
| 8. Can the lid be secured tightly? | X | | X |
| 9. Does the lid have a gasket that seals? | | | X |
| 10. No water in the flushmount? | | | X |
| 11. Is the well cap lockable? | | | X |
| 12. Is there a lock present? | | | X |

All Monitoring Wells

Downhole Condition

12. Water level measuring point clearly marked?
 13. No obstructions in well?
 14. No plant roots or vegetation in well?
 15. No sediment in bottom of well?
 If present, how much sediment?
 16. Installed as total depth?
 17. Measured total depth of well.

| | Yes | No | NA |
|---|----------|----|----|
| 12. Water level measuring point clearly marked? | | | X |
| 13. No obstructions in well? | | X | |
| 14. No plant roots or vegetation in well? | | X | |
| 15. No sediment in bottom of well? | | X | |
| If present, how much sediment? | — ft | | |
| 16. Installed as total depth? | — ft | | |
| 17. Measured total depth of well. | 48.65 ft | | |

General Condition

18. Concrete pad installed?
 19. Concrete pad
 Slope away from casing?
 Not deteriorated?
 Not heaved or below surrounding grade?
 20. No surface seal settling?
 21. Well clearly visible and labeled?

| | Yes | No | NA |
|--|-----|----|----|
| 18. Concrete pad installed? | X | | |
| 19. Concrete pad | — | | |
| Slope away from casing? | | X | |
| Not deteriorated? | | X | |
| Not heaved or below surrounding grade? | | X | |
| 20. No surface seal settling? | | X | |
| 21. Well clearly visible and labeled? | X | | |

Comments: DTW: 48.28 ft Bottom of casing/top of pump 48.65

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/24/23 Time: 0810
 Field Personnel: Allison Beckwith Finish Date: _____ Time: 0900

| WELL INFORMATION | EVENT TYPE |
|--|--|
| Well ID: <u>HEN-10</u> Casing ID: <u>2</u> inches | <input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____ |

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|----------------|-----------------|--------------------------|-----------------------|-----------------|------------|---------|----------------------|-------------------------|-----------------|----------|----------------|
| 0 | 0810 | | 48.15 | | 22.8 | 7.15 | 0.1019 | 1.52 | 4.08 | 138.0 | Clear |
| | 0821 | | 48.12 | | 23.1 | 7.06 | 0.022 | 0.73 | 4.50 | 144.0 | |
| | 0826 | 2.0 | 48.12 | | 23.1 | 7.05 | 0.024 | 0.57 | 7.00 | 144.2 | |
| | 0831 | | 48.12 | | 23.1 | 7.04 | 0.025 | 0.55 | 10.15 | 142.8 | |
| | 0836 | 3.0 | 48.11 | | 23.2 | 7.04 | 0.025 | 0.53 | 4.50 | 141.8 | |
| 2.5 | 0841 | 3.5 | 48.11 | | 23.2 | 7.04 | 0.025 | 0.52 | 3.90 | 140.9 | |
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| NOTES (continued) | ABBREVIATIONS |
|---|--|
| <p>Samples taken @ 0845</p> <p>* NO FERROUS IRON SAMPLE *</p> | <p>Cond - Actual Conductivity ORP - Oxidation-Reduction Potential FT BTOC - Feet Below Top of Casing SEC - Specific Electrical Conductance na - Not Applicable SU - Standard Units nm - Not Measured Temp - Temperature °C - Degrees Celsius</p> |

Monitoring Well Evaluation Checklist

| | | | | |
|--|--|-----|----|----|
| Site <u>Hennepin, IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/21/23 @ 0930</u> | | | X | |
| Well Number <u>50</u> | | | | |

| | Yes | No | NA | |
|--|-----|----|----|-----------------|
| Stick-up Monitoring Wells | | | | |
| 1. Outer protective Casing | | | | Comments |
| Not corroded | | ✓ | | |
| Not dented | | ✓ | | |
| Not cracked | | ✓ | | |
| Not loose | | ✓ | | |
| 2. Inner casing | | | | |
| Not corroded | | ✓ | | |
| Not dented | | ✓ | | |
| Not cracked | | ✓ | | |
| Not loose | | ✓ | | |
| 3. Are there weep holes in outer casing? | | | | |
| 4. Weep holes able to drain? | | ✓ | | |
| 5. Is there a lockable cap present? | | ✓ | | |
| 6. Is there a lock present? | | ✓ | | |
| 7. Bumper posts in good condition? | | ✓ | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? | | | X | |
| 9. Does the lid have a gasket that seals? | | | X | |
| 10. No water in the flushmount? | | | X | |
| 11. Is the well cap lockable? | | | X | |
| 12. Is there a lock present? | | | X | |
| All Monitoring Wells | | | | |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | | | | |
| ft | | | | |
| 16. Installed as total depth. | | | | |
| ft | | | | |
| 17. Measured total depth of well. | | | | |
| ft | | | | |
| General Condition | | | | |
| 18. Concrete pad installed? | ✓ | | | |
| 19. Concrete pad | ✓ | | | |
| Slope away from casing? | | ✓ | | |
| Not deteriorated? | | ✓ | | |
| Not heaved or below surrounding grade? | | ✓ | | |
| 20. No surface seal settling? | ✓ | | | |
| 21. Well clearly visible and labeled? | ✓ | | | |
| Comments: | | | | |
| | | | | |
| | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

Monitoring Well Evaluation Checklist

| | | | | |
|---|---|----------------------------|----|----|
| Site | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>2/25/23</u> | | | X | |
| Well Number <u>HEN 34</u> | | | | |
| <u>Stick-up Monitoring Wells</u> | | <u>Comments</u> | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |
| <u>Flushmount Monitoring Wells</u> | | Yes No NA | | |
| 8. Can the lid be secured tightly? | Yes No NA | | | |
| 9. Does the lid have a gasket that seals? | Yes No NA | | | |
| 10. No water in the flushmount? | Yes No NA | | | |
| 11. Is the well cap lockable? | Yes No NA | | | |
| 12. Is there a lock present? | Yes No NA | | | |
| <u>All Monitoring Wells</u> | | Yes No NA | | |
| <u>Downhole Condition</u> | | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | | X | |
| 14. No plant roots or vegetation in well? | | | X | |
| 15. No sediment in bottom of well? | | | X | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| <u>General Condition</u> | | Yes | No | NA |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| | | | | |
| | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | |

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--------------------|--|-----------------|---|--|------------------|-------------------|----------------|---|--|--|--|
| Site: _____ | | | | Client: _____ | | | | | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: 8/25/23 | | Time: 1053 | | | | | |
| Field Personnel: TREMBLY | | | | Finish Date: _____ | | | | Time: 1145 | | | | | | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | | | | | |
| Well ID: HCN 34 | | | | | <input type="checkbox"/> Well Development | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | |
| Casing ID: _____ inches | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| Purge | 1055 | 0-1 | | | 13.2 | 7.21 | 0.948 | 2.06 | 14.02 | 116.2 | CLEAR | | | | |
| | 1100 | | | | 13.7 | 7.21 | 0.948 | 2.06 | 14.02 | -116.2 | CLEAR | | | | |
| | 1105 | | | | 12.8 | 7.09 | 0.966 | 0.25 | 7.80 | -108.6 | ↓ | | | | |
| | 1110 | 2.5 | | | 12.8 | 7.08 | 0.969 | 0.21 | 6.54 | -110.4 | | | | | |
| | 1115 | | | | 12.7 | 7.08 | 0.971 | 0.22 | 5.51 | -111.2 | | | | | |
| | 1120 | | | | 12.8 | 7.08 | 0.972 | 0.20 | 4.81 | -110.7 | | | | | |
| | 1125 | | | | | | | | | | | | | | |
| | 1130 | | | | | | | | | | | | | | |
| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| F1 - UNDERG SAMPLE @ 1125 | | | | | | | | Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |
| | | | | | | | | | | | | | | | |

| | | | | |
|---|--|------------------------|-------------------------------------|-----------|
| Site | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>2/25/23</u> | | | <input checked="" type="checkbox"/> | |
| Well Number <u>HEN 49</u> | | | | |
| <u>Stick-up Monitoring Wells</u> | | <u>Comments</u> | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | X | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | X | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | X | | | |
| 7. Bumper posts in good condition? | X | | | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| <u>All Monitoring Wells</u> | | | | |
| <u>Downhole Condition</u> | | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | X | |
| 13. No obstructions in well? | | | X | |
| 14. No plant roots or vegetation in well? | | | X | |
| 15. No sediment in bottom of well? | | | X | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| <u>General Condition</u> | | Yes | No | NA |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| <u>BATTERY WAS REPLACED + WOULD NOT CONNECT. WELL WAS GAUGED MANUALLY</u> | | | | |
| * Major well repair are those that require a subcontractor or separate mobilization to complete | | | | |

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|-----------------|------------|--|----------------------|---|-----------------|----------|----------------|---|--|--|--|
| Site: <u>Hennepin, IL</u> | | | | | | Client: <u>Ramboll</u> | | | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: <u>8/25/23</u> | | | | Time: <u>0925</u> | | | |
| Field Personnel: <u>Allison B. [unclear]</u> | | | | | | Finish Date: _____ | | | | | | Time: <u>1055</u> | | | |
| WELL INFORMATION | | | | | | EVENT TYPE | | | | | | | | | |
| Well ID: <u>HEN-49</u> | | | | | | <input type="checkbox"/> Well Development <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | | |
| Casing ID: <u>2</u> inches | | | | | | <input type="checkbox"/> Well Volume Approach Sampling <input type="checkbox"/> Other (Specify): _____ | | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| 09 | 1032 | | 19.65 | | 15.5 | 7.2 | 0.700 | 1.40 | 72.1 | -1.5 | Clear | | | | |
| 09 | 1037 | | 19.65 | | 15.3 | 7.13 | 0.698 | 0.22 | 92.38 | 38.0 | Brown & murky | | | | |
| 09 | 1042 | 2.0 | 19.65 | | 15.4 | 7.12 | 0.1298 | 0.17 | 110.79 | 48.6 | ↓ | | | | |
| 09 | 1047 | | 19.64 | | 15.4 | 7.12 | 0.1198 | 0.15 | 122.4 | 57.7 | | | | | |
| 09 | 1052 | | 19.65 | | 15.4 | 7.12 | 0.667 | 0.13 | 121.9 | 58.8 | | | | | |
| 09 | 1057 | 5.0 | 19.64 | | 16.4 | 7.12 | 0.698 | 0.12 | 122.9 | 59.1 | | | | | |
| 10 | 1102 | | 19.65 | | 15.3 | 7.12 | 0.698 | 0.11 | 123.6 | 58.2 | | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| Sample taken @ 1005 Ferrous iron sample @ 1030: underrange | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |
| | | | | | | | | | | | | | | | |

| | | | | |
|---|---|-------------------------------------|-------------------------------------|----|
| Site <u>HENNEPIN 2</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/28/23 0815</u> | | | <input checked="" type="checkbox"/> | |
| Well Number <u>HEN-10</u> | | | | |
| <u>Stick-up Monitoring Wells</u> | | <u>Comments</u> | | |
| 1. Outer protective Casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | Yes | No | NA | |
| Not corroded | | <input checked="" type="checkbox"/> | | |
| Not dented | | ↓ | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | Yes | No | NA | |
| 4. Weep holes able to drain? | | <input checked="" type="checkbox"/> | | |
| 5. Is there a lockable cap present? | | | <input checked="" type="checkbox"/> | |
| 6. Is there a lock present? | <input checked="" type="checkbox"/> | | | |
| 7. Bumper posts in good condition? | | | | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | Yes | No | NA | |
| 9. Does the lid have a gasket that seals? | | | <input checked="" type="checkbox"/> | |
| 10. No water in the flushmount? | | | ↓ | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | ↓ | |
| <u>All Monitoring Wells</u> | | | | |
| <u>Downhole Condition</u> | | Yes | No | NA |
| 12. Water level measuring point clearly marked? | | | | |
| 13. No obstructions in well? | | <input checked="" type="checkbox"/> | | |
| 14. No plant roots or vegetation in well? | | ↓ | | |
| 15. No sediment in bottom of well? | | | | |
| If present, how much sediment? | — ft | | | |
| 16. Installed as total depth. | — ft | | | |
| 17. Measured total depth of well. | — ft | | | |
| <u>General Condition</u> | | Yes | No | NA |
| 18. Concrete pad installed? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | | <input checked="" type="checkbox"/> | |
| Not deteriorated? | | | ↓ | |
| Not heaved or below surrounding grade? | | | | |
| 20. No surface seal settling? | | | ↓ | |
| 21. Well clearly visible and labeled? | <input checked="" type="checkbox"/> | | | |
| Comments: | | | | |
| <i>DTW: 53.90, dead batteries/transducer is fried</i> | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: Hennepin, IL Client: Ramboll
 Project Number: _____ Task #: _____ Start Date: 8/28/23 Time: 0800
 Field Personnel: Allison Beckert Finish Date: _____ Time: 0905

| WELL INFORMATION | EVENT TYPE |
|--|--|
| Well ID: <u>HEN-10</u> Casing ID: <u>2</u> inches | <input type="checkbox"/> Well Development <input type="checkbox"/> Well Volume Approach Sampling <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling <input type="checkbox"/> Other (Specify): _____ |

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|----------------|-----------------|--------------------------|-----------------------|-----------------|-------------|-------------|----------------------|-------------------------|-----------------|--------------|-----------------------|
| | <u>0808</u> | | <u>53.90</u> | | <u>19.7</u> | <u>7.47</u> | <u>0.550</u> | <u>8.13</u> | <u>4.40</u> | <u>114.5</u> | <u>clear</u> |
| | <u>0813</u> | | <u>53.90</u> | | <u>22.5</u> | <u>7.23</u> | <u>0.553</u> | <u>1.41</u> | <u>3.88</u> | <u>131.4</u> | ↓ ↓ ↓ ↓ ↓ |
| | <u>0818</u> | | <u>53.90</u> | | <u>22.7</u> | <u>7.23</u> | <u>0.554</u> | <u>1.21</u> | <u>3.92</u> | <u>131.1</u> | |
| | <u>0823</u> | <u>1.0</u> | <u>53.90</u> | | <u>22.8</u> | <u>7.23</u> | <u>0.556</u> | <u>0.53</u> | <u>3.85</u> | <u>126.8</u> | |
| | <u>0828</u> | | <u>53.90</u> | | <u>22.8</u> | <u>7.23</u> | <u>0.556</u> | <u>0.41</u> | <u>3.89</u> | <u>123.5</u> | |
| | <u>0833</u> | <u>2.0</u> | <u>53.90</u> | | <u>22.8</u> | <u>7.23</u> | <u>0.556</u> | <u>0.37</u> | <u>3.99</u> | <u>122.7</u> | |
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| NOTES (continued) | ABBREVIATIONS |
|---|---|
| <p><u>Samples taken @ 0835</u></p> <p><u>Ferrrous iron sample @ 0850: Under range</u></p> | <p>Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured</p> <p>ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius</p> |

Monitoring Well Evaluation Checklist

| | | | | |
|--|--|-----|-------------------------------------|----|
| Site <u>Hennepin, IL</u> | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/28/23 @ 0915</u> | | | <input checked="" type="checkbox"/> | |
| Well Number <u>HEN-17</u> | | | | |

Stick-up Monitoring Wells

Comments

1. Outer protective Casing
- Not corroded
 - Not dented
 - Not cracked
 - Not loose

| Yes | No | NA |
|-----|----|----|
| | X | |
| | ↓ | |
| | ↓ | |

2. Inner casing
- Not corroded
 - Not dented
 - Not cracked
 - Not loose

| Yes | No | NA |
|-----|----|----|
| | X | |
| | ↓ | |
| | ↓ | |

3. Are there weep holes in outer casing?
 4. Weep holes able to drain?
 5. Is there a lockable cap present?
 6. Is there a lock present?
 7. Bumper posts in good condition?

| Yes | No | NA |
|-----|----|----|
| | X | |
| | | X |
| X | | |
| ↓ | | |

Flushmount Monitoring Wells

8. Can the lid be secured tightly?
 9. Does the lid have a gasket that seals?
 10. No water in the flushmount?
 11. Is the well cap lockable?
 12. Is there a lock present?

| Yes | No | NA |
|-----|----|----|
| | | X |
| | | ↓ |
| | | ↓ |

All Monitoring Wells

- Downhole Condition**
12. Water level measuring point clearly marked?
 13. No obstructions in well?
 14. No plant roots or vegetation in well?
 15. No sediment in bottom of well?
 If present, how much sediment?
 16. Installed as total depth.
 17. Measured total depth of well.

| Yes | No | NA |
|-----|----|----|
| | | X |
| | X | |
| | ↓ | |
| — | ft | |
| — | ft | |
| — | ft | |

General Condition

18. Concrete pad installed?
 19. Concrete pad
 Slope away from casing?
 Not deteriorated?
 Not heaved or below surrounding grade?
 20. No surface seal settling?
 21. Well clearly visible and labeled?

| Yes | No | NA |
|-----|----|---------|
| X | | |
| | X | |
| X | | cracked |
| X | | cracked |
| | X | |
| X | | |

Comments:

DTW: on app

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | | | | | |
|---|-----------------|--------------------------|-----------------------|------------------------|--|----------------------------|--|------------------------------------|-------------------|--------------|----------------|---------------------------------------|--|--|--|
| Site: <u>Hennepin, IL</u> | | | | Client: <u>Kamboll</u> | | | | | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | | Start Date: <u>8/28/23</u> | | | Time: <u>0905</u> | | | | | | |
| Field Personnel: <u>Amison Beckert</u> | | | | Finish Date: _____ | | | | Time: <u>1030</u> | | | | | | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | | | | | |
| Well ID: <u>HEN-17</u> | | | | | <input type="checkbox"/> Well Development | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | | | | | | |
| Casing ID: <u>2</u> inches | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity | | | | |
| | <u>0911</u> | | | | <u>22.6</u> | <u>7.15</u> | <u>0.565</u> | <u>5.91</u> | <u>5.06</u> | <u>137.9</u> | <u>clear</u> | | | | |
| | <u>0916</u> | | | | <u>22.7</u> | <u>7.35</u> | <u>0.514</u> | <u>6.13</u> | <u>3.97</u> | <u>140.7</u> | <u> </u> | | | | |
| | <u>0921</u> | | | | <u>22.5</u> | <u>7.35</u> | <u>0.508</u> | <u>6.06</u> | <u>4.08</u> | <u>144.3</u> | <u> </u> | | | | |
| | <u>0926</u> | <u>1.0</u> | | | <u>22.5</u> | <u>7.35</u> | <u>0.508</u> | <u>6.00</u> | <u>3.96</u> | <u>146.5</u> | <u> </u> | | | | |
| | <u>0931</u> | | | | <u>22.4</u> | <u>7.34</u> | <u>0.507</u> | <u>5.88</u> | <u>3.99</u> | <u>147.0</u> | <u> </u> | | | | |
| | <u>0936</u> | <u>2.0</u> | | | <u>22.4</u> | <u>7.34</u> | <u>0.506</u> | <u>5.76</u> | <u>4.02</u> | <u>148.2</u> | <u>↓</u> | | | | |
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| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | | | | | |
| <p>Samples taken @ 0940</p> <p>Ferrous iron sample @ 0945: Under range</p> <p>dupe @ 0940</p> | | | | | | | | Cond. - Actual Conductivity | | | | ORP - Oxidation-Reduction Potential | | | |
| | | | | | | | | FT BTOC - Feet Below Top of Casing | | | | SEC - Specific Electrical Conductance | | | |
| na - Not Applicable | | | | SU - Standard Units | | | | Temp - Temperature | | | | | | | |
| nm - Not Measured | | | | °C - Degrees Celsius | | | | | | | | | | | |

Monitoring Well Evaluation Checklist

| | | | | |
|------------------------------------|---|-----|----|----|
| Site | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date <u>8/28</u> | | | X | |
| Well Number <u>032</u> | | | | |

| | Yes | No | NA | |
|--|-----|----|----|-----------------|
| Stick-up Monitoring Wells | | | | |
| 1. Outer protective Casing | | | | Comments |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| 2. Inner casing | | | | |
| Not corroded | | X | | |
| Not dented | | X | | |
| Not cracked | | X | | |
| Not loose | | X | | |
| 3. Are there weep holes in outer casing? | | X | NA | |
| 4. Weep holes able to drain? | X | | NA | |
| 5. Is there a lockable cap present? | X | | NA | |
| 6. Is there a lock present? | X | | NA | |
| 7. Bumper posts in good condition? | X | | | |
| Flushmount Monitoring Wells | | | | |
| 8. Can the lid be secured tightly? | | | | |
| 9. Does the lid have a gasket that seals? | | | | |
| 10. No water in the flushmount? | | | | |
| 11. Is the well cap lockable? | | | | |
| 12. Is there a lock present? | | | | |
| All Monitoring Wells | | | | |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | | X | | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| General Condition | | | | |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| | | | | |
| | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--------------------|--|-------------|---|---|-----------------|-------------------|----------------|
| Site: _____ | | | | Client: _____ | | | | | | | |
| Project Number: _____ | | | | Task #: _____ | | | | Start Date: <u>8/28</u> | | Time: <u>0906</u> | |
| Field Personnel: <u>TREMBLAY</u> | | | | Finish Date: _____ | | | | Time: <u>121</u> | | | |
| WELL INFORMATION | | | | | EVENT TYPE | | | | | | |
| Well ID: <u>03R</u> | | | | | <input type="checkbox"/> Well Development | | <input type="checkbox"/> Low-Flow / Low Stress Sampling | | | | |
| Casing ID: _____ inches | | | | | <input type="checkbox"/> Well Volume Approach Sampling | | <input type="checkbox"/> Other (Specify): _____ | | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| <u>Purge</u> | <u>0915</u> | <u>0.1</u> | | | | | | | 10.8 | 137.8 | <u>Clear</u> |
| <u>Sample</u> | <u>0920</u> | | | | <u>18.2</u> | <u>7.22</u> | <u>0.655</u> | <u>0.81</u> | <u>10.85</u> | 137.8 | <u>1</u> |
| | <u>0925</u> | <u>1.0</u> | | | <u>18.2</u> | <u>7.21</u> | <u>0.653</u> | <u>0.32</u> | <u>5.46</u> | <u>137.8</u> | |
| | <u>0930</u> | | | | <u>18.2</u> | <u>7.21</u> | <u>0.653</u> | <u>0.22</u> | <u>3.81</u> | <u>132.9</u> | |
| | <u>0935</u> | | | | <u>18.3</u> | <u>7.21</u> | <u>0.653</u> | <u>0.22</u> | <u>2.99</u> | <u>129.4</u> | |
| | <u>0940</u> | <u>2.25</u> | | | <u>18.3</u> | <u>7.20</u> | <u>0.652</u> | <u>0.21</u> | <u>2.54</u> | <u>126.9</u> | |
| | <u>0945</u> | | | | | | | | | | |
| | <u>0950</u> | | | | | | | | | | |
| | <u>0955</u> | | | | | | | | | | |
| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | |
| <u>FI - UNDER</u> <u>SMA @ 0945</u> | | | | | | | | Cond - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | |
| | | | | | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celcius | | | |

| | | | | |
|--------------------------------|---|-----|----|----|
| Site | Major wells repairs* required to maintain well integrity? | Yes | No | NA |
| Inspection Date 8/28/23 | | | X | |
| Well Number 125 | | | | |

| | Yes | No | NA | |
|---|----------------|----|----|--|
| <u>Stick-up Monitoring Wells</u> | | | | |
| 1. Outer protective Casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 2. Inner casing | | X | | |
| Not corroded | | ↓ | | |
| Not dented | | | | |
| Not cracked | | | | |
| Not loose | | | | |
| 3. Are there weep holes in outer casing? | | X | | |
| 4. Weep holes able to drain? | | | X | |
| 5. Is there a lockable cap present? | X | | | |
| 6. Is there a lock present? | ↓ | | | |
| 7. Bumper posts in good condition? | | | | |
| <u>Flushmount Monitoring Wells</u> | | | | |
| 8. Can the lid be secured tightly? | Yes | | | |
| 9. Does the lid have a gasket that seals? | No | | | |
| 10. No water in the flushmount? | NA | | | |
| 11. Is the well cap lockable? | Yes | | | |
| 12. Is there a lock present? | No | | | |
| <u>All Monitoring Wells</u> | | | | |
| Downhole Condition | | | | |
| 12. Water level measuring point clearly marked? | | X | | |
| 13. No obstructions in well? | | X | | |
| 14. No plant roots or vegetation in well? | | X | | |
| 15. No sediment in bottom of well? | | X | | |
| If present, how much sediment? | ft | | | |
| 16. Installed as total depth. | ft | | | |
| 17. Measured total depth of well. | ft | | | |
| General Condition | | | | |
| 18. Concrete pad installed? | X | | | |
| 19. Concrete pad | | | | |
| Slope away from casing? | | X | | |
| Not deteriorated? | | X | | |
| Not heaved or below surrounding grade? | | X | | |
| 20. No surface seal settling? | | X | | |
| 21. Well clearly visible and labeled? | X | | | |
| Comments: | | | | |
| | | | | |
| | | | | |

* Major well repair are those that require a subcontractor or separate mobilization to complete

PROJECT INFORMATION

Site: _____ Client: _____
Project Number: _____ Task #: _____ Start Date: 8/28/23 Time: 0800
Field Personnel: Transley _____ Finish Date: 8/28/23 Time: 0905

WELL INFORMATION

Well ID: 185
Casing ID: _____ inches

EVENT TYPE

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

WATER QUALITY INDICATOR PARAMETERS (continued)

| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
|----------------|-----------------|--------------------------|-----------------------|-----------------|------------|---------|----------------------|-------------------------|-----------------|----------|----------------|
| 0800 | 0810 | 0.25 | | | | | | | | | Clear |
| | 0811 | | | | 16.8 | 7.52 | 0.666 | 2.30 | 5.45 | 104.0 | |
| | 0816 | | | | 16.7 | 7.39 | 0.661 | 0.42 | 3.20 | 103.2 | |
| | 0821 | | | | 16.8 | 7.39 | 0.661 | 0.26 | 2.61 | 98.1 | |
| | 0826 | 2.25 | | | 16.8 | 7.38 | 0.661 | 0.22 | 2.49 | 75.5 | |
| | 0831 | 2.5 | | | 16.8 | 7.38 | 0.661 | 0.20 | 2.46 | 94.1 | |
| | 0836 | | | | | | | | | | |
| | 0841 | | | | | | | | | | |
| | 0846 | | | | | | | | | | |
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NOTES (continued)

FI - UNDER
0835
sample

ABBREVIATIONS

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

Monitoring Well Evaluation Checklist

Site: Hennepin, IL
 Inspection Date: 8/21/23 @ 1125
 Well Number: HEN-455

Major wells repairs* required to maintain well integrity?

| | | |
|-----|----|----|
| Yes | No | NA |
| | X | |

Stick-up Monitoring Wells

1. Outer protective Casing
 Not corroded
 Not dented
 Not cracked
 Not loose

| Yes | No | NA |
|-----|----|---------------|
| | X | NA |
| | ↓ | NA |
| | | NA |

Comments

2. Inner casing
 Not corroded
 Not dented
 Not cracked
 Not loose

| Yes | No | NA |
|-----|----|----|
| | X | |
| | ↓ | |
| | | |

3. Are there weep holes in outer casing?
 4. Weep holes able to drain?
 5. Is there a lockable cap present?
 6. Is there a lock present?
 7. Bumper posts in good condition?

| Yes | No | NA |
|-----|----|----|
| | X | |
| | | X |
| X | | |
| ↓ | | |

Flushmount Monitoring Wells

8. Can the lid be secured tightly?
 9. Does the lid have a gasket that seals?
 10. No water in the flushmount?
 11. Is the well cap lockable?
 12. Is there a lock present?

| Yes | No | NA |
|-----|----|----|
| | | X |
| | | ↓ |
| | | |

All Monitoring Wells

- Downhole Condition**
 12. Water level measuring point clearly marked?
 13. No obstructions in well?
 14. No plant roots or vegetation in well?
 15. No sediment in bottom of well?
 If present, how much sediment?
 16. Installed as total depth.
 17. Measured total depth of well.

| Yes | No | NA |
|-------|----|----|
| <hr/> | | |
| | | X |
| | X | |
| | ↓ | |
| - | ft | |
| | ft | |
| 3019 | ft | |

- General Condition**
 18. Concrete pad installed?
 19. Concrete pad
 Slope away from casing?
 Not deteriorated?
 Not heaved or below surrounding grade?
 20. No surface seal settling?
 21. Well clearly visible and labeled?

| Yes | No | NA |
|-------|----|----|
| X | | |
| <hr/> | | |
| | X | |
| | ↓ | |
| X | | |

Comments:
 DTW: 18.78 p/m installed

* Major well repair are those that require a subcontractor or separate mobilization to complete

| PROJECT INFORMATION | | | | | | | | | | | |
|--|-----------------|--------------------------|-----------------------|--|-------------|----------------------------|----------------------|---|-------------------|--------------|--------------------|
| Site: <u>Hennepin, IL</u> | | | | Client: <u>Ramboll</u> | | | | | | | |
| Project Number: _____ | | | Task #: _____ | | | Start Date: <u>8/28/23</u> | | | Time: <u>1040</u> | | |
| Field Personnel: <u>Allison Beckwith</u> | | | | Finish Date: _____ | | | | Time: <u>1140</u> | | | |
| WELL INFORMATION | | | | EVENT TYPE | | | | | | | |
| Well ID: <u>HEN-455</u> | | | | <input type="checkbox"/> Well Development | | | | <input checked="" type="checkbox"/> Low-Flow / Low Stress Sampling | | | |
| Casing ID: <u>2</u> inches | | | | <input type="checkbox"/> Well Volume Approach Sampling | | | | <input type="checkbox"/> Other (Specify): _____ | | | |
| WATER QUALITY INDICATOR PARAMETERS (continued) | | | | | | | | | | | |
| Sampling Stage | Time (military) | Volume Removed (gallons) | Depth to Water (Feet) | Drawdown (Feet) | Temp. (°C) | pH (SU) | SEC or Cond. (µs/cm) | Dissolved Oxygen (mg/L) | Turbidity (NTU) | ORP (mV) | Visual Clarity |
| | <u>1044</u> | | <u>18.98</u> | | <u>19.3</u> | <u>7.32</u> | <u>0.700</u> | <u>3.27</u> | <u>9.13</u> | <u>57.9</u> | <u>clear</u> |
| | <u>1049</u> | | <u>18.97</u> | | <u>19.1</u> | <u>7.17</u> | <u>0.041</u> | <u>0.25</u> | <u>148.24</u> | <u>108.9</u> | <u>Brown/mucky</u> |
| | <u>1054</u> | <u>2.5</u> | <u>18.98</u> | | <u>19.1</u> | <u>7.10</u> | <u>0.040</u> | <u>0.72</u> | <u>130.10</u> | <u>111.7</u> | ↓ |
| | <u>1059</u> | | <u>18.98</u> | | <u>19.1</u> | <u>7.10</u> | <u>0.040</u> | <u>0.19</u> | <u>89.9</u> | <u>110.1</u> | |
| | <u>1104</u> | | <u>18.98</u> | | <u>19.1</u> | <u>7.10</u> | <u>0.040</u> | <u>0.18</u> | <u>107.30</u> | <u>118.0</u> | |
| | <u>1109</u> | <u>5.0</u> | <u>18.98</u> | | <u>19.1</u> | <u>7.10</u> | <u>0.040</u> | <u>0.17</u> | <u>54.30</u> | <u>119.2</u> | |
| | <u>1114</u> | | <u>18.98</u> | | <u>19.1</u> | <u>7.10</u> | <u>0.040</u> | <u>0.17</u> | <u>55.00</u> | <u>120.2</u> | |
| NOTES (continued) | | | | | | | | ABBREVIATIONS | | | |
| <p>Samples taken @ 1115 1115</p> <p>Ferrous iron sample @ 1130: under range</p> | | | | | | | | Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured | | | |
| | | | | | | | | ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius | | | |

**ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 3, 2023**

ATTACHMENT C.

COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023

845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 ASH POND NO. 2 AND ASH POND NO. 4
 HENNEPIN, IL

| Well ID | HSU | Event | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | Background |
|---------|-----|-------|--------------------------------|-------|---------------------|--------------|------------|-------------------------|--------------------|------------|
| 03R | UA | E002 | Antimony, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.003 | 0.001 |
| 03R | UA | E002 | Arsenic, total | mg/L | 12/09/15 - 08/28/23 | 24 | 100 | All ND - Last | 0.001 | 0.001 |
| 03R | UA | E002 | Barium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CI around mean | 0.062 | 0.212 |
| 03R | UA | E002 | Beryllium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.001 | 0.001 |
| 03R | UA | E002 | Boron, total | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around linear reg | 0.5 | 0.163 |
| 03R | UA | E002 | Cadmium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 92 | CI around median | 0.001 | 0.00230 |
| 03R | UA | E002 | Chloride, total | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around linear reg | 76.7 | 435 |
| 03R | UA | E002 | Chromium, total | mg/L | 12/09/15 - 08/28/23 | 24 | 92 | CB around T-S line | 0.0015 | 0.00100 |
| 03R | UA | E002 | Cobalt, total | mg/L | 12/09/15 - 08/28/23 | 25 | 96 | CI around median | 0.001 | 0.0380 |
| 03R | UA | E002 | Fluoride, total | mg/L | 12/09/15 - 08/28/23 | 27 | 4 | CI around geomean | 0.27 | 0.120 |
| 03R | UA | E002 | Lead, total | mg/L | 12/09/15 - 08/28/23 | 24 | 100 | All ND - Last | 0.0005 | 0.00150 |
| 03R | UA | E002 | Lithium, total | mg/L | 12/09/15 - 08/28/23 | 29 | 0 | CI around mean | 0.0244 | 0.0190 |
| 03R | UA | E002 | Mercury, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.0002 | 0.0002 |
| 03R | UA | E002 | Molybdenum, total | mg/L | 12/09/15 - 08/28/23 | 29 | 0 | CB around linear reg | 0.0938 | 0.00170 |
| 03R | UA | E002 | pH (field) | SU | 12/09/15 - 08/28/23 | 33 | 0 | CB around T-S line | 7.0/7.2 | 6.6/7.5 |
| 03R | UA | E002 | Radium 226 + Radium 228, total | pCi/L | 12/09/15 - 08/28/23 | 24 | 0 | CI around median | 0.27 | 1.50 |
| 03R | UA | E002 | Selenium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CI around mean | 0.00497 | 0.00140 |
| 03R | UA | E002 | Sulfate, total | mg/L | 12/09/15 - 08/28/23 | 29 | 0 | CB around linear reg | 76.2 | 215 |
| 03R | UA | E002 | Thallium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.002 | 0.001 |
| 03R | UA | E002 | Total Dissolved Solids | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CI around mean | 509 | 1,620 |
| 18S | UA | E002 | Antimony, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.003 | 0.001 |
| 18S | UA | E002 | Arsenic, total | mg/L | 12/09/15 - 08/28/23 | 24 | 96 | CI around median | 0.001 | 0.001 |
| 18S | UA | E002 | Barium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CB around linear reg | 0.0505 | 0.212 |
| 18S | UA | E002 | Beryllium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.001 | 0.001 |
| 18S | UA | E002 | Boron, total | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around T-S line | 0.978 | 0.163 |
| 18S | UA | E002 | Cadmium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 76 | CI around median | 0.001 | 0.00230 |
| 18S | UA | E002 | Chloride, total | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around linear reg | 69.2 | 435 |

ATTACHMENT C.

COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023

845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 ASH POND NO. 2 AND ASH POND NO. 4
 HENNEPIN, IL

| Well ID | HSU | Event | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | Background |
|---------|-----|-------|--------------------------------|-------|---------------------|--------------|------------|-------------------------|--------------------|------------|
| 18S | UA | E002 | Chromium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 55 | CI around median | 0.0015 | 0.00100 |
| 18S | UA | E002 | Cobalt, total | mg/L | 12/09/15 - 08/28/23 | 25 | 83 | CI around median | 0.001 | 0.0380 |
| 18S | UA | E002 | Fluoride, total | mg/L | 12/09/15 - 08/28/23 | 27 | 3 | CB around T-S line | 0.168 | 0.120 |
| 18S | UA | E002 | Lead, total | mg/L | 12/09/15 - 08/28/23 | 24 | 100 | All ND - Last | 0.0005 | 0.00150 |
| 18S | UA | E002 | Lithium, total | mg/L | 12/09/15 - 08/28/23 | 29 | 0 | CB around linear reg | 0.0372 | 0.0190 |
| 18S | UA | E002 | Mercury, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.0002 | 0.0002 |
| 18S | UA | E002 | Molybdenum, total | mg/L | 12/09/15 - 08/28/23 | 29 | 0 | CB around linear reg | 0.0908 | 0.00170 |
| 18S | UA | E002 | pH (field) | SU | 12/09/15 - 08/28/23 | 33 | 0 | CB around T-S line | 7.2/7.3 | 6.6/7.5 |
| 18S | UA | E002 | Radium 226 + Radium 228, total | pCi/L | 12/09/15 - 08/28/23 | 24 | 0 | CI around mean | 0.317 | 1.50 |
| 18S | UA | E002 | Selenium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 3 | CB around T-S line | 0.00339 | 0.00140 |
| 18S | UA | E002 | Sulfate, total | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around T-S line | 89.8 | 215 |
| 18S | UA | E002 | Thallium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.002 | 0.001 |
| 18S | UA | E002 | Total Dissolved Solids | mg/L | 12/09/15 - 08/28/23 | 30 | 0 | CB around T-S line | 477 | 1,620 |
| 18D | UA | E002 | Antimony, total | mg/L | 12/09/15 - 08/23/23 | 23 | 100 | All ND - Last | 0.003 | 0.001 |
| 18D | UA | E002 | Arsenic, total | mg/L | 12/09/15 - 08/23/23 | 24 | 96 | CI around median | 0.001 | 0.001 |
| 18D | UA | E002 | Barium, total | mg/L | 12/09/15 - 08/23/23 | 26 | 0 | CB around T-S line | 0.0613 | 0.212 |
| 18D | UA | E002 | Beryllium, total | mg/L | 12/09/15 - 08/23/23 | 23 | 100 | All ND - Last | 0.001 | 0.001 |
| 18D | UA | E002 | Boron, total | mg/L | 12/09/15 - 08/23/23 | 30 | 0 | CB around linear reg | 1.25 | 0.163 |
| 18D | UA | E002 | Cadmium, total | mg/L | 12/09/15 - 08/23/23 | 25 | 93 | CI around median | 0.001 | 0.00230 |
| 18D | UA | E002 | Chloride, total | mg/L | 12/09/15 - 08/23/23 | 30 | 0 | CI around mean | 76.2 | 435 |
| 18D | UA | E002 | Chromium, total | mg/L | 12/09/15 - 08/23/23 | 24 | 93 | CB around T-S line | 0.0015 | 0.00100 |
| 18D | UA | E002 | Cobalt, total | mg/L | 12/09/15 - 08/23/23 | 26 | 3 | CB around linear reg | 0.000289 | 0.0380 |
| 18D | UA | E002 | Fluoride, total | mg/L | 12/09/15 - 08/23/23 | 27 | 3 | CI around median | 0.15 | 0.120 |
| 18D | UA | E002 | Lead, total | mg/L | 12/09/15 - 08/23/23 | 24 | 96 | CI around median | 0.001 | 0.00150 |
| 18D | UA | E002 | Lithium, total | mg/L | 12/09/15 - 08/23/23 | 29 | 0 | CB around linear reg | 0.0231 | 0.0190 |
| 18D | UA | E002 | Mercury, total | mg/L | 12/09/15 - 08/23/23 | 23 | 100 | All ND - Last | 0.0002 | 0.0002 |
| 18D | UA | E002 | Molybdenum, total | mg/L | 12/09/15 - 08/23/23 | 29 | 0 | CI around median | 0.0315 | 0.00170 |

ATTACHMENT C.

COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023

845 QUARTERLY REPORT
 HENNEPIN POWER PLANT
 ASH POND NO. 2 AND ASH POND NO. 4
 HENNEPIN, IL

| Well ID | HSU | Event | Parameter | Units | Date Range | Sample Count | Percent ND | Statistical Calculation | Statistical Result | Background |
|---------|-----|-------|--------------------------------|-------|---------------------|--------------|------------|-------------------------|--------------------|------------|
| 18D | UA | E002 | pH (field) | SU | 12/09/15 - 08/23/23 | 33 | 0 | CI around mean | 7.1/7.2 | 6.6/7.5 |
| 18D | UA | E002 | Radium 226 + Radium 228, total | pCi/L | 12/09/15 - 08/23/23 | 24 | 0 | CI around mean | 0.518 | 1.50 |
| 18D | UA | E002 | Selenium, total | mg/L | 12/09/15 - 08/23/23 | 25 | 93 | CI around median | 0.001 | 0.00140 |
| 18D | UA | E002 | Sulfate, total | mg/L | 12/09/15 - 08/23/23 | 30 | 0 | CB around linear reg | 88.5 | 215 |
| 18D | UA | E002 | Thallium, total | mg/L | 12/09/15 - 08/23/23 | 23 | 100 | All ND - Last | 0.002 | 0.001 |
| 18D | UA | E002 | Total Dissolved Solids | mg/L | 12/09/15 - 08/23/23 | 30 | 0 | CB around T-S line | 468 | 1,620 |
| 45S | UA | E002 | Antimony, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.003 | 0.001 |
| 45S | UA | E002 | Arsenic, total | mg/L | 12/09/15 - 08/28/23 | 24 | 96 | CI around median | 0.001 | 0.001 |
| 45S | UA | E002 | Barium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CB around linear reg | 0.0777 | 0.212 |
| 45S | UA | E002 | Beryllium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.001 | 0.001 |
| 45S | UA | E002 | Boron, total | mg/L | 12/09/15 - 08/28/23 | 27 | 0 | CB around linear reg | 0.214 | 0.163 |
| 45S | UA | E002 | Cadmium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 48 | CB around linear reg | 0.000555 | 0.00230 |
| 45S | UA | E002 | Chloride, total | mg/L | 12/09/15 - 08/28/23 | 27 | 0 | CB around linear reg | 85.8 | 435 |
| 45S | UA | E002 | Chromium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 92 | CB around T-S line | 0.0015 | 0.00100 |
| 45S | UA | E002 | Cobalt, total | mg/L | 12/09/15 - 08/28/23 | 26 | 15 | CI around geomean | 0.00135 | 0.0380 |
| 45S | UA | E002 | Fluoride, total | mg/L | 12/09/15 - 08/28/23 | 27 | 4 | CB around T-S line | 0.25 | 0.120 |
| 45S | UA | E002 | Lead, total | mg/L | 12/09/15 - 08/28/23 | 24 | 88 | CB around T-S line | 0.001 | 0.00150 |
| 45S | UA | E002 | Lithium, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CB around linear reg | 0.0109 | 0.0190 |
| 45S | UA | E002 | Mercury, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.0002 | 0.0002 |
| 45S | UA | E002 | Molybdenum, total | mg/L | 12/09/15 - 08/28/23 | 26 | 0 | CB around linear reg | 0.0427 | 0.00170 |
| 45S | UA | E002 | pH (field) | SU | 12/09/15 - 08/28/23 | 27 | 0 | CI around mean | 7.1/7.2 | 6.6/7.5 |
| 45S | UA | E002 | Radium 226 + Radium 228, total | pCi/L | 12/09/15 - 08/28/23 | 24 | 0 | CI around geomean | 0.508 | 1.50 |
| 45S | UA | E002 | Selenium, total | mg/L | 12/09/15 - 08/28/23 | 25 | 100 | All ND - Last | 0.0025 | 0.00140 |
| 45S | UA | E002 | Sulfate, total | mg/L | 12/09/15 - 08/28/23 | 27 | 0 | CI around median | 70 | 215 |
| 45S | UA | E002 | Thallium, total | mg/L | 12/09/15 - 08/28/23 | 23 | 100 | All ND - Last | 0.002 | 0.001 |
| 45S | UA | E002 | Total Dissolved Solids | mg/L | 12/09/15 - 08/28/23 | 27 | 0 | CI around mean | 523 | 1,620 |

ATTACHMENT C.

COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023

845 QUARTERLY REPORT
HENNEPIN POWER PLANT
ASH POND NO. 2 AND ASH POND NO. 4
HENNEPIN, IL

Notes:

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

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