



Dynegy Midwest Generation, LLC
1500 Eastport Plaza Dr.
Collinsville, IL 62234

January 30, 2025

Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Re: Hennepin East Ash Pond (IEPA ID: W1550100002-05) 2024 Annual Consolidated Report

Dear Mr. LeCrone:

In accordance with 35 IAC § 845.550, Dynegy Midwest Generation, LLC (DMG) is submitting the annual consolidated report for the Hennepin East Ash Pond (IEPA ID: W1550100002-05), as enclosed.

Sincerely,

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

Dianna Tickner
Sr. Director Decommissioning & Demolition

Enclosures

Annual Consolidated Report
Dynergy Midwest Generation, LLC
Hennepin Power Plant
East Ash Pond; W1550100002-05

In accordance with 35 IAC § 845.550, Dynergy Midwest Generation, LLC (DMG) has prepared the annual consolidated report. The report is provided in three sections as follows:

Section 1

1) Annual CCR fugitive dust control report (Section 845.500(c))

Section 2

2) Annual inspection report (Section 845.540(b)), including:

- A) Annual hazard potential classification certification
- B) Annual structural stability assessment certification
- C) Annual safety factor assessment certification
- D) Inflow design flood control system plan certification

Section 3

3) Annual Groundwater Monitoring and Corrective Action Report (Section 845.610(e))

Section 1

Annual CCR Fugitive Dust Control Report

Annual CCR Fugitive Dust Control Report

for

Hennepin Power Plant

Prepared for:



Dynegy Midwest Generation, LLC

**Hennepin Power Plant
13498 East 800th Street
Hennepin, IL 61327**

November 2024

**Hennepin Power Plant
ANNUAL CCR FUGITIVE DUST CONTROL REPORT**

Reporting Year: 4th Quarter 2023 through 3rd Quarter 2024

Completed by: _____

Name

Plant Environmental Supervisor

Title

This Annual CCR Fugitive Dust Control Report has been prepared for the Hennepin Power Plant in accordance with 40 CFR 257.80(c) and 35 I.A.C. 845.500. Section 1 provides a description of the actions taken to control CCR fugitive dust at the facility during the reporting year, including a summary of any corrective measures taken. Section 2 provides a record of citizen complaints received concerning CCR fugitive dust at the facility during the reporting year, including a summary of any corrective measures taken.

Section 1 Actions Taken to Control CCR Fugitive Dust

In accordance with the Hennepin Power Plant CCR Fugitive Dust Control Plan (Plan), the following measures were used to control CCR fugitive dust from becoming airborne at the facility during the reporting year:

CCR Activity	Actions Taken to Control CCR Fugitive Dust
Management of CCR in the facility's CCR units	CCR to be emplaced in the landfill will be conditioned before emplacement.
	Water dry CCR material from periodic cleanout / maintenance of CCR handling or CCR dust control systems as it is added into the CCR surface impoundments, as necessary.
	Wet management of CCR bottom ash in CCR surface impoundments.
	Water areas of exposed CCR in CCR units, as necessary.
	Naturally occurring grass vegetation in areas of exposed CCR in CCR surface impoundments.
	Apply chemical dust suppressant on areas of exposed CCR in CCR units, as necessary.
	Wet sluice CCR fly ash and CCR bottom ash to CCR surface impoundments.

Hennepin Power Plant ANNUAL CCR FUGITIVE DUST CONTROL REPORT

CCR Activity	Actions Taken to Control CCR Fugitive Dust
Handling of CCR at the facility	Pneumatically convey dry CCR fly ash and FGD ash to storage silos in an enclosed system.
	CCR to be emplaced in the landfill will be conditioned before emplacement.
	Load CCR transport trucks from the CCR fly ash silos in a partially enclosed area.
	Load CCR transport trucks from the CCR fly ash silos using vented spouts.
	Load FGD ash transport trucks from the FGD ash silo using a pug mill or vented spouts, as necessary.
	Perform housekeeping, as necessary, in the fly ash loading area.
	Operate fly ash handling system in accordance with good operating practices.
	Maintain and repair as necessary dust controls on the fly ash handling system.
Transportation of CCR at the facility	CCR to be emplaced in the landfill is conditioned before emplacement.
	Limit the speed of vehicles to no more than 15 mph on facility roads.
	Sweep or rinse off the outside of the trucks transporting CCR, as necessary.
	Remove CCR, as necessary, deposited on facility road surfaces during transport.

Based on a review of the Plan and inspections associated with CCR fugitive dust control performed in the reporting year, the control measures identified in the Plan as implemented at the facility effectively minimized CCR from becoming airborne at the facility. No revisions or additions to control measures identified in the Plan were needed in this report. The Hennepin Power Plant ceased to operate and ceased to be a generating unit effective November 1, 2019.

No material changes occurred in the reporting year in site conditions potentially resulting in CCR fugitive dust becoming airborne at the facility that warrant an amendment of the Plan. The plan was amended to reflect administrative changes and adjustments to site condition controls.

Section 2 Record of Citizen Complaints

No citizen complaints were received regarding CCR fugitive dust at Hennepin Power Plant in the reporting year.

Section 2

Annual inspection report (Section 845.540(b)), including:

- A) Annual hazard potential classification certification, if applicable (Section 845.440)
- B) Annual structural stability assessment certification, if applicable (Section 845.450)
- C) Annual safety factor assessment certification, if applicable (Section 845.460)
- D) Inflow design flood control system plan certification (Section 845.510(c))

ANNUAL INSPECTION BY A QUALIFIED PROFESSIONAL ENGINEER

35 IAC § 845.540

(b)(1) The CCR surface impoundment must be inspected on an annual basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR surface impoundment is consistent with recognized and generally accepted engineering standards. The inspection must, at a minimum, include:

A) A review of available information regarding the status and condition of the CCR surface impoundment, including files available in the operating record (e.g., CCR surface impoundment design and construction information required by Sections 845.220(a)(1) and 845.230(d)(2)(A), previous structural stability assessments required under Section 845.450, the results of inspections by a qualified person, and results of previous annual inspections);

B) A visual inspection of the CCR surface impoundment to identify signs of distress or malfunction of the CCR surface impoundment and appurtenant structures;

C) A visual inspection of any hydraulic structures underlying the base of the CCR surface impoundment or passing through the dike of the CCR surface impoundment for structural integrity and continued safe and reliable operation;

D) The annual hazard potential classification certification, if applicable (see Section 845.440);

E) The annual structural stability assessment certification, if applicable (see Section 845.450);

F) The annual safety factor assessment certification, if applicable (see Section 845.460); and

G) The inflow design flood control system plan certification (see Section 845.510(c)).

SITE INFORMATION

Site Name / Address / Date of Inspection	Hennepin Power Station Putnam County, Illinois 62327 10/1/2024
Operator Name / Address	Luminant Generation Company LLC 6555 Sierra Drive, Irving, TX 75039
CCR unit	East Ash Pond

INSPECTION REPORT 35 IAC § 845.540

(b)(1)(D) The annual hazard potential classification certification, if applicable (see Section 845.440).	Based on a review of the CCR unit's annual hazard potential classification, the unit is classified as a Class II CCR surface impoundment.
(b)(2)(A) Any changes in geometry of the structure since the previous annual inspection.	Based on a review of the CCR unit's records and visual observation during the on-site inspection, no changes in geometry of the structure have taken place since the previous annual inspection.
(b)(2)(B) The location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection	See the attached.
b)(2)(C) The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection;	See the attached.
b)(2)(D) The storage capacity of the impounding structure at the time of the inspection	Approximately 800 acre-feet
(b)(2)(E) The approximate volume of the impounded water and CCR contained in the unit at the time of the inspection.	Approximately 350 acre-feet
(b)(2)(F) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit	Based on a review of the CCR unit's records and visual observation during the on-site inspection, there was no appearance of an actual or potential structural weakness of the CCR unit, nor an existing condition that is disrupting or would disrupt the operation and safety of the unit.

INSPECTION REPORT 35 IAC § 845.540

(b)(2)(G) Any other changes that may have affected the stability or operation of the impounding structure since the previous annual inspection.	Based on a review of the CCR unit's records and visual observation during the on-site inspection, no other changes which may have affected the stability or operation of the CCR unit have taken place since the previous annual inspection.
(b)(1)(G) The inflow design flood control system plan certification (see Section 845.510(c))	Based on a review of the CCR unit's records, the CCR unit is designed, operated, and maintained to adequately manage the flow from the CCR impoundment and control the peak discharge from the inflow design flood.

35 IAC § 845.540 - Annual inspection by a qualified professional engineer.

I, James Knutelski, P.E., certify under penalty of law that the information submitted in this report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Illinois. The information submitted, is to the best of my knowledge and belief, true, accurate and complete. Based on the annual inspection, the design, construction, operation, and maintenance of the CCR Unit is consistent with recognized and generally accepted good engineering standards. Based on a review of the records for the CCR unit and a visual inspection of the unit to document no material changes to the unit, the hazard potential classification was conducted in accordance with the requirements of Section 845.440, the structural stability assessment was conducted in accordance with the requirements of Section 845.450, the safety factor assessment was conducted in accordance with the requirements of Section 845.460, and the inflow design flood control system plan assessment was conducted in accordance with the requirements of Section 845.510.



James Knutelski, PE

Illinois PE No. 062-054206, Expires: 11/30/2025

Date: 12/13/2024

Site Name: Hennepin Power Station

CCR Unit: East Ash Pond

35 IAC § 845.540 (b)(2)(B)		
Instrument ID #	Type	Maximum recorded reading since previous annual inspection (ft)
P006	Piezometer	452.01'
P007	Piezometer	446.82'

35 IAC § 845.540 (b)(2)(C)						
	Approximate Depth / Elevation					
Since previous inspection:	Elevation (ft)			Depth (ft)		
	Minimum	Present	Maximum	Minimum	Present	Maximum
Impounded Water		479.5			5	
CCR	479		505	23		49

Section 3

Annual Groundwater Monitoring and Corrective Action Report (Section 845.610(e))

Prepared for
Dynegy Midwest Generation, LLC

Date
January 31, 2025

Project No.
1940106781-008

**2024 35 I.A.C. § 845 ANNUAL
GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
EAST ASH POND
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS
IEPA ID NO. W1550100002-05**

2024 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT HENNEPIN POWER PLANT EAST ASH POND

Project name **Hennepin Power Plant East Ash Pond**
Project no. **1940106781-008**
Recipient **Dynegy Midwest Generation, LLC**
Document type **Annual Groundwater Monitoring and Corrective Action Report**
Version **FINAL**
Date **January 31, 2025**
Prepared by **Jeff R. Kampman**
Checked by **Lauren D. Cook**
Approved by **Brian G. Hennings**
Description **Annual Report Required by 35 I.A.C. § 845**

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA

T 414-837-3607
F 414-837-3608
<https://ramboll.com>



Jeff R. Kampman
Senior Project Scientist



Brian G. Hennings, PG
Project Officer, Hydrogeology

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Table A	35 I.A.C. § 845 Monitoring Program Summary for 2024
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TABLES (ATTACHED)

Table 1	Field Parameters and Analytical Results – Quarter 1, 2024 Field Parameters and Analytical Results – Quarter 2, 2024 Field Parameters and Analytical Results – Quarter 3, 2024 Field Parameters and Analytical Results – Quarter 4, 2024
Table 2	Evaluation of Compliance – Quarter 1, 2024 Evaluation of Compliance – Quarter 2, 2024 Evaluation of Compliance – Quarter 3, 2024 Evaluation of Compliance – Quarter 4, 2024

FIGURES

Figure 1	Monitoring Well Location Map
Figure 2	GWPS Exceedance Map Uppermost Aquifer, Quarter 4, 2023 – Quarter 4, 2024
Figure 3	Potentiometric Surface Map, January 22-23, 2024
Figure 4	Potentiometric Surface Map, February 15, 2024
Figure 5	Potentiometric Surface Map, March 15, 2024
Figure 6	Potentiometric Surface Map, April 15-16, 2024
Figure 7	Potentiometric Surface Map, May 15, 2024
Figure 8	Potentiometric Surface Map, June 15, 2024
Figure 9	Potentiometric Surface Map, July 15, 2024
Figure 10	Potentiometric Surface Map, August 7, 2024
Figure 11	Potentiometric Surface Map, September 7, 2024
Figure 12	Potentiometric Surface Map, October 7, 2024
Figure 13	Potentiometric Surface Map, November 19, 2024
Figure 14	Potentiometric Surface Map, December 18-19, 2024

ATTACHMENTS

- Attachment A Groundwater Elevation Data
- Attachment B
 - Comparison to Background – Quarter 1, 2024
 - Comparison to Background – Quarter 2, 2024
 - Comparison to Background – Quarter 3, 2024
 - Comparison to Background – Quarter 4, 2024

ACRONYMS AND ABBREVIATIONS

35 I.A.C.	Title 35 of the Illinois Administrative Code
CCA	compliance commitment agreement
CCR	coal combustion residuals
CMA	assessment of corrective measures
DMG	Dynegy Midwest Generation, LLC
E003	Quarter 4, 2023 sampling event
E004	Quarter 1, 2024 sampling event
E005	Quarter 2, 2024 sampling event
E006	Quarter 3, 2024 sampling event
E007	Quarter 4, 2024 sampling event
EAP	East Ash Pond
GWPS	groundwater protection standard
HPP	Hennepin Power Plant
ID	identification
IEPA	Illinois Environmental Protection Agency
NID	National Inventory of Dams
No.	number
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SI	surface impoundment
SSI	statistically significant increase

EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(e) (*Annual Groundwater Monitoring and Corrective Action Report*) for the East Ash Pond (EAP) located at Hennepin Power Plant (HPP) near Hennepin, Illinois. The EAP is recognized by coal combustion residuals (CCR) unit identification (ID) number (No.) 803, Illinois Environmental Protection Agency (IEPA) ID No. W1550100002-05, and National Inventory of Dams (NID) No. IL50363.

As required by 35 I.A.C. § 845, an operating permit application for the EAP was submitted by Dynegy Midwest Generation, LLC (DMG) to IEPA by October 31, 2021 in accordance with the requirements specified in 35 I.A.C. § 845.230(d) and is pending approval. DMG entered into a compliance commitment agreement (CCA) with IEPA on December 28, 2022. As specified in the CCA, groundwater monitoring in accordance with the proposed groundwater monitoring plan and sampling methodologies provided in the operating permit application for the EAP commenced in the second quarter of 2023 and quarterly groundwater sampling was conducted in 2024 in accordance with 35 I.A.C. § 845.650. All available groundwater monitoring data collected in 2024 is summarized in **Table 1** (field parameters and analytical results) and **Attachment A** (groundwater elevation data). After the EAP has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit.

In accordance with 35 I.A.C. § 845.610(b)(3)(C) and the statistical analysis plan submitted with the operating permit application (Appendix A of the Groundwater Monitoring Plan [Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021]), constituent concentrations observed at compliance monitoring wells were evaluated for compliance with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances¹ of the GWPS (**Table 2**). No GWPS exceedances were determined, therefore an assessment of corrective measures (CMA) has not been initiated for the EAP.

In accordance with 35 I.A.C. § 845.610(b)(3)(B), constituent concentrations observed at compliance monitoring wells were also evaluated quarterly for exceedances over statistical background levels (**Attachment B**).

¹ Throughout this document, “exceedance” or “exceedances” is intended to refer only to potential exceedances of proposed applicable background statistics or GWPSs as described in the proposed groundwater monitoring program, which was submitted to the IEPA on October 25, 2021 as part of DMG’s operating permit application for the HPP EAP. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, DMG has not identified any actual exceedances.

1. INTRODUCTION

This report has been prepared by Ramboll on behalf of DMG, to provide the information required by 35 I.A.C. § 845.610(e) for the EAP located at HPP near Hennepin, Illinois. The owner or operator of a CCR surface impoundment (SI) must prepare and submit to IEPA by January 31st of each year an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year as part of the Annual Consolidated Report required by 35 I.A.C. § 845.550. The Annual Groundwater Monitoring and Corrective Action Report shall document the status of the groundwater monitoring and corrective action plan for the CCR SI (**Section 2**), summarize key actions completed, including the status of permit applications and Agency approvals (**Section 3**), describe any problems encountered and actions to resolve the problems (**Section 4**), and project key activities for the upcoming year (**Section 5**).

At a minimum, the annual report must contain the following information, to the extent available:

- A. A map, aerial image, or diagram showing the CCR SI and all background (or upgradient) and [downgradient] compliance monitoring wells, including the well identification numbers, that are part of the groundwater monitoring program for the CCR SI (**Figure 1**), and a visual delineation of any exceedances of the [groundwater protection standard] GWPS (**Figure 2**).
- B. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken (**Section 3**, paragraph 1).
- C. A potentiometric surface map for each groundwater elevation sampling event required by 35 I.A.C. § 845.650(b)(2) (**Figures 3 through 14**).
- D. In addition to all the monitoring data obtained under 35 I.A.C. §§ 845.600-680, a summary including the number of groundwater samples that were collected for analysis for each background and [downgradient] compliance well, and the dates the samples were collected (**Section 3.1** and **Table A**).
- E. A narrative discussion of any statistically significant increases (SSIs) over background levels for the constituents listed in 35 I.A.C. § 845.600 (**Section 3.3** and **Attachment B**).
- F. Other information required to be included in the annual report as specified in 35 I.A.C. §§ 845.600-680.

A section at the beginning of the annual report must provide an overview of the current status of the groundwater monitoring program and corrective action plan for the CCR SI (see **Executive Summary**). At a minimum, the summary must:

- A. Specify whether groundwater monitoring data shows an SSI over background concentrations for one or more constituents listed in 35 I.A.C. § 845.600.
- B. Identify those constituents having an SSI over background concentrations and the names of the monitoring wells associated with the SSI(s).
- C. Specify whether there have been any exceedances of the GWPS for one or more constituents listed in 35 I.A.C. § 845.600.

- D. Identify those constituents with exceedances of the GWPS in 35 I.A.C. § 845.600 and the names of the monitoring wells associated with the exceedance.
- E. Provide the date when the assessment of corrective measures was initiated for the CCR SI.
- F. Provide the date when the assessment of corrective measures was completed for the CCR SI.
- G. Specify whether a remedy was selected under 35 I.A.C. § 845.670 during the current annual reporting period, and if so, the date of remedy selection.
- H. Specify whether remedial activities were initiated or are ongoing under 35 I.A.C. § 845.780 during the current annual reporting period.

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

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

An operating permit application for the EAP was submitted by DMG to IEPA by October 31, 2021 in accordance with the requirements specified in 35 I.A.C. § 845.230(d) and is pending approval. DMG entered into a CCA with IEPA on December 28, 2022. As specified in the CCA, groundwater monitoring in accordance with the proposed groundwater monitoring plan and sampling methodologies provided in the operating permit application for the EAP commenced in the second quarter of 2023. After the EAP has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit. As specified in the CCA, groundwater sampling requirements that apply to the CCR SI under other existing permit programs will become void upon issuance of an approved operating permit pursuant to 35 I.A.C § 845.

A construction permit application for closure of the EAP was also submitted by DMG to IEPA on January 28, 2022 in accordance with the requirements specified in 35 I.A.C. § 845.220(a) and (d) and is pending approval.

As noted in the **Executive Summary** and **Section 3.2**, no GWPS exceedances were determined for the EAP in 2024 (**Figure 2**).

3. KEY ACTIONS COMPLETED IN 2024

The proposed 35 I.A.C. § 845 monitoring system is presented in **Figure 1**. No wells were installed or decommissioned in 2024.

Monthly groundwater level elevations were collected in 2024 as required by 35 I.A.C. § 845.650(b)(2). **Attachment A** summarizes the groundwater elevation data collected in 2024². Potentiometric surfaces for January through December 2024 are included in **Figures 3 through 14**.

A summary of the samples collected in 2024 is included in **Section 3.1**. Narrative discussions of exceedances of GWPSs and background are included in **Section 3.2** and **Section 3.3**, respectively. Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan provided in the operating permit application (Ramboll, 2021).

3.1 Sample and Analysis Summary

One groundwater sample was collected from each background and compliance well during each quarterly monitoring event in 2024. All samples were collected and analyzed in accordance with the Groundwater Monitoring Plan provided in the operating permit application (Ramboll, 2021). A summary of the samples collected from background and compliance monitoring wells in 2024 is included in **Table A** on the following page. **Table 1** is a summary of the field parameters and analytical results from the 2024 sampling events. Laboratory analytical reports and field data sheets are attached to the quarterly Groundwater Monitoring Data and Detected Exceedances Reports for Quarters 1 through 4 (Ramboll, 2024a; Ramboll, 2024b; Ramboll, 2024c; Ramboll, 2025); therefore, these reports are not attached to this annual report to avoid reproduction of lengthy data transmittals that have been previously provided in hardcopy.

² During the October 2024 sampling event, groundwater elevation data at monitoring well 12 was not recorded because the water level was below the top of the pump.

Table A. 35 I.A.C. § 845 Monitoring Program Summary for 2024

Event ID	Sampling Dates ^{1, 2, 3}	Analytical Data Receipt Date	Exceedance Determination Date	ASD Completion Date	Required CMA Initiation Date
E003	November 17 and 20, 2023	January 4, 2024	March 4, 2024 ⁴	NA	NA
E004	January 24 - 26, 2024	February 22, 2024	April 22, 2024	NA	NA
E005	April 15 - 16, 2024	May 20, 2024	July 19, 2024	NA	NA
E006	July 15 - 16, and August 6, 2024	September 6, 2024	November 5, 2024	NA	NA
E007 ⁵	October 7 - 10, 2024	November 11, 2024	January 10, 2025	NA	NA

Notes:

ASD: Alternative Source Demonstration

NA: not applicable

¹ All samples were analyzed for the parameters listed in 35 I.A.C. § 845.600, calcium, and turbidity.

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

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

⁴ Statistical determinations were completed in 2024 and are included in the 2024 Annual Groundwater Monitoring and Corrective Action Report for completeness. Analytical data from 2023 sampling events used in statistical determinations are included in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

3.2 Exceedances of GWPS

In accordance with 35 I.A.C. § 845.610(b)(3)(C), the constituent concentrations observed at compliance monitoring wells identified as Statistical Results in **Table 2** were compared with the GWPSs described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS. No exceedances of the GWPSs were determined as shown on **Figure 2**.

3.3 Exceedances of Background

In accordance with 35 I.A.C. § 845.610(b)(3)(B), constituent concentrations observed at compliance monitoring wells were also evaluated quarterly for exceedances over statistical background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment B** shows the constituent concentrations compared to statistical background levels.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

Quarterly groundwater monitoring was completed in 2024. Groundwater samples were collected and analyzed in accordance with the Groundwater Monitoring Plan provided in the operating permit application (Ramboll, 2021) and all data were accepted. After the EAP has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit.

5. KEY ACTIVITIES PLANNED FOR 2025

The following key activities are planned for 2025:

- Continuation of groundwater monitoring in accordance with the proposed groundwater monitoring plan and sampling methodologies provided in the operating permit application for the EAP. After the EAP has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit. Groundwater monitoring will include:
 - Monthly groundwater elevations
 - Quarterly groundwater sampling
- Complete evaluation of analytical data from the compliance wells to determine whether exceedances above GWPSs have occurred.
- If a GWPS exceedance is identified, potential alternative sources (*i.e.*, a source other than the CCR unit caused the GWPS exceedance or that the exceedance resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
 - If an alternative source is identified to be the cause of the GWPS exceedance, a written demonstration will be completed within 60 days of determination and included in the 2025 Annual Groundwater Monitoring and Corrective Action Report.
 - If an alternative source(s) is not identified to be the cause of the GWPS exceedance, the applicable requirements of 35 I.A.C. § 845.660 will be met.

6. REFERENCES

Illinois Administrative Code, Title 35, Subtitle G, Chapter I, Subchapter J, *Part 845: Standards for The Disposal Of Coal Combustion Residuals In Surface Impoundments*, effective April 21, 2021.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan*. Hennepin Power Plant, East Ash Pond, Hennepin, Illinois. Dynegy Midwest Generation, LLC. October 25, 2021.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2024a. 35 I.A.C. § 845.610(B)(3)(D) Groundwater Monitoring Data and Detected Exceedances, 2024 Quarter 1, East Ash Pond, Hennepin Power Plant, Hennepin, Illinois. April 22, 2024.
<https://www.luminant.com/documents/ccr/il-ccr/Hennepin/2024/2024-Hen%20EAP%202024%201st%20qtr%2035%20IAC%20845%20GW%20report-Hennepin-East%20Ash%20Pond-W1550100002%E2%80%90005.pdf>

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2024b. 35 I.A.C. § 845.610(B)(3)(D) Groundwater Monitoring Data and Detected Exceedances, 2024 Quarter 2, East Ash Pond, Hennepin Power Plant, Hennepin, Illinois. July 19, 2024.
<https://www.luminant.com/documents/ccr/il-ccr/Hennepin/2024/2024-Hen%20EAP%202024%202nd%20qtr%2035%20IAC%20845%20GW%20report-Hennepin-East%20Ash%20Pond-W1550100002%E2%80%90005.pdf>

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2024c. 35 I.A.C. § 845.610(B)(3)(D) Groundwater Monitoring Data and Detected Exceedances, 2024 Quarter 3, East Ash Pond, Hennepin Power Plant, Hennepin, Illinois. November 5, 2024.
<https://www.luminant.com/documents/ccr/il-ccr/Hennepin/2024/2024-Hen%20EAP%202024%203rd%20qtr%2035%20IAC%20845%20GW%20report-Hennepin-East%20Ash%20Pond-W1550100002%E2%80%90005.pdf>

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2025. 35 I.A.C. § 845.610(B)(3)(D) Groundwater Monitoring Data and Detected Exceedances, 2024 Quarter 4, East Ash Pond, Hennepin Power Plant, Hennepin, Illinois. January 10, 2025.
<https://www.luminant.com/documents/ccr/il-ccr/Hennepin/2024/2024-Hen%20EAP%202024%204th%20qtr%2035%20IAC%20845%20GW%20report-Hennepin-East%20Ash%20Pond%20No.%204-W1550100002%E2%80%90007.pdf>

TABLES

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
07	Background	E004	01/26/2024	Antimony, total	0.0013 U	mg/L
07	Background	E004	01/26/2024	Arsenic, total	0.00023 U	mg/L
07	Background	E004	01/26/2024	Barium, total	0.100	mg/L
07	Background	E004	01/26/2024	Beryllium, total	0.00053 U	mg/L
07	Background	E004	01/26/2024	Boron, total	0.120	mg/L
07	Background	E004	01/26/2024	Cadmium, total	0.00017 U	mg/L
07	Background	E004	01/26/2024	Calcium, total	120	mg/L
07	Background	E004	01/26/2024	Chloride, total	56.0	mg/L
07	Background	E004	01/26/2024	Chromium, total	0.0011 U	mg/L
07	Background	E004	01/26/2024	Cobalt, total	0.00750	mg/L
07	Background	E004	01/26/2024	Dissolved Oxygen	4.30	mg/L
07	Background	E004	01/26/2024	Fluoride, total	0.120	mg/L
07	Background	E004	01/26/2024	Lead, total	0.00019 U	mg/L
07	Background	E004	01/26/2024	Lithium, total	0.00520	mg/L
07	Background	E004	01/26/2024	Mercury, total	0.000079 U	mg/L
07	Background	E004	01/26/2024	Molybdenum, total	0.0025 U	mg/L
07	Background	E004	01/26/2024	Oxidation Reduction Potential	143	mV
07	Background	E004	01/26/2024	pH (field)	7.0	SU
07	Background	E004	01/26/2024	Radium 226 + Radium 228, total	0.947	pCi/L
07	Background	E004	01/26/2024	Selenium, total	0.00098 U	mg/L
07	Background	E004	01/26/2024	Specific Conductance @ 25C (field)	1,026	micromhos/cm
07	Background	E004	01/26/2024	Sulfate, total	59.0	mg/L
07	Background	E004	01/26/2024	Temperature	10.0	degrees C
07	Background	E004	01/26/2024	Thallium, total	0.00057 U	mg/L
07	Background	E004	01/26/2024	Total Dissolved Solids	650	mg/L
07	Background	E004	01/26/2024	Turbidity, field	5.90	NTU
08	Background	E004	01/26/2024	Antimony, total	0.0013 U	mg/L
08	Background	E004	01/26/2024	Arsenic, total	0.00023 U	mg/L
08	Background	E004	01/26/2024	Barium, total	0.120	mg/L
08	Background	E004	01/26/2024	Beryllium, total	0.00053 U	mg/L
08	Background	E004	01/26/2024	Boron, total	0.150	mg/L
08	Background	E004	01/26/2024	Cadmium, total	0.00049 J	mg/L
08	Background	E004	01/26/2024	Calcium, total	200	mg/L
08	Background	E004	01/26/2024	Chloride, total	250	mg/L
08	Background	E004	01/26/2024	Chromium, total	0.0011 U	mg/L
08	Background	E004	01/26/2024	Cobalt, total	0.00430	mg/L
08	Background	E004	01/26/2024	Dissolved Oxygen	0.530	mg/L
08	Background	E004	01/26/2024	Fluoride, total	0.083 J	mg/L
08	Background	E004	01/26/2024	Lead, total	0.00031 J	mg/L
08	Background	E004	01/26/2024	Lithium, total	0.0130	mg/L
08	Background	E004	01/26/2024	Mercury, total	0.000079 U	mg/L
08	Background	E004	01/26/2024	Molybdenum, total	0.0025 U	mg/L
08	Background	E004	01/26/2024	Oxidation Reduction Potential	101	mV
08	Background	E004	01/26/2024	pH (field)	6.8	SU
08	Background	E004	01/26/2024	Radium 226 + Radium 228, total	1.41	pCi/L
08	Background	E004	01/26/2024	Selenium, total	0.00098 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
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HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
08	Background	E004	01/26/2024	Specific Conductance @ 25C (field)	1,839	micromhos/cm
08	Background	E004	01/26/2024	Sulfate, total	120	mg/L
08	Background	E004	01/26/2024	Temperature	12.3	degrees C
08	Background	E004	01/26/2024	Thallium, total	0.00057 U	mg/L
08	Background	E004	01/26/2024	Total Dissolved Solids	1,200	mg/L
08	Background	E004	01/26/2024	Turbidity, field	0.970	NTU
08D	Background	E004	01/25/2024	Antimony, total	0.0013 U	mg/L
08D	Background	E004	01/25/2024	Arsenic, total	0.00033 J	mg/L
08D	Background	E004	01/25/2024	Barium, total	0.140	mg/L
08D	Background	E004	01/25/2024	Beryllium, total	0.00053 U	mg/L
08D	Background	E004	01/25/2024	Boron, total	0.120	mg/L
08D	Background	E004	01/25/2024	Cadmium, total	0.000930	mg/L
08D	Background	E004	01/25/2024	Calcium, total	220	mg/L
08D	Background	E004	01/25/2024	Chloride, total	330	mg/L
08D	Background	E004	01/25/2024	Chromium, total	0.0011 U	mg/L
08D	Background	E004	01/25/2024	Cobalt, total	0.00460	mg/L
08D	Background	E004	01/25/2024	Dissolved Oxygen	0.500	mg/L
08D	Background	E004	01/25/2024	Fluoride, total	0.09 J	mg/L
08D	Background	E004	01/25/2024	Lead, total	0.000710	mg/L
08D	Background	E004	01/25/2024	Lithium, total	0.0140	mg/L
08D	Background	E004	01/25/2024	Mercury, total	0.000079 U	mg/L
08D	Background	E004	01/25/2024	Molybdenum, total	0.0025 U	mg/L
08D	Background	E004	01/25/2024	Oxidation Reduction Potential	86.7	mV
08D	Background	E004	01/25/2024	pH (field)	6.7	SU
08D	Background	E004	01/25/2024	Radium 226 + Radium 228, total	0.389	pCi/L
08D	Background	E004	01/25/2024	Selenium, total	0.00098 U	mg/L
08D	Background	E004	01/25/2024	Specific Conductance @ 25C (field)	2,389	micromhos/cm
08D	Background	E004	01/25/2024	Sulfate, total	170	mg/L
08D	Background	E004	01/25/2024	Temperature	12.5	degrees C
08D	Background	E004	01/25/2024	Thallium, total	0.00057 U	mg/L
08D	Background	E004	01/25/2024	Total Dissolved Solids	1,500	mg/L
08D	Background	E004	01/25/2024	Turbidity, field	4.40	NTU
16	Background	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
16	Background	E004	01/24/2024	Arsenic, total	0.00041 J	mg/L
16	Background	E004	01/24/2024	Barium, total	0.0740	mg/L
16	Background	E004	01/24/2024	Beryllium, total	0.00053 U	mg/L
16	Background	E004	01/24/2024	Boron, total	0.240	mg/L
16	Background	E004	01/24/2024	Cadmium, total	0.00017 U	mg/L
16	Background	E004	01/24/2024	Calcium, total	81.0	mg/L
16	Background	E004	01/24/2024	Chloride, total	89.0	mg/L
16	Background	E004	01/24/2024	Chromium, total	0.0011 U	mg/L
16	Background	E004	01/24/2024	Cobalt, total	0.0004 U	mg/L
16	Background	E004	01/24/2024	Dissolved Oxygen	0.480	mg/L
16	Background	E004	01/24/2024	Fluoride, total	0.230	mg/L
16	Background	E004	01/24/2024	Lead, total	0.00019 U	mg/L
16	Background	E004	01/24/2024	Lithium, total	0.0048 J	mg/L

TABLE 1.
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HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
16	Background	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
16	Background	E004	01/24/2024	Molybdenum, total	0.00700	mg/L
16	Background	E004	01/24/2024	Oxidation Reduction Potential	-4.20	mV
16	Background	E004	01/24/2024	pH (field)	7.3	SU
16	Background	E004	01/24/2024	Radium 226 + Radium 228, total	0.198	pCi/L
16	Background	E004	01/24/2024	Selenium, total	0.00098 U	mg/L
16	Background	E004	01/24/2024	Specific Conductance @ 25C (field)	814	micromhos/cm
16	Background	E004	01/24/2024	Sulfate, total	76.0	mg/L
16	Background	E004	01/24/2024	Temperature	16.0	degrees C
16	Background	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
16	Background	E004	01/24/2024	Total Dissolved Solids	500	mg/L
16	Background	E004	01/24/2024	Turbidity, field	3.64	NTU
17	Background	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
17	Background	E004	01/24/2024	Arsenic, total	0.00046 J	mg/L
17	Background	E004	01/24/2024	Barium, total	0.140	mg/L
17	Background	E004	01/24/2024	Beryllium, total	0.00053 U	mg/L
17	Background	E004	01/24/2024	Boron, total	0.140	mg/L
17	Background	E004	01/24/2024	Cadmium, total	0.00017 U	mg/L
17	Background	E004	01/24/2024	Calcium, total	120	mg/L
17	Background	E004	01/24/2024	Chloride, total	93.0	mg/L
17	Background	E004	01/24/2024	Chromium, total	0.0011 U	mg/L
17	Background	E004	01/24/2024	Cobalt, total	0.0004 U	mg/L
17	Background	E004	01/24/2024	Dissolved Oxygen	3.32	mg/L
17	Background	E004	01/24/2024	Fluoride, total	0.150	mg/L
17	Background	E004	01/24/2024	Lead, total	0.00019 U	mg/L
17	Background	E004	01/24/2024	Lithium, total	0.00550	mg/L
17	Background	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
17	Background	E004	01/24/2024	Molybdenum, total	0.0029 J	mg/L
17	Background	E004	01/24/2024	Oxidation Reduction Potential	143	mV
17	Background	E004	01/24/2024	pH (field)	7.0	SU
17	Background	E004	01/24/2024	Radium 226 + Radium 228, total	0.544	pCi/L
17	Background	E004	01/24/2024	Selenium, total	0.00098 U	mg/L
17	Background	E004	01/24/2024	Specific Conductance @ 25C (field)	1,110	micromhos/cm
17	Background	E004	01/24/2024	Sulfate, total	65.0	mg/L
17	Background	E004	01/24/2024	Temperature	14.1	degrees C
17	Background	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
17	Background	E004	01/24/2024	Total Dissolved Solids	670	mg/L
17	Background	E004	01/24/2024	Turbidity, field	2.49	NTU
12	Compliance	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
12	Compliance	E004	01/24/2024	Arsenic, total	0.00049 J	mg/L
12	Compliance	E004	01/24/2024	Barium, total	0.0620	mg/L
12	Compliance	E004	01/24/2024	Beryllium, total	0.00053 U	mg/L
12	Compliance	E004	01/24/2024	Boron, total	0.160	mg/L
12	Compliance	E004	01/24/2024	Cadmium, total	0.00017 U	mg/L
12	Compliance	E004	01/24/2024	Calcium, total	79.0	mg/L
12	Compliance	E004	01/24/2024	Chloride, total	80.0	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
12	Compliance	E004	01/24/2024	Chromium, total	0.0012 J	mg/L
12	Compliance	E004	01/24/2024	Cobalt, total	0.0004 U	mg/L
12	Compliance	E004	01/24/2024	Dissolved Oxygen	3.16	mg/L
12	Compliance	E004	01/24/2024	Fluoride, total	0.210	mg/L
12	Compliance	E004	01/24/2024	Lead, total	0.00019 U	mg/L
12	Compliance	E004	01/24/2024	Lithium, total	0.00950	mg/L
12	Compliance	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
12	Compliance	E004	01/24/2024	Molybdenum, total	0.0150	mg/L
12	Compliance	E004	01/24/2024	Oxidation Reduction Potential	52.5	mV
12	Compliance	E004	01/24/2024	pH (field)	7.4	SU
12	Compliance	E004	01/24/2024	Radium 226 + Radium 228, total	0.313	pCi/L
12	Compliance	E004	01/24/2024	Selenium, total	0.00098 U	mg/L
12	Compliance	E004	01/24/2024	Specific Conductance @ 25C (field)	797	micromhos/cm
12	Compliance	E004	01/24/2024	Sulfate, total	69.0	mg/L
12	Compliance	E004	01/24/2024	Temperature	15.4	degrees C
12	Compliance	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
12	Compliance	E004	01/24/2024	Total Dissolved Solids	490	mg/L
12	Compliance	E004	01/24/2024	Turbidity, field	1.46	NTU
13	Compliance	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
13	Compliance	E004	01/24/2024	Arsenic, total	0.00073 J	mg/L
13	Compliance	E004	01/24/2024	Barium, total	0.0490	mg/L
13	Compliance	E004	01/24/2024	Beryllium, total	0.00053 U	mg/L
13	Compliance	E004	01/24/2024	Boron, total	0.600	mg/L
13	Compliance	E004	01/24/2024	Cadmium, total	0.00017 U	mg/L
13	Compliance	E004	01/24/2024	Calcium, total	81.0	mg/L
13	Compliance	E004	01/24/2024	Chloride, total	81.0	mg/L
13	Compliance	E004	01/24/2024	Chromium, total	0.0014 J	mg/L
13	Compliance	E004	01/24/2024	Cobalt, total	0.0004 U	mg/L
13	Compliance	E004	01/24/2024	Dissolved Oxygen	0.890	mg/L
13	Compliance	E004	01/24/2024	Fluoride, total	0.200	mg/L
13	Compliance	E004	01/24/2024	Lead, total	0.00019 U	mg/L
13	Compliance	E004	01/24/2024	Lithium, total	0.0120	mg/L
13	Compliance	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
13	Compliance	E004	01/24/2024	Molybdenum, total	0.0140	mg/L
13	Compliance	E004	01/24/2024	Oxidation Reduction Potential	37.2	mV
13	Compliance	E004	01/24/2024	pH (field)	7.5	SU
13	Compliance	E004	01/24/2024	Radium 226 + Radium 228, total	0.678	pCi/L
13	Compliance	E004	01/24/2024	Selenium, total	0.0019 J	mg/L
13	Compliance	E004	01/24/2024	Specific Conductance @ 25C (field)	838	micromhos/cm
13	Compliance	E004	01/24/2024	Sulfate, total	100	mg/L
13	Compliance	E004	01/24/2024	Temperature	14.3	degrees C
13	Compliance	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
13	Compliance	E004	01/24/2024	Total Dissolved Solids	530	mg/L
13	Compliance	E004	01/24/2024	Turbidity, field	0.990	NTU
46	Compliance	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
46	Compliance	E004	01/24/2024	Arsenic, total	0.00055 J	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
46	Compliance	E004	01/24/2024	Barium, total	0.0710	mg/L
46	Compliance	E004	01/24/2024	Beryllium, total	0.00053 U	mg/L
46	Compliance	E004	01/24/2024	Boron, total	0.360	mg/L
46	Compliance	E004	01/24/2024	Cadmium, total	0.00017 U	mg/L
46	Compliance	E004	01/24/2024	Calcium, total	79.0	mg/L
46	Compliance	E004	01/24/2024	Chloride, total	81.0	mg/L
46	Compliance	E004	01/24/2024	Chromium, total	0.0013 J	mg/L
46	Compliance	E004	01/24/2024	Cobalt, total	0.0004 U	mg/L
46	Compliance	E004	01/24/2024	Dissolved Oxygen	2.27	mg/L
46	Compliance	E004	01/24/2024	Fluoride, total	0.220	mg/L
46	Compliance	E004	01/24/2024	Lead, total	0.00019 U	mg/L
46	Compliance	E004	01/24/2024	Lithium, total	0.00620	mg/L
46	Compliance	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
46	Compliance	E004	01/24/2024	Molybdenum, total	0.0180	mg/L
46	Compliance	E004	01/24/2024	Oxidation Reduction Potential	118	mV
46	Compliance	E004	01/24/2024	pH (field)	7.3	SU
46	Compliance	E004	01/24/2024	Radium 226 + Radium 228, total	0.62	pCi/L
46	Compliance	E004	01/24/2024	Selenium, total	0.0013 J	mg/L
46	Compliance	E004	01/24/2024	Specific Conductance @ 25C (field)	848	micromhos/cm
46	Compliance	E004	01/24/2024	Sulfate, total	72.0	mg/L
46	Compliance	E004	01/24/2024	Temperature	14.6	degrees C
46	Compliance	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
46	Compliance	E004	01/24/2024	Total Dissolved Solids	520	mg/L
46	Compliance	E004	01/24/2024	Turbidity, field	0.700	NTU
47	Compliance	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
47	Compliance	E004	01/24/2024	Arsenic, total	0.00047 J	mg/L
47	Compliance	E004	01/24/2024	Barium, total	0.0970	mg/L
47	Compliance	E004	01/24/2024	Beryllium, total	0.00053 U	mg/L
47	Compliance	E004	01/24/2024	Boron, total	0.490	mg/L
47	Compliance	E004	01/24/2024	Cadmium, total	0.00017 U	mg/L
47	Compliance	E004	01/24/2024	Calcium, total	97.0	mg/L
47	Compliance	E004	01/24/2024	Chloride, total	94.0	mg/L
47	Compliance	E004	01/24/2024	Chromium, total	0.0011 U	mg/L
47	Compliance	E004	01/24/2024	Cobalt, total	0.00052 J	mg/L
47	Compliance	E004	01/24/2024	Dissolved Oxygen	2.55	mg/L
47	Compliance	E004	01/24/2024	Fluoride, total	0.280	mg/L
47	Compliance	E004	01/24/2024	Lead, total	0.00044 J	mg/L
47	Compliance	E004	01/24/2024	Lithium, total	0.00730	mg/L
47	Compliance	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
47	Compliance	E004	01/24/2024	Molybdenum, total	0.0260	mg/L
47	Compliance	E004	01/24/2024	Oxidation Reduction Potential	128	mV
47	Compliance	E004	01/24/2024	pH (field)	7.1	SU
47	Compliance	E004	01/24/2024	Radium 226 + Radium 228, total	0.339	pCi/L
47	Compliance	E004	01/24/2024	Selenium, total	0.00098 U	mg/L
47	Compliance	E004	01/24/2024	Specific Conductance @ 25C (field)	959	micromhos/cm
47	Compliance	E004	01/24/2024	Sulfate, total	76.0	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
47	Compliance	E004	01/24/2024	Temperature	16.7	degrees C
47	Compliance	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
47	Compliance	E004	01/24/2024	Total Dissolved Solids	600	mg/L
47	Compliance	E004	01/24/2024	Turbidity, field	0.480	NTU
52	Compliance	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
52	Compliance	E004	01/24/2024	Arsenic, total	0.00048 J	mg/L
52	Compliance	E004	01/24/2024	Barium, total	0.0870	mg/L
52	Compliance	E004	01/24/2024	Beryllium, total	0.00053 U	mg/L
52	Compliance	E004	01/24/2024	Boron, total	0.440	mg/L
52	Compliance	E004	01/24/2024	Cadmium, total	0.00017 U	mg/L
52	Compliance	E004	01/24/2024	Calcium, total	88.0	mg/L
52	Compliance	E004	01/24/2024	Chloride, total	91.0	mg/L
52	Compliance	E004	01/24/2024	Chromium, total	0.0011 U	mg/L
52	Compliance	E004	01/24/2024	Cobalt, total	0.0004 U	mg/L
52	Compliance	E004	01/24/2024	Dissolved Oxygen	3.60	mg/L
52	Compliance	E004	01/24/2024	Fluoride, total	0.250	mg/L
52	Compliance	E004	01/24/2024	Lead, total	0.00019 U	mg/L
52	Compliance	E004	01/24/2024	Lithium, total	0.00640	mg/L
52	Compliance	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
52	Compliance	E004	01/24/2024	Molybdenum, total	0.0120	mg/L
52	Compliance	E004	01/24/2024	Oxidation Reduction Potential	89.8	mV
52	Compliance	E004	01/24/2024	pH (field)	7.2	SU
52	Compliance	E004	01/24/2024	Radium 226 + Radium 228, total	0.378	pCi/L
52	Compliance	E004	01/24/2024	Selenium, total	0.002 J	mg/L
52	Compliance	E004	01/24/2024	Specific Conductance @ 25C (field)	966	micromhos/cm
52	Compliance	E004	01/24/2024	Sulfate, total	78.0	mg/L
52	Compliance	E004	01/24/2024	Temperature	13.9	degrees C
52	Compliance	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
52	Compliance	E004	01/24/2024	Total Dissolved Solids	580	mg/L
52	Compliance	E004	01/24/2024	Turbidity, field	1.97	NTU
54	Compliance	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
54	Compliance	E004	01/24/2024	Arsenic, total	0.00023 U	mg/L
54	Compliance	E004	01/24/2024	Barium, total	0.0550	mg/L
54	Compliance	E004	01/24/2024	Beryllium, total	0.00053 U	mg/L
54	Compliance	E004	01/24/2024	Boron, total	0.560	mg/L
54	Compliance	E004	01/24/2024	Cadmium, total	0.00017 U	mg/L
54	Compliance	E004	01/24/2024	Calcium, total	84.0	mg/L
54	Compliance	E004	01/24/2024	Chloride, total	86.0	mg/L
54	Compliance	E004	01/24/2024	Chromium, total	0.0011 U	mg/L
54	Compliance	E004	01/24/2024	Cobalt, total	0.0004 U	mg/L
54	Compliance	E004	01/24/2024	Dissolved Oxygen	1.65	mg/L
54	Compliance	E004	01/24/2024	Fluoride, total	0.260	mg/L
54	Compliance	E004	01/24/2024	Lead, total	0.00019 U	mg/L
54	Compliance	E004	01/24/2024	Lithium, total	0.0130	mg/L
54	Compliance	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
54	Compliance	E004	01/24/2024	Molybdenum, total	0.0280	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
54	Compliance	E004	01/24/2024	Oxidation Reduction Potential	39.8	mV
54	Compliance	E004	01/24/2024	pH (field)	7.3	SU
54	Compliance	E004	01/24/2024	Radium 226 + Radium 228, total	0.379	pCi/L
54	Compliance	E004	01/24/2024	Selenium, total	0.0014 J	mg/L
54	Compliance	E004	01/24/2024	Specific Conductance @ 25C (field)	873	micromhos/cm
54	Compliance	E004	01/24/2024	Sulfate, total	86.0	mg/L
54	Compliance	E004	01/24/2024	Temperature	14.4	degrees C
54	Compliance	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
54	Compliance	E004	01/24/2024	Total Dissolved Solids	580	mg/L
54	Compliance	E004	01/24/2024	Turbidity, field	4.28	NTU

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

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
07	Background	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
07	Background	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
07	Background	E005	04/16/2024	Barium, total	0.0990	mg/L
07	Background	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
07	Background	E005	04/16/2024	Boron, total	0.0730 J+	mg/L
07	Background	E005	04/16/2024	Cadmium, total	0.00017 U	mg/L
07	Background	E005	04/16/2024	Calcium, total	120	mg/L
07	Background	E005	04/16/2024	Chloride, total	49.0	mg/L
07	Background	E005	04/16/2024	Chromium, total	0.0012 J	mg/L
07	Background	E005	04/16/2024	Cobalt, total	0.00680	mg/L
07	Background	E005	04/16/2024	Dissolved Oxygen	5.12	mg/L
07	Background	E005	04/16/2024	Fluoride, total	0.130	mg/L
07	Background	E005	04/16/2024	Lead, total	0.00019 U	mg/L
07	Background	E005	04/16/2024	Lithium, total	0.00800	mg/L
07	Background	E005	04/16/2024	Mercury, total	0.00019 U	mg/L
07	Background	E005	04/16/2024	Molybdenum, total	0.0025 U	mg/L
07	Background	E005	04/16/2024	Oxidation Reduction Potential	154	mV
07	Background	E005	04/16/2024	pH (field)	7.0	SU
07	Background	E005	04/16/2024	Radium 226 + Radium 228, total	1.3	pCi/L
07	Background	E005	04/16/2024	Selenium, total	0.00098 U	mg/L
07	Background	E005	04/16/2024	Specific Conductance @ 25C (field)	1,036	micromhos/cm
07	Background	E005	04/16/2024	Sulfate, total	60.0	mg/L
07	Background	E005	04/16/2024	Temperature	12.8	degrees C
07	Background	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
07	Background	E005	04/16/2024	Total Dissolved Solids	560	mg/L
07	Background	E005	04/16/2024	Turbidity, field	2.24	NTU
08	Background	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
08	Background	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
08	Background	E005	04/16/2024	Barium, total	0.120	mg/L
08	Background	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
08	Background	E005	04/16/2024	Boron, total	0.120 J+	mg/L
08	Background	E005	04/16/2024	Cadmium, total	0.000500	mg/L
08	Background	E005	04/16/2024	Calcium, total	170	mg/L
08	Background	E005	04/16/2024	Chloride, total	190	mg/L
08	Background	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
08	Background	E005	04/16/2024	Cobalt, total	0.00330	mg/L
08	Background	E005	04/16/2024	Dissolved Oxygen	2.30	mg/L
08	Background	E005	04/16/2024	Fluoride, total	0.093 J	mg/L
08	Background	E005	04/16/2024	Lead, total	0.00048 J	mg/L
08	Background	E005	04/16/2024	Lithium, total	0.0160	mg/L
08	Background	E005	04/16/2024	Mercury, total	0.000076 U	mg/L
08	Background	E005	04/16/2024	Molybdenum, total	0.0025 U	mg/L
08	Background	E005	04/16/2024	Oxidation Reduction Potential	167	mV
08	Background	E005	04/16/2024	pH (field)	6.8	SU
08	Background	E005	04/16/2024	Radium 226 + Radium 228, total	1.35	pCi/L
08	Background	E005	04/16/2024	Selenium, total	0.00098 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
08	Background	E005	04/16/2024	Specific Conductance @ 25C (field)	1,879	micromhos/cm
08	Background	E005	04/16/2024	Sulfate, total	110	mg/L
08	Background	E005	04/16/2024	Temperature	14.6	degrees C
08	Background	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
08	Background	E005	04/16/2024	Total Dissolved Solids	1,100	mg/L
08	Background	E005	04/16/2024	Turbidity, field	0.550	NTU
08D	Background	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
08D	Background	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
08D	Background	E005	04/16/2024	Barium, total	0.120	mg/L
08D	Background	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
08D	Background	E005	04/16/2024	Boron, total	0.0990 J+	mg/L
08D	Background	E005	04/16/2024	Cadmium, total	0.00110	mg/L
08D	Background	E005	04/16/2024	Calcium, total	200	mg/L
08D	Background	E005	04/16/2024	Chloride, total	310	mg/L
08D	Background	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
08D	Background	E005	04/16/2024	Cobalt, total	0.00680	mg/L
08D	Background	E005	04/16/2024	Dissolved Oxygen	1.08	mg/L
08D	Background	E005	04/16/2024	Fluoride, total	0.110	mg/L
08D	Background	E005	04/16/2024	Lead, total	0.000930	mg/L
08D	Background	E005	04/16/2024	Lithium, total	0.00940	mg/L
08D	Background	E005	04/16/2024	Mercury, total	0.000076 U	mg/L
08D	Background	E005	04/16/2024	Molybdenum, total	0.0025 U	mg/L
08D	Background	E005	04/16/2024	Oxidation Reduction Potential	154	mV
08D	Background	E005	04/16/2024	pH (field)	6.7	SU
08D	Background	E005	04/16/2024	Radium 226 + Radium 228, total	0.413	pCi/L
08D	Background	E005	04/16/2024	Selenium, total	0.00098 U	mg/L
08D	Background	E005	04/16/2024	Specific Conductance @ 25C (field)	3,232	micromhos/cm
08D	Background	E005	04/16/2024	Sulfate, total	190	mg/L
08D	Background	E005	04/16/2024	Temperature	13.8	degrees C
08D	Background	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
08D	Background	E005	04/16/2024	Total Dissolved Solids	1,400	mg/L
08D	Background	E005	04/16/2024	Turbidity, field	3.49	NTU
16	Background	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
16	Background	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
16	Background	E005	04/16/2024	Barium, total	0.0590	mg/L
16	Background	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
16	Background	E005	04/16/2024	Boron, total	0.0840 J+	mg/L
16	Background	E005	04/16/2024	Cadmium, total	0.00017 U	mg/L
16	Background	E005	04/16/2024	Calcium, total	73.0	mg/L
16	Background	E005	04/16/2024	Chloride, total	61.0	mg/L
16	Background	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
16	Background	E005	04/16/2024	Cobalt, total	0.0004 U	mg/L
16	Background	E005	04/16/2024	Dissolved Oxygen	7.10	mg/L
16	Background	E005	04/16/2024	Fluoride, total	0.240	mg/L
16	Background	E005	04/16/2024	Lead, total	0.00019 U	mg/L
16	Background	E005	04/16/2024	Lithium, total	0.002 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
16	Background	E005	04/16/2024	Mercury, total	0.000095 J	mg/L
16	Background	E005	04/16/2024	Molybdenum, total	0.00620	mg/L
16	Background	E005	04/16/2024	Oxidation Reduction Potential	149	mV
16	Background	E005	04/16/2024	pH (field)	7.4	SU
16	Background	E005	04/16/2024	Radium 226 + Radium 228, total	0.637	pCi/L
16	Background	E005	04/16/2024	Selenium, total	0.00098 U	mg/L
16	Background	E005	04/16/2024	Specific Conductance @ 25C (field)	1,051	micromhos/cm
16	Background	E005	04/16/2024	Sulfate, total	51.0	mg/L
16	Background	E005	04/16/2024	Temperature	13.5	degrees C
16	Background	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
16	Background	E005	04/16/2024	Total Dissolved Solids	420	mg/L
16	Background	E005	04/16/2024	Turbidity, field	0.720	NTU
17	Background	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
17	Background	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
17	Background	E005	04/16/2024	Barium, total	0.0770	mg/L
17	Background	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
17	Background	E005	04/16/2024	Boron, total	0.0870 J+	mg/L
17	Background	E005	04/16/2024	Cadmium, total	0.00017 U	mg/L
17	Background	E005	04/16/2024	Calcium, total	68.0	mg/L
17	Background	E005	04/16/2024	Chloride, total	59.0	mg/L
17	Background	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
17	Background	E005	04/16/2024	Cobalt, total	0.0004 U	mg/L
17	Background	E005	04/16/2024	Dissolved Oxygen	7.42	mg/L
17	Background	E005	04/16/2024	Fluoride, total	0.180	mg/L
17	Background	E005	04/16/2024	Lead, total	0.00019 U	mg/L
17	Background	E005	04/16/2024	Lithium, total	0.0031 J	mg/L
17	Background	E005	04/16/2024	Mercury, total	0.000076 U	mg/L
17	Background	E005	04/16/2024	Molybdenum, total	0.0031 J	mg/L
17	Background	E005	04/16/2024	Oxidation Reduction Potential	154	mV
17	Background	E005	04/16/2024	pH (field)	7.3	SU
17	Background	E005	04/16/2024	Radium 226 + Radium 228, total	1.09	pCi/L
17	Background	E005	04/16/2024	Selenium, total	0.00098 U	mg/L
17	Background	E005	04/16/2024	Specific Conductance @ 25C (field)	1,053	micromhos/cm
17	Background	E005	04/16/2024	Sulfate, total	55.0	mg/L
17	Background	E005	04/16/2024	Temperature	14.8	degrees C
17	Background	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
17	Background	E005	04/16/2024	Total Dissolved Solids	420	mg/L
17	Background	E005	04/16/2024	Turbidity, field	6.22	NTU
12	Compliance	E005	04/15/2024	Antimony, total	0.0013 U	mg/L
12	Compliance	E005	04/15/2024	Arsenic, total	0.00023 J	mg/L
12	Compliance	E005	04/15/2024	Barium, total	0.0720	mg/L
12	Compliance	E005	04/15/2024	Beryllium, total	0.00053 U	mg/L
12	Compliance	E005	04/15/2024	Boron, total	0.210 J+	mg/L
12	Compliance	E005	04/15/2024	Cadmium, total	0.00017 U	mg/L
12	Compliance	E005	04/15/2024	Calcium, total	96.0	mg/L
12	Compliance	E005	04/15/2024	Chloride, total	68.0	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
12	Compliance	E005	04/15/2024	Chromium, total	0.0011 U	mg/L
12	Compliance	E005	04/15/2024	Cobalt, total	0.0004 U	mg/L
12	Compliance	E005	04/15/2024	Dissolved Oxygen	3.04	mg/L
12	Compliance	E005	04/15/2024	Fluoride, total	0.190	mg/L
12	Compliance	E005	04/15/2024	Lead, total	0.00019 U	mg/L
12	Compliance	E005	04/15/2024	Lithium, total	0.0140	mg/L
12	Compliance	E005	04/15/2024	Mercury, total	0.000076 U	mg/L
12	Compliance	E005	04/15/2024	Molybdenum, total	0.0120	mg/L
12	Compliance	E005	04/15/2024	Oxidation Reduction Potential	114	mV
12	Compliance	E005	04/15/2024	pH (field)	7.2	SU
12	Compliance	E005	04/15/2024	Radium 226 + Radium 228, total	0.59	pCi/L
12	Compliance	E005	04/15/2024	Selenium, total	0.0014 J	mg/L
12	Compliance	E005	04/15/2024	Specific Conductance @ 25C (field)	999	micromhos/cm
12	Compliance	E005	04/15/2024	Sulfate, total	76.0	mg/L
12	Compliance	E005	04/15/2024	Temperature	17.6	degrees C
12	Compliance	E005	04/15/2024	Thallium, total	0.00057 U	mg/L
12	Compliance	E005	04/15/2024	Total Dissolved Solids	590	mg/L
12	Compliance	E005	04/15/2024	Turbidity, field	1.20	NTU
13	Compliance	E005	04/15/2024	Antimony, total	0.0013 U	mg/L
13	Compliance	E005	04/15/2024	Arsenic, total	0.00037 J	mg/L
13	Compliance	E005	04/15/2024	Barium, total	0.0530	mg/L
13	Compliance	E005	04/15/2024	Beryllium, total	0.00053 U	mg/L
13	Compliance	E005	04/15/2024	Boron, total	0.240 J+	mg/L
13	Compliance	E005	04/15/2024	Cadmium, total	0.00017 U	mg/L
13	Compliance	E005	04/15/2024	Calcium, total	92.0	mg/L
13	Compliance	E005	04/15/2024	Chloride, total	71.0	mg/L
13	Compliance	E005	04/15/2024	Chromium, total	0.0011 U	mg/L
13	Compliance	E005	04/15/2024	Cobalt, total	0.0004 U	mg/L
13	Compliance	E005	04/15/2024	Dissolved Oxygen	2.35	mg/L
13	Compliance	E005	04/15/2024	Fluoride, total	0.190	mg/L
13	Compliance	E005	04/15/2024	Lead, total	0.00021 J	mg/L
13	Compliance	E005	04/15/2024	Lithium, total	0.0180	mg/L
13	Compliance	E005	04/15/2024	Mercury, total	0.000076 U	mg/L
13	Compliance	E005	04/15/2024	Molybdenum, total	0.0110	mg/L
13	Compliance	E005	04/15/2024	Oxidation Reduction Potential	107	mV
13	Compliance	E005	04/15/2024	pH (field)	7.3	SU
13	Compliance	E005	04/15/2024	Radium 226 + Radium 228, total	0.0634	pCi/L
13	Compliance	E005	04/15/2024	Selenium, total	0.0011 J	mg/L
13	Compliance	E005	04/15/2024	Specific Conductance @ 25C (field)	998	micromhos/cm
13	Compliance	E005	04/15/2024	Sulfate, total	76.0	mg/L
13	Compliance	E005	04/15/2024	Temperature	17.9	degrees C
13	Compliance	E005	04/15/2024	Thallium, total	0.00057 U	mg/L
13	Compliance	E005	04/15/2024	Total Dissolved Solids	570	mg/L
13	Compliance	E005	04/15/2024	Turbidity, field	0.560	NTU
46	Compliance	E005	04/15/2024	Antimony, total	0.0013 U	mg/L
46	Compliance	E005	04/15/2024	Arsenic, total	0.00023 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
46	Compliance	E005	04/15/2024	Barium, total	0.0760	mg/L
46	Compliance	E005	04/15/2024	Beryllium, total	0.00053 U	mg/L
46	Compliance	E005	04/15/2024	Boron, total	0.300 J+	mg/L
46	Compliance	E005	04/15/2024	Cadmium, total	0.00017 U	mg/L
46	Compliance	E005	04/15/2024	Calcium, total	91.0	mg/L
46	Compliance	E005	04/15/2024	Chloride, total	66.0	mg/L
46	Compliance	E005	04/15/2024	Chromium, total	0.0011 J	mg/L
46	Compliance	E005	04/15/2024	Cobalt, total	0.0004 U	mg/L
46	Compliance	E005	04/15/2024	Dissolved Oxygen	2.63	mg/L
46	Compliance	E005	04/15/2024	Fluoride, total	0.210	mg/L
46	Compliance	E005	04/15/2024	Lead, total	0.00019 U	mg/L
46	Compliance	E005	04/15/2024	Lithium, total	0.0130	mg/L
46	Compliance	E005	04/15/2024	Mercury, total	0.000076 U	mg/L
46	Compliance	E005	04/15/2024	Molybdenum, total	0.0150	mg/L
46	Compliance	E005	04/15/2024	Oxidation Reduction Potential	151	mV
46	Compliance	E005	04/15/2024	pH (field)	7.3	SU
46	Compliance	E005	04/15/2024	Radium 226 + Radium 228, total	0.436	pCi/L
46	Compliance	E005	04/15/2024	Selenium, total	0.0014 J	mg/L
46	Compliance	E005	04/15/2024	Specific Conductance @ 25C (field)	1,320	micromhos/cm
46	Compliance	E005	04/15/2024	Sulfate, total	79.0	mg/L
46	Compliance	E005	04/15/2024	Temperature	16.9	degrees C
46	Compliance	E005	04/15/2024	Thallium, total	0.00057 U	mg/L
46	Compliance	E005	04/15/2024	Total Dissolved Solids	530	mg/L
46	Compliance	E005	04/15/2024	Turbidity, field	0.920	NTU
47	Compliance	E005	04/15/2024	Antimony, total	0.0013 U	mg/L
47	Compliance	E005	04/15/2024	Arsenic, total	0.00023 U	mg/L
47	Compliance	E005	04/15/2024	Barium, total	0.0920	mg/L
47	Compliance	E005	04/15/2024	Beryllium, total	0.00053 U	mg/L
47	Compliance	E005	04/15/2024	Boron, total	0.260 J+	mg/L
47	Compliance	E005	04/15/2024	Cadmium, total	0.00017 U	mg/L
47	Compliance	E005	04/15/2024	Calcium, total	100	mg/L
47	Compliance	E005	04/15/2024	Chloride, total	68.0	mg/L
47	Compliance	E005	04/15/2024	Chromium, total	0.0011 U	mg/L
47	Compliance	E005	04/15/2024	Cobalt, total	0.0004 U	mg/L
47	Compliance	E005	04/15/2024	Dissolved Oxygen	2.22	mg/L
47	Compliance	E005	04/15/2024	Fluoride, total	0.280	mg/L
47	Compliance	E005	04/15/2024	Lead, total	0.00019 U	mg/L
47	Compliance	E005	04/15/2024	Lithium, total	0.0110	mg/L
47	Compliance	E005	04/15/2024	Mercury, total	0.000076 U	mg/L
47	Compliance	E005	04/15/2024	Molybdenum, total	0.0240	mg/L
47	Compliance	E005	04/15/2024	Oxidation Reduction Potential	148	mV
47	Compliance	E005	04/15/2024	pH (field)	7.1	SU
47	Compliance	E005	04/15/2024	Radium 226 + Radium 228, total	0.402	pCi/L
47	Compliance	E005	04/15/2024	Selenium, total	0.00400	mg/L
47	Compliance	E005	04/15/2024	Specific Conductance @ 25C (field)	1,358	micromhos/cm
47	Compliance	E005	04/15/2024	Sulfate, total	73.0	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
47	Compliance	E005	04/15/2024	Temperature	18.1	degrees C
47	Compliance	E005	04/15/2024	Thallium, total	0.00057 U	mg/L
47	Compliance	E005	04/15/2024	Total Dissolved Solids	560	mg/L
47	Compliance	E005	04/15/2024	Turbidity, field	0.740	NTU
52	Compliance	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
52	Compliance	E005	04/16/2024	Arsenic, total	0.00023 U	mg/L
52	Compliance	E005	04/16/2024	Barium, total	0.0780	mg/L
52	Compliance	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
52	Compliance	E005	04/16/2024	Boron, total	0.440 J+	mg/L
52	Compliance	E005	04/16/2024	Cadmium, total	0.00017 U	mg/L
52	Compliance	E005	04/16/2024	Calcium, total	81.0	mg/L
52	Compliance	E005	04/16/2024	Chloride, total	70.0	mg/L
52	Compliance	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
52	Compliance	E005	04/16/2024	Cobalt, total	0.0004 U	mg/L
52	Compliance	E005	04/16/2024	Dissolved Oxygen	2.36	mg/L
52	Compliance	E005	04/16/2024	Fluoride, total	0.310	mg/L
52	Compliance	E005	04/16/2024	Lead, total	0.00019 U	mg/L
52	Compliance	E005	04/16/2024	Lithium, total	0.0046 J	mg/L
52	Compliance	E005	04/16/2024	Mercury, total	0.000076 U	mg/L
52	Compliance	E005	04/16/2024	Molybdenum, total	0.0170	mg/L
52	Compliance	E005	04/16/2024	Oxidation Reduction Potential	134	mV
52	Compliance	E005	04/16/2024	pH (field)	7.2	SU
52	Compliance	E005	04/16/2024	Radium 226 + Radium 228, total	1.33	pCi/L
52	Compliance	E005	04/16/2024	Selenium, total	0.0024 J	mg/L
52	Compliance	E005	04/16/2024	Specific Conductance @ 25C (field)	946	micromhos/cm
52	Compliance	E005	04/16/2024	Sulfate, total	71.0	mg/L
52	Compliance	E005	04/16/2024	Temperature	18.4	degrees C
52	Compliance	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
52	Compliance	E005	04/16/2024	Total Dissolved Solids	540	mg/L
52	Compliance	E005	04/16/2024	Turbidity, field	1.70	NTU
54	Compliance	E005	04/16/2024	Antimony, total	0.0013 U	mg/L
54	Compliance	E005	04/16/2024	Arsenic, total	0.00024 J	mg/L
54	Compliance	E005	04/16/2024	Barium, total	0.0560	mg/L
54	Compliance	E005	04/16/2024	Beryllium, total	0.00053 U	mg/L
54	Compliance	E005	04/16/2024	Boron, total	0.580 J+	mg/L
54	Compliance	E005	04/16/2024	Cadmium, total	0.00017 U	mg/L
54	Compliance	E005	04/16/2024	Calcium, total	86.0	mg/L
54	Compliance	E005	04/16/2024	Chloride, total	71.0	mg/L
54	Compliance	E005	04/16/2024	Chromium, total	0.0011 U	mg/L
54	Compliance	E005	04/16/2024	Cobalt, total	0.0004 U	mg/L
54	Compliance	E005	04/16/2024	Dissolved Oxygen	1.07	mg/L
54	Compliance	E005	04/16/2024	Fluoride, total	0.270	mg/L
54	Compliance	E005	04/16/2024	Lead, total	0.00019 U	mg/L
54	Compliance	E005	04/16/2024	Lithium, total	0.290 J	mg/L
54	Compliance	E005	04/16/2024	Mercury, total	0.00170	mg/L
54	Compliance	E005	04/16/2024	Molybdenum, total	0.0250	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
54	Compliance	E005	04/16/2024	Oxidation Reduction Potential	152	mV
54	Compliance	E005	04/16/2024	pH (field)	7.3	SU
54	Compliance	E005	04/16/2024	Radium 226 + Radium 228, total	0.551	pCi/L
54	Compliance	E005	04/16/2024	Selenium, total	0.00280	mg/L
54	Compliance	E005	04/16/2024	Specific Conductance @ 25C (field)	1,340	micromhos/cm
54	Compliance	E005	04/16/2024	Sulfate, total	88.0	mg/L
54	Compliance	E005	04/16/2024	Temperature	17.7	degrees C
54	Compliance	E005	04/16/2024	Thallium, total	0.00057 U	mg/L
54	Compliance	E005	04/16/2024	Total Dissolved Solids	580	mg/L
54	Compliance	E005	04/16/2024	Turbidity, field	1.61	NTU

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

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
07	Background	E006	07/15/2024	Antimony, total	0.0013 U	mg/L
07	Background	E006	07/15/2024	Arsenic, total	0.00023 U	mg/L
07	Background	E006	07/15/2024	Barium, total	0.170	mg/L
07	Background	E006	07/15/2024	Beryllium, total	0.00053 U	mg/L
07	Background	E006	07/15/2024	Boron, total	0.0930 J	mg/L
07	Background	E006	07/15/2024	Cadmium, total	0.00017 U	mg/L
07	Background	E006	07/15/2024	Calcium, total	170	mg/L
07	Background	E006	07/15/2024	Chloride, total	170	mg/L
07	Background	E006	07/15/2024	Chromium, total	0.0011 U	mg/L
07	Background	E006	07/15/2024	Cobalt, total	0.00230	mg/L
07	Background	E006	07/15/2024	Dissolved Oxygen	6.82	mg/L
07	Background	E006	07/15/2024	Fluoride, total	0.120	mg/L
07	Background	E006	07/15/2024	Lead, total	0.00019 U	mg/L
07	Background	E006	07/15/2024	Lithium, total	0.0130 J+	mg/L
07	Background	E006	07/15/2024	Mercury, total	0.000076 U	mg/L
07	Background	E006	07/15/2024	Molybdenum, total	0.0025 U	mg/L
07	Background	E006	07/15/2024	Oxidation Reduction Potential	192	mV
07	Background	E006	07/15/2024	pH (field)	6.7	SU
07	Background	E006	07/15/2024	Radium 226 + Radium 228, total	0.436	pCi/L
07	Background	E006	07/15/2024	Selenium, total	0.00098 U	mg/L
07	Background	E006	07/15/2024	Specific Conductance @ 25C (field)	1,662	micromhos/cm
07	Background	E006	07/15/2024	Sulfate, total	63.0	mg/L
07	Background	E006	07/15/2024	Temperature	16.4	degrees C
07	Background	E006	07/15/2024	Thallium, total	0.00057 U	mg/L
07	Background	E006	07/15/2024	Total Dissolved Solids	1,100	mg/L
07	Background	E006	07/15/2024	Turbidity, field	2.66	NTU
08	Background	E006	07/16/2024	Antimony, total	0.0013 U	mg/L
08	Background	E006	07/16/2024	Arsenic, total	0.00023 U	mg/L
08	Background	E006	07/16/2024	Barium, total	0.100	mg/L
08	Background	E006	07/16/2024	Beryllium, total	0.00053 U	mg/L
08	Background	E006	07/16/2024	Boron, total	0.0990 J+	mg/L
08	Background	E006	07/16/2024	Cadmium, total	0.0003 J	mg/L
08	Background	E006	07/16/2024	Calcium, total	180	mg/L
08	Background	E006	07/16/2024	Chloride, total	150	mg/L
08	Background	E006	07/16/2024	Chromium, total	0.0011 U	mg/L
08	Background	E006	07/16/2024	Cobalt, total	0.00120	mg/L
08	Background	E006	07/16/2024	Dissolved Oxygen	2.21	mg/L
08	Background	E006	07/16/2024	Fluoride, total	0.110	mg/L
08	Background	E006	07/16/2024	Lead, total	0.0005 UJ	mg/L
08	Background	E006	07/16/2024	Lithium, total	0.0110 J+	mg/L
08	Background	E006	07/16/2024	Mercury, total	0.000076 U	mg/L
08	Background	E006	07/16/2024	Molybdenum, total	0.0025 U	mg/L
08	Background	E006	07/16/2024	Oxidation Reduction Potential	189	mV
08	Background	E006	07/16/2024	pH (field)	6.7	SU
08	Background	E006	07/16/2024	Radium 226 + Radium 228, total	0.596	pCi/L
08	Background	E006	07/16/2024	Selenium, total	0.00098 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
08	Background	E006	07/16/2024	Specific Conductance @ 25C (field)	1,597	micromhos/cm
08	Background	E006	07/16/2024	Sulfate, total	110	mg/L
08	Background	E006	07/16/2024	Temperature	18.1	degrees C
08	Background	E006	07/16/2024	Thallium, total	0.00057 U	mg/L
08	Background	E006	07/16/2024	Total Dissolved Solids	870	mg/L
08	Background	E006	07/16/2024	Turbidity, field	1.78	NTU
08D	Background	E006	07/16/2024	Antimony, total	0.0013 U	mg/L
08D	Background	E006	07/16/2024	Arsenic, total	0.00023 U	mg/L
08D	Background	E006	07/16/2024	Barium, total	0.100	mg/L
08D	Background	E006	07/16/2024	Beryllium, total	0.00053 U	mg/L
08D	Background	E006	07/16/2024	Boron, total	0.100 J+	mg/L
08D	Background	E006	07/16/2024	Cadmium, total	0.000500	mg/L
08D	Background	E006	07/16/2024	Calcium, total	190	mg/L
08D	Background	E006	07/16/2024	Chloride, total	300	mg/L
08D	Background	E006	07/16/2024	Chromium, total	0.0011 U	mg/L
08D	Background	E006	07/16/2024	Cobalt, total	0.00310	mg/L
08D	Background	E006	07/16/2024	Dissolved Oxygen	0.280	mg/L
08D	Background	E006	07/16/2024	Fluoride, total	0.110	mg/L
08D	Background	E006	07/16/2024	Lead, total	0.0005 UJ	mg/L
08D	Background	E006	07/16/2024	Lithium, total	0.0160 J+	mg/L
08D	Background	E006	07/16/2024	Mercury, total	0.000076 U	mg/L
08D	Background	E006	07/16/2024	Molybdenum, total	0.0025 U	mg/L
08D	Background	E006	07/16/2024	Oxidation Reduction Potential	196	mV
08D	Background	E006	07/16/2024	pH (field)	6.7	SU
08D	Background	E006	07/16/2024	Radium 226 + Radium 228, total	0.418	pCi/L
08D	Background	E006	07/16/2024	Selenium, total	0.00098 U	mg/L
08D	Background	E006	07/16/2024	Specific Conductance @ 25C (field)	1,824	micromhos/cm
08D	Background	E006	07/16/2024	Sulfate, total	170	mg/L
08D	Background	E006	07/16/2024	Temperature	15.4	degrees C
08D	Background	E006	07/16/2024	Thallium, total	0.00057 U	mg/L
08D	Background	E006	07/16/2024	Total Dissolved Solids	1,300	mg/L
08D	Background	E006	07/16/2024	Turbidity, field	4.41	NTU
16	Background	E006	07/16/2024	Antimony, total	0.0013 U	mg/L
16	Background	E006	07/16/2024	Arsenic, total	0.00023 U	mg/L
16	Background	E006	07/16/2024	Barium, total	0.0630	mg/L
16	Background	E006	07/16/2024	Beryllium, total	0.00053 U	mg/L
16	Background	E006	07/16/2024	Boron, total	0.180 J+	mg/L
16	Background	E006	07/16/2024	Cadmium, total	0.00017 U	mg/L
16	Background	E006	07/16/2024	Calcium, total	73.0	mg/L
16	Background	E006	07/16/2024	Chloride, total	70.0	mg/L
16	Background	E006	07/16/2024	Chromium, total	0.0011 U	mg/L
16	Background	E006	07/16/2024	Cobalt, total	0.0004 U	mg/L
16	Background	E006	07/16/2024	Dissolved Oxygen	0.480	mg/L
16	Background	E006	07/16/2024	Fluoride, total	0.270	mg/L
16	Background	E006	07/16/2024	Lead, total	0.00019 U	mg/L
16	Background	E006	07/16/2024	Lithium, total	0.00760 J+	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
16	Background	E006	07/16/2024	Mercury, total	0.000076 U	mg/L
16	Background	E006	07/16/2024	Molybdenum, total	0.00980	mg/L
16	Background	E006	07/16/2024	Oxidation Reduction Potential	193	mV
16	Background	E006	07/16/2024	pH (field)	7.3	SU
16	Background	E006	07/16/2024	Radium 226 + Radium 228, total	0.117	pCi/L
16	Background	E006	07/16/2024	Selenium, total	0.00098 U	mg/L
16	Background	E006	07/16/2024	Specific Conductance @ 25C (field)	823	micromhos/cm
16	Background	E006	07/16/2024	Sulfate, total	59.0	mg/L
16	Background	E006	07/16/2024	Temperature	22.1	degrees C
16	Background	E006	07/16/2024	Thallium, total	0.00057 U	mg/L
16	Background	E006	07/16/2024	Total Dissolved Solids	450	mg/L
16	Background	E006	07/16/2024	Turbidity, field	1.12	NTU
17	Background	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
17	Background	E006	08/06/2024	Arsenic, total	0.00023 U	mg/L
17	Background	E006	08/06/2024	Barium, total	0.0680	mg/L
17	Background	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
17	Background	E006	08/06/2024	Boron, total	0.110 J+	mg/L
17	Background	E006	08/06/2024	Cadmium, total	0.00017 U	mg/L
17	Background	E006	08/06/2024	Calcium, total	65.0	mg/L
17	Background	E006	08/06/2024	Chloride, total	68.0	mg/L
17	Background	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
17	Background	E006	08/06/2024	Cobalt, total	0.0004 U	mg/L
17	Background	E006	08/06/2024	Dissolved Oxygen	6.79	mg/L
17	Background	E006	08/06/2024	Fluoride, total	0.270	mg/L
17	Background	E006	08/06/2024	Lead, total	0.00019 U	mg/L
17	Background	E006	08/06/2024	Lithium, total	0.00620 J+	mg/L
17	Background	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
17	Background	E006	08/06/2024	Molybdenum, total	0.00620	mg/L
17	Background	E006	08/06/2024	Oxidation Reduction Potential	88.7	mV
17	Background	E006	08/06/2024	pH (field)	7.2	SU
17	Background	E006	08/06/2024	Radium 226 + Radium 228, total	0.745	pCi/L
17	Background	E006	08/06/2024	Selenium, total	0.00098 U	mg/L
17	Background	E006	08/06/2024	Specific Conductance @ 25C (field)	789	micromhos/cm
17	Background	E006	08/06/2024	Sulfate, total	55.0	mg/L
17	Background	E006	08/06/2024	Temperature	23.0	degrees C
17	Background	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
17	Background	E006	08/06/2024	Total Dissolved Solids	400	mg/L
17	Background	E006	08/06/2024	Turbidity, field	1.43	NTU
12	Compliance	E006	07/15/2024	Antimony, total	0.0013 U	mg/L
12	Compliance	E006	07/15/2024	Arsenic, total	0.00023 U	mg/L
12	Compliance	E006	07/15/2024	Barium, total	0.0560	mg/L
12	Compliance	E006	07/15/2024	Beryllium, total	0.00053 U	mg/L
12	Compliance	E006	07/15/2024	Boron, total	0.170 J+	mg/L
12	Compliance	E006	07/15/2024	Cadmium, total	0.00017 U	mg/L
12	Compliance	E006	07/15/2024	Calcium, total	77.0	mg/L
12	Compliance	E006	07/15/2024	Chloride, total	69.0	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
12	Compliance	E006	07/15/2024	Chromium, total	0.0011 U	mg/L
12	Compliance	E006	07/15/2024	Cobalt, total	0.0004 U	mg/L
12	Compliance	E006	07/15/2024	Dissolved Oxygen	2.79	mg/L
12	Compliance	E006	07/15/2024	Fluoride, total	0.220	mg/L
12	Compliance	E006	07/15/2024	Lead, total	0.00019 U	mg/L
12	Compliance	E006	07/15/2024	Lithium, total	0.00830 J+	mg/L
12	Compliance	E006	07/15/2024	Mercury, total	0.000076 U	mg/L
12	Compliance	E006	07/15/2024	Molybdenum, total	0.0150	mg/L
12	Compliance	E006	07/15/2024	Oxidation Reduction Potential	108	mV
12	Compliance	E006	07/15/2024	pH (field)	7.3	SU
12	Compliance	E006	07/15/2024	Radium 226 + Radium 228, total	0.641	pCi/L
12	Compliance	E006	07/15/2024	Selenium, total	0.00098 U	mg/L
12	Compliance	E006	07/15/2024	Specific Conductance @ 25C (field)	678	micromhos/cm
12	Compliance	E006	07/15/2024	Sulfate, total	60.0	mg/L
12	Compliance	E006	07/15/2024	Temperature	18.0	degrees C
12	Compliance	E006	07/15/2024	Thallium, total	0.00057 U	mg/L
12	Compliance	E006	07/15/2024	Total Dissolved Solids	570	mg/L
12	Compliance	E006	07/15/2024	Turbidity, field	4.08	NTU
13	Compliance	E006	07/15/2024	Antimony, total	0.0013 U	mg/L
13	Compliance	E006	07/15/2024	Arsenic, total	0.0003 J	mg/L
13	Compliance	E006	07/15/2024	Barium, total	0.0440	mg/L
13	Compliance	E006	07/15/2024	Beryllium, total	0.00053 U	mg/L
13	Compliance	E006	07/15/2024	Boron, total	0.170 J+	mg/L
13	Compliance	E006	07/15/2024	Cadmium, total	0.00017 U	mg/L
13	Compliance	E006	07/15/2024	Calcium, total	80.0	mg/L
13	Compliance	E006	07/15/2024	Chloride, total	69.0	mg/L
13	Compliance	E006	07/15/2024	Chromium, total	0.0011 U	mg/L
13	Compliance	E006	07/15/2024	Cobalt, total	0.0004 U	mg/L
13	Compliance	E006	07/15/2024	Dissolved Oxygen	2.37	mg/L
13	Compliance	E006	07/15/2024	Fluoride, total	0.200	mg/L
13	Compliance	E006	07/15/2024	Lead, total	0.00019 U	mg/L
13	Compliance	E006	07/15/2024	Lithium, total	0.0110 J+	mg/L
13	Compliance	E006	07/15/2024	Mercury, total	0.000076 U	mg/L
13	Compliance	E006	07/15/2024	Molybdenum, total	0.00990	mg/L
13	Compliance	E006	07/15/2024	Oxidation Reduction Potential	139	mV
13	Compliance	E006	07/15/2024	pH (field)	7.3	SU
13	Compliance	E006	07/15/2024	Radium 226 + Radium 228, total	0.153	pCi/L
13	Compliance	E006	07/15/2024	Selenium, total	0.00098 U	mg/L
13	Compliance	E006	07/15/2024	Specific Conductance @ 25C (field)	684	micromhos/cm
13	Compliance	E006	07/15/2024	Sulfate, total	61.0	mg/L
13	Compliance	E006	07/15/2024	Temperature	17.6	degrees C
13	Compliance	E006	07/15/2024	Thallium, total	0.00057 U	mg/L
13	Compliance	E006	07/15/2024	Total Dissolved Solids	560	mg/L
13	Compliance	E006	07/15/2024	Turbidity, field	4.00	NTU
46	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
46	Compliance	E006	08/06/2024	Arsenic, total	0.00023 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
46	Compliance	E006	08/06/2024	Barium, total	0.0630	mg/L
46	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
46	Compliance	E006	08/06/2024	Boron, total	0.190 J+	mg/L
46	Compliance	E006	08/06/2024	Cadmium, total	0.00017 U	mg/L
46	Compliance	E006	08/06/2024	Calcium, total	77.0	mg/L
46	Compliance	E006	08/06/2024	Chloride, total	67.0	mg/L
46	Compliance	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
46	Compliance	E006	08/06/2024	Cobalt, total	0.0004 U	mg/L
46	Compliance	E006	08/06/2024	Dissolved Oxygen	1.94	mg/L
46	Compliance	E006	08/06/2024	Fluoride, total	0.240	mg/L
46	Compliance	E006	08/06/2024	Lead, total	0.00019 U	mg/L
46	Compliance	E006	08/06/2024	Lithium, total	0.00800 J+	mg/L
46	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
46	Compliance	E006	08/06/2024	Molybdenum, total	0.0170	mg/L
46	Compliance	E006	08/06/2024	Oxidation Reduction Potential	117	mV
46	Compliance	E006	08/06/2024	pH (field)	7.2	SU
46	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	0.111	pCi/L
46	Compliance	E006	08/06/2024	Selenium, total	0.00098 U	mg/L
46	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	857	micromhos/cm
46	Compliance	E006	08/06/2024	Sulfate, total	58.0	mg/L
46	Compliance	E006	08/06/2024	Temperature	19.5	degrees C
46	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
46	Compliance	E006	08/06/2024	Total Dissolved Solids	410	mg/L
46	Compliance	E006	08/06/2024	Turbidity, field	1.51	NTU
47	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
47	Compliance	E006	08/06/2024	Arsenic, total	0.00023 U	mg/L
47	Compliance	E006	08/06/2024	Barium, total	0.0720	mg/L
47	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
47	Compliance	E006	08/06/2024	Boron, total	0.360	mg/L
47	Compliance	E006	08/06/2024	Cadmium, total	0.00017 U	mg/L
47	Compliance	E006	08/06/2024	Calcium, total	85.0	mg/L
47	Compliance	E006	08/06/2024	Chloride, total	65.0	mg/L
47	Compliance	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
47	Compliance	E006	08/06/2024	Cobalt, total	0.0004 U	mg/L
47	Compliance	E006	08/06/2024	Dissolved Oxygen	2.77	mg/L
47	Compliance	E006	08/06/2024	Fluoride, total	0.310	mg/L
47	Compliance	E006	08/06/2024	Lead, total	0.00019 U	mg/L
47	Compliance	E006	08/06/2024	Lithium, total	0.0100 J+	mg/L
47	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
47	Compliance	E006	08/06/2024	Molybdenum, total	0.0310	mg/L
47	Compliance	E006	08/06/2024	Oxidation Reduction Potential	144	mV
47	Compliance	E006	08/06/2024	pH (field)	7.2	SU
47	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	0.13	pCi/L
47	Compliance	E006	08/06/2024	Selenium, total	0.0012 J	mg/L
47	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	907	micromhos/cm
47	Compliance	E006	08/06/2024	Sulfate, total	73.0	mg/L

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HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
47	Compliance	E006	08/06/2024	Temperature	18.4	degrees C
47	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
47	Compliance	E006	08/06/2024	Total Dissolved Solids	460	mg/L
47	Compliance	E006	08/06/2024	Turbidity, field	0.440	NTU
52	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
52	Compliance	E006	08/06/2024	Arsenic, total	0.00023 U	mg/L
52	Compliance	E006	08/06/2024	Barium, total	0.0810	mg/L
52	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
52	Compliance	E006	08/06/2024	Boron, total	0.280 J+	mg/L
52	Compliance	E006	08/06/2024	Cadmium, total	0.00017 U	mg/L
52	Compliance	E006	08/06/2024	Calcium, total	89.0	mg/L
52	Compliance	E006	08/06/2024	Chloride, total	70.0	mg/L
52	Compliance	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
52	Compliance	E006	08/06/2024	Cobalt, total	0.0004 U	mg/L
52	Compliance	E006	08/06/2024	Dissolved Oxygen	0.980	mg/L
52	Compliance	E006	08/06/2024	Fluoride, total	0.270	mg/L
52	Compliance	E006	08/06/2024	Lead, total	0.00019 U	mg/L
52	Compliance	E006	08/06/2024	Lithium, total	0.0100 J+	mg/L
52	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
52	Compliance	E006	08/06/2024	Molybdenum, total	0.0140	mg/L
52	Compliance	E006	08/06/2024	Oxidation Reduction Potential	127	mV
52	Compliance	E006	08/06/2024	pH (field)	7.0	SU
52	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	0.295	pCi/L
52	Compliance	E006	08/06/2024	Selenium, total	0.00098 U	mg/L
52	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	932	micromhos/cm
52	Compliance	E006	08/06/2024	Sulfate, total	60.0	mg/L
52	Compliance	E006	08/06/2024	Temperature	20.0	degrees C
52	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
52	Compliance	E006	08/06/2024	Total Dissolved Solids	450	mg/L
52	Compliance	E006	08/06/2024	Turbidity, field	1.20	NTU
54	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
54	Compliance	E006	08/06/2024	Arsenic, total	0.00023 J	mg/L
54	Compliance	E006	08/06/2024	Barium, total	0.0460	mg/L
54	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
54	Compliance	E006	08/06/2024	Boron, total	0.290 J+	mg/L
54	Compliance	E006	08/06/2024	Cadmium, total	0.00017 U	mg/L
54	Compliance	E006	08/06/2024	Calcium, total	78.0	mg/L
54	Compliance	E006	08/06/2024	Chloride, total	69.0	mg/L
54	Compliance	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
54	Compliance	E006	08/06/2024	Cobalt, total	0.0004 U	mg/L
54	Compliance	E006	08/06/2024	Dissolved Oxygen	3.07	mg/L
54	Compliance	E006	08/06/2024	Fluoride, total	0.250	mg/L
54	Compliance	E006	08/06/2024	Lead, total	0.00019 U	mg/L
54	Compliance	E006	08/06/2024	Lithium, total	0.0110 J+	mg/L
54	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
54	Compliance	E006	08/06/2024	Molybdenum, total	0.0250	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
54	Compliance	E006	08/06/2024	Oxidation Reduction Potential	125	mV
54	Compliance	E006	08/06/2024	pH (field)	7.3	SU
54	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	0.138	pCi/L
54	Compliance	E006	08/06/2024	Selenium, total	0.0011 J	mg/L
54	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	874	micromhos/cm
54	Compliance	E006	08/06/2024	Sulfate, total	64.0	mg/L
54	Compliance	E006	08/06/2024	Temperature	19.0	degrees C
54	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
54	Compliance	E006	08/06/2024	Total Dissolved Solids	480	mg/L
54	Compliance	E006	08/06/2024	Turbidity, field	0.810	NTU

Notes:
C = Celsius
cm = centimeter
mg/L = milligrams per liter
Missing Code (if applicable):
NR¹ = Select parameters were not analyzed.
NS¹ = This well has been, or will be, abandoned; therefore, a sample was not collected.
NS² = Well either needs or was undergoing maintenance, therefore, a sample was not collected.
NS³ = A sample was not collected because the location was inaccessible.
NS⁴ = The location could not be found, therefore a sample was not collected.
NS⁵ = A sample was not collected because of damage to the well.
NS⁶ = A sample was not collected because of pump issues.
NS⁷ = A sample was not collected because the well was either dry or was purged dry and did not recover.
PM¹ = Select parameters were not analyzed as the well purged dry during sample collection and did not sufficiently recover to sample for all parameters.
mV = millivolts
NTU = Nephelometric Turbidity Units
pCi/L = picocuries per liter
SU = Standard Units
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, but the result may be biased high.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

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

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HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
08	Background	E007	10/10/2024	Specific Conductance @ 25C (field)	1,549	micromhos/cm
08	Background	E007	10/10/2024	Sulfate, total	100	mg/L
08	Background	E007	10/10/2024	Temperature	13.7	degrees C
08	Background	E007	10/10/2024	Thallium, total	0.00057 U	mg/L
08	Background	E007	10/10/2024	Total Dissolved Solids	1,100	mg/L
08	Background	E007	10/10/2024	Turbidity, field	9.91	NTU
08D	Background	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
08D	Background	E007	10/08/2024	Arsenic, total	0.00023 U	mg/L
08D	Background	E007	10/08/2024	Barium, total	0.0930	mg/L
08D	Background	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
08D	Background	E007	10/08/2024	Boron, total	0.0930 J+	mg/L
08D	Background	E007	10/08/2024	Cadmium, total	0.00039 J	mg/L
08D	Background	E007	10/08/2024	Calcium, total	170	mg/L
08D	Background	E007	10/08/2024	Chloride, total	240	mg/L
08D	Background	E007	10/08/2024	Chromium, total	0.0011 U	mg/L
08D	Background	E007	10/08/2024	Cobalt, total	0.00200	mg/L
08D	Background	E007	10/08/2024	Dissolved Oxygen	1.58	mg/L
08D	Background	E007	10/08/2024	Fluoride, total	0.100	mg/L
08D	Background	E007	10/08/2024	Lead, total	0.00032 J	mg/L
08D	Background	E007	10/08/2024	Lithium, total	0.0140	mg/L
08D	Background	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
08D	Background	E007	10/08/2024	Molybdenum, total	0.0025 U	mg/L
08D	Background	E007	10/08/2024	Oxidation Reduction Potential	124	mV
08D	Background	E007	10/08/2024	pH (field)	6.7	SU
08D	Background	E007	10/08/2024	Radium 226 + Radium 228, total	0.773	pCi/L
08D	Background	E007	10/08/2024	Selenium, total	0.00098 U	mg/L
08D	Background	E007	10/08/2024	Specific Conductance @ 25C (field)	1,675	micromhos/cm
08D	Background	E007	10/08/2024	Sulfate, total	120	mg/L
08D	Background	E007	10/08/2024	Temperature	13.1	degrees C
08D	Background	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
08D	Background	E007	10/08/2024	Total Dissolved Solids	1,100	mg/L
08D	Background	E007	10/08/2024	Turbidity, field	6.33	NTU
16	Background	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
16	Background	E007	10/09/2024	Arsenic, total	0.00023 U	mg/L
16	Background	E007	10/09/2024	Barium, total	0.0720	mg/L
16	Background	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
16	Background	E007	10/09/2024	Boron, total	0.140 J+	mg/L
16	Background	E007	10/09/2024	Cadmium, total	0.00017 U	mg/L
16	Background	E007	10/09/2024	Calcium, total	82.0	mg/L
16	Background	E007	10/09/2024	Chloride, total	70.0	mg/L
16	Background	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
16	Background	E007	10/09/2024	Cobalt, total	0.0004 U	mg/L
16	Background	E007	10/09/2024	Dissolved Oxygen	2.06	mg/L
16	Background	E007	10/09/2024	Fluoride, total	0.210	mg/L
16	Background	E007	10/09/2024	Lead, total	0.00019 U	mg/L
16	Background	E007	10/09/2024	Lithium, total	0.00560	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
16	Background	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
16	Background	E007	10/09/2024	Molybdenum, total	0.00640	mg/L
16	Background	E007	10/09/2024	Oxidation Reduction Potential	131	mV
16	Background	E007	10/09/2024	pH (field)	7.0	SU
16	Background	E007	10/09/2024	Radium 226 + Radium 228, total	0.157	pCi/L
16	Background	E007	10/09/2024	Selenium, total	0.00098 U	mg/L
16	Background	E007	10/09/2024	Specific Conductance @ 25C (field)	736	micromhos/cm
16	Background	E007	10/09/2024	Sulfate, total	62.0	mg/L
16	Background	E007	10/09/2024	Temperature	21.4	degrees C
16	Background	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
16	Background	E007	10/09/2024	Total Dissolved Solids	460	mg/L
16	Background	E007	10/09/2024	Turbidity, field	5.24	NTU
17	Background	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
17	Background	E007	10/09/2024	Arsenic, total	0.00023 U	mg/L
17	Background	E007	10/09/2024	Barium, total	0.0860	mg/L
17	Background	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
17	Background	E007	10/09/2024	Boron, total	0.130 J+	mg/L
17	Background	E007	10/09/2024	Cadmium, total	0.00017 U	mg/L
17	Background	E007	10/09/2024	Calcium, total	74.0	mg/L
17	Background	E007	10/09/2024	Chloride, total	89.0	mg/L
17	Background	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
17	Background	E007	10/09/2024	Cobalt, total	0.0004 U	mg/L
17	Background	E007	10/09/2024	Dissolved Oxygen	4.98	mg/L
17	Background	E007	10/09/2024	Fluoride, total	0.230	mg/L
17	Background	E007	10/09/2024	Lead, total	0.00019 U	mg/L
17	Background	E007	10/09/2024	Lithium, total	0.00660	mg/L
17	Background	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
17	Background	E007	10/09/2024	Molybdenum, total	0.0043 J	mg/L
17	Background	E007	10/09/2024	Oxidation Reduction Potential	135	mV
17	Background	E007	10/09/2024	pH (field)	7.0	SU
17	Background	E007	10/09/2024	Radium 226 + Radium 228, total	0.442	pCi/L
17	Background	E007	10/09/2024	Selenium, total	0.00098 U	mg/L
17	Background	E007	10/09/2024	Specific Conductance @ 25C (field)	762	micromhos/cm
17	Background	E007	10/09/2024	Sulfate, total	70.0	mg/L
17	Background	E007	10/09/2024	Temperature	22.6	degrees C
17	Background	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
17	Background	E007	10/09/2024	Total Dissolved Solids	470	mg/L
17	Background	E007	10/09/2024	Turbidity, field	93	NTU
12	Compliance	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
12	Compliance	E007	10/08/2024	Arsenic, total	0.00023 J	mg/L
12	Compliance	E007	10/08/2024	Barium, total	0.0580	mg/L
12	Compliance	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
12	Compliance	E007	10/08/2024	Boron, total	0.130 J+	mg/L
12	Compliance	E007	10/08/2024	Cadmium, total	0.00017 U	mg/L
12	Compliance	E007	10/08/2024	Calcium, total	77.0	mg/L
12	Compliance	E007	10/08/2024	Chloride, total	74.0	mg/L

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EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
12	Compliance	E007	10/08/2024	Chromium, total	0.0011 U	mg/L
12	Compliance	E007	10/08/2024	Cobalt, total	0.0004 U	mg/L
12	Compliance	E007	10/08/2024	Dissolved Oxygen	1.74	mg/L
12	Compliance	E007	10/08/2024	Fluoride, total	0.220	mg/L
12	Compliance	E007	10/08/2024	Lead, total	0.00019 U	mg/L
12	Compliance	E007	10/08/2024	Lithium, total	0.00900	mg/L
12	Compliance	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
12	Compliance	E007	10/08/2024	Molybdenum, total	0.0140	mg/L
12	Compliance	E007	10/08/2024	Oxidation Reduction Potential	55.3	mV
12	Compliance	E007	10/08/2024	pH (field)	7.2	SU
12	Compliance	E007	10/08/2024	Radium 226 + Radium 228, total	0.867	pCi/L
12	Compliance	E007	10/08/2024	Selenium, total	0.00098 U	mg/L
12	Compliance	E007	10/08/2024	Specific Conductance @ 25C (field)	871	micromhos/cm
12	Compliance	E007	10/08/2024	Sulfate, total	61.0	mg/L
12	Compliance	E007	10/08/2024	Temperature	19.4	degrees C
12	Compliance	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
12	Compliance	E007	10/08/2024	Total Dissolved Solids	470	mg/L
12	Compliance	E007	10/08/2024	Turbidity, field	2.79	NTU
13	Compliance	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
13	Compliance	E007	10/08/2024	Arsenic, total	0.00037 J	mg/L
13	Compliance	E007	10/08/2024	Barium, total	0.0440	mg/L
13	Compliance	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
13	Compliance	E007	10/08/2024	Boron, total	0.170 J+	mg/L
13	Compliance	E007	10/08/2024	Cadmium, total	0.00017 U	mg/L
13	Compliance	E007	10/08/2024	Calcium, total	80.0	mg/L
13	Compliance	E007	10/08/2024	Chloride, total	66.0	mg/L
13	Compliance	E007	10/08/2024	Chromium, total	0.0011 J	mg/L
13	Compliance	E007	10/08/2024	Cobalt, total	0.0004 U	mg/L
13	Compliance	E007	10/08/2024	Dissolved Oxygen	1.37	mg/L
13	Compliance	E007	10/08/2024	Fluoride, total	0.190	mg/L
13	Compliance	E007	10/08/2024	Lead, total	0.00019 U	mg/L
13	Compliance	E007	10/08/2024	Lithium, total	0.0110	mg/L
13	Compliance	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
13	Compliance	E007	10/08/2024	Molybdenum, total	0.0110	mg/L
13	Compliance	E007	10/08/2024	Oxidation Reduction Potential	57.4	mV
13	Compliance	E007	10/08/2024	pH (field)	7.3	SU
13	Compliance	E007	10/08/2024	Radium 226 + Radium 228, total	0.863	pCi/L
13	Compliance	E007	10/08/2024	Selenium, total	0.00098 U	mg/L
13	Compliance	E007	10/08/2024	Specific Conductance @ 25C (field)	865	micromhos/cm
13	Compliance	E007	10/08/2024	Sulfate, total	56.0	mg/L
13	Compliance	E007	10/08/2024	Temperature	18.4	degrees C
13	Compliance	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
13	Compliance	E007	10/08/2024	Total Dissolved Solids	440	mg/L
13	Compliance	E007	10/08/2024	Turbidity, field	3.06	NTU
46	Compliance	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
46	Compliance	E007	10/09/2024	Arsenic, total	0.00023 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
46	Compliance	E007	10/09/2024	Barium, total	0.0740	mg/L
46	Compliance	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
46	Compliance	E007	10/09/2024	Boron, total	0.140 J+	mg/L
46	Compliance	E007	10/09/2024	Cadmium, total	0.00017 U	mg/L
46	Compliance	E007	10/09/2024	Calcium, total	81.0	mg/L
46	Compliance	E007	10/09/2024	Chloride, total	79.0	mg/L
46	Compliance	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
46	Compliance	E007	10/09/2024	Cobalt, total	0.0004 U	mg/L
46	Compliance	E007	10/09/2024	Dissolved Oxygen	1.28	mg/L
46	Compliance	E007	10/09/2024	Fluoride, total	0.240	mg/L
46	Compliance	E007	10/09/2024	Lead, total	0.00019 U	mg/L
46	Compliance	E007	10/09/2024	Lithium, total	0.00760	mg/L
46	Compliance	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
46	Compliance	E007	10/09/2024	Molybdenum, total	0.0200	mg/L
46	Compliance	E007	10/09/2024	Oxidation Reduction Potential	99.9	mV
46	Compliance	E007	10/09/2024	pH (field)	7.2	SU
46	Compliance	E007	10/09/2024	Radium 226 + Radium 228, total	0.526	pCi/L
46	Compliance	E007	10/09/2024	Selenium, total	0.00098 U	mg/L
46	Compliance	E007	10/09/2024	Specific Conductance @ 25C (field)	709	micromhos/cm
46	Compliance	E007	10/09/2024	Sulfate, total	61.0	mg/L
46	Compliance	E007	10/09/2024	Temperature	21.2	degrees C
46	Compliance	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
46	Compliance	E007	10/09/2024	Total Dissolved Solids	450	mg/L
46	Compliance	E007	10/09/2024	Turbidity, field	7.28	NTU
47	Compliance	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
47	Compliance	E007	10/09/2024	Arsenic, total	0.00023 U	mg/L
47	Compliance	E007	10/09/2024	Barium, total	0.0790	mg/L
47	Compliance	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
47	Compliance	E007	10/09/2024	Boron, total	0.160 J+	mg/L
47	Compliance	E007	10/09/2024	Cadmium, total	0.00017 U	mg/L
47	Compliance	E007	10/09/2024	Calcium, total	91.0	mg/L
47	Compliance	E007	10/09/2024	Chloride, total	71.0	mg/L
47	Compliance	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
47	Compliance	E007	10/09/2024	Cobalt, total	0.0004 U	mg/L
47	Compliance	E007	10/09/2024	Dissolved Oxygen	1.98	mg/L
47	Compliance	E007	10/09/2024	Fluoride, total	0.260	mg/L
47	Compliance	E007	10/09/2024	Lead, total	0.00019 U	mg/L
47	Compliance	E007	10/09/2024	Lithium, total	0.0100	mg/L
47	Compliance	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
47	Compliance	E007	10/09/2024	Molybdenum, total	0.0280	mg/L
47	Compliance	E007	10/09/2024	Oxidation Reduction Potential	119	mV
47	Compliance	E007	10/09/2024	pH (field)	7.0	SU
47	Compliance	E007	10/09/2024	Radium 226 + Radium 228, total	0.748	pCi/L
47	Compliance	E007	10/09/2024	Selenium, total	0.00098 U	mg/L
47	Compliance	E007	10/09/2024	Specific Conductance @ 25C (field)	727	micromhos/cm
47	Compliance	E007	10/09/2024	Sulfate, total	57.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
47	Compliance	E007	10/09/2024	Temperature	19.6	degrees C
47	Compliance	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
47	Compliance	E007	10/09/2024	Total Dissolved Solids	460	mg/L
47	Compliance	E007	10/09/2024	Turbidity, field	7.78	NTU
52	Compliance	E007	10/10/2024	Antimony, total	0.0013 U	mg/L
52	Compliance	E007	10/10/2024	Arsenic, total	0.00023 U	mg/L
52	Compliance	E007	10/10/2024	Barium, total	0.100	mg/L
52	Compliance	E007	10/10/2024	Beryllium, total	0.00053 U	mg/L
52	Compliance	E007	10/10/2024	Boron, total	0.320 J+	mg/L
52	Compliance	E007	10/10/2024	Cadmium, total	0.00017 U	mg/L
52	Compliance	E007	10/10/2024	Calcium, total	100	mg/L
52	Compliance	E007	10/10/2024	Chloride, total	72.0	mg/L
52	Compliance	E007	10/10/2024	Chromium, total	0.0011 U	mg/L
52	Compliance	E007	10/10/2024	Cobalt, total	0.0004 U	mg/L
52	Compliance	E007	10/10/2024	Dissolved Oxygen	1.44	mg/L
52	Compliance	E007	10/10/2024	Fluoride, total	0.260	mg/L
52	Compliance	E007	10/10/2024	Lead, total	0.00019 U	mg/L
52	Compliance	E007	10/10/2024	Lithium, total	0.00940	mg/L
52	Compliance	E007	10/10/2024	Mercury, total	0.000076 U	mg/L
52	Compliance	E007	10/10/2024	Molybdenum, total	0.0130	mg/L
52	Compliance	E007	10/10/2024	Oxidation Reduction Potential	41.7	mV
52	Compliance	E007	10/10/2024	pH (field)	6.9	SU
52	Compliance	E007	10/10/2024	Radium 226 + Radium 228, total	0.459	pCi/L
52	Compliance	E007	10/10/2024	Selenium, total	0.00098 U	mg/L
52	Compliance	E007	10/10/2024	Specific Conductance @ 25C (field)	1,008	micromhos/cm
52	Compliance	E007	10/10/2024	Sulfate, total	63.0	mg/L
52	Compliance	E007	10/10/2024	Temperature	19.8	degrees C
52	Compliance	E007	10/10/2024	Thallium, total	0.00057 U	mg/L
52	Compliance	E007	10/10/2024	Total Dissolved Solids	510	mg/L
52	Compliance	E007	10/10/2024	Turbidity, field	3.11	NTU
54	Compliance	E007	10/10/2024	Antimony, total	0.0013 U	mg/L
54	Compliance	E007	10/10/2024	Arsenic, total	0.00023 U	mg/L
54	Compliance	E007	10/10/2024	Barium, total	0.0520	mg/L
54	Compliance	E007	10/10/2024	Beryllium, total	0.00053 U	mg/L
54	Compliance	E007	10/10/2024	Boron, total	0.300 J+	mg/L
54	Compliance	E007	10/10/2024	Cadmium, total	0.00017 U	mg/L
54	Compliance	E007	10/10/2024	Calcium, total	79.0	mg/L
54	Compliance	E007	10/10/2024	Chloride, total	63.0	mg/L
54	Compliance	E007	10/10/2024	Chromium, total	0.0011 U	mg/L
54	Compliance	E007	10/10/2024	Cobalt, total	0.0004 U	mg/L
54	Compliance	E007	10/10/2024	Dissolved Oxygen	2.08	mg/L
54	Compliance	E007	10/10/2024	Fluoride, total	0.260	mg/L
54	Compliance	E007	10/10/2024	Lead, total	0.00019 U	mg/L
54	Compliance	E007	10/10/2024	Lithium, total	0.0100	mg/L
54	Compliance	E007	10/10/2024	Mercury, total	0.000076 U	mg/L
54	Compliance	E007	10/10/2024	Molybdenum, total	0.0300	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2024

845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
54	Compliance	E007	10/10/2024	Oxidation Reduction Potential	88.6	mV
54	Compliance	E007	10/10/2024	pH (field)	7.2	SU
54	Compliance	E007	10/10/2024	Radium 226 + Radium 228, total	0.128	pCi/L
54	Compliance	E007	10/10/2024	Selenium, total	0.00098 U	mg/L
54	Compliance	E007	10/10/2024	Specific Conductance @ 25C (field)	658	micromhos/cm
54	Compliance	E007	10/10/2024	Sulfate, total	57.0	mg/L
54	Compliance	E007	10/10/2024	Temperature	17.1	degrees C
54	Compliance	E007	10/10/2024	Thallium, total	0.00057 U	mg/L
54	Compliance	E007	10/10/2024	Total Dissolved Solids	470	mg/L
54	Compliance	E007	10/10/2024	Turbidity, field	8.51	NTU

Notes:

C = Celsius
cm = centimeter
mg/L = milligrams per liter
mV = millivolts
NTU = Nephelometric Turbidity Units
pCi/L = picocuries per liter
Result Code (if applicable):
NR¹ = Parameter not analyzed.
NS¹ = Well has been, or will be, abandoned; therefore, a sample was not collected.
NS² = Well either needs or was undergoing maintenance; therefore, a sample was not collected.
NS³ = The location was not accessible; therefore, a sample was not collected.
NS⁴ = The location could not be found; therefore, a sample was not collected.
NS⁵ = The location was damaged; therefore, a sample was not collected.
NS⁶ = Sampling pump could not yield a sample.
NS⁷ = Well was either dry or purged dry and did not recover sufficiently to yield adequate volume for a sample.
NS⁸ = A sample was not collected.
PM¹ = Parameter not analyzed as the well purged dry during sample collection and did not sufficiently recover to yield adequate sample volume for analysis.
SU = Standard Units
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, but the result may be biased high.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
12	UA	E004	Antimony, total	mg/L	12/09/15 - 01/24/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
12	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/24/24	25	100	All ND - Last	0.001	0.010	Standard	No Exceedance
12	UA	E004	Barium, total	mg/L	12/09/15 - 01/24/24	27	0	CI around mean	0.0521	2.0	Standard	No Exceedance
12	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
12	UA	E004	Boron, total	mg/L	12/09/15 - 01/24/24	28	0	CB around T-S line	0.0443	2	Standard	No Exceedance
12	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/24/24	29	90	CI around median	0.001	0.005	Standard	No Exceedance
12	UA	E004	Chloride, total	mg/L	12/09/15 - 01/24/24	28	0	CI around mean	70.6	435	Background	No Exceedance
12	UA	E004	Chromium, total	mg/L	12/09/15 - 01/24/24	25	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
12	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/24/24	23	83	Most recent sample	0.001	0.0380	Background	No Exceedance
12	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/24/24	28	3	CI around median	0.23	4.0	Standard	No Exceedance
12	UA	E004	Lead, total	mg/L	12/09/15 - 01/24/24	25	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
12	UA	E004	Lithium, total	mg/L	12/09/15 - 01/24/24	24	4	CB around linear reg	0.0057	0.04	Standard	No Exceedance
12	UA	E004	Mercury, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
12	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/24/24	27	0	CB around linear reg	0.011	0.1	Standard	No Exceedance
12	UA	E004	pH (field)	SU	12/09/15 - 01/24/24	35	0	CI around mean	7.3/7.4	6.5/9.0	Standard/Standard	No Exceedance
12	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around mean	0.466	5	Standard	No Exceedance
12	UA	E004	Selenium, total	mg/L	12/09/15 - 01/24/24	27	58	CI around median	0.001	0.05	Standard	No Exceedance
12	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/24/24	28	0	CI around geomean	63.7	400	Standard	No Exceedance
12	UA	E004	Thallium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
12	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	462	1,620	Background	No Exceedance
13	UA	E004	Antimony, total	mg/L	12/09/15 - 01/24/24	20	96	CB around T-S line	0.001	0.006	Standard	No Exceedance
13	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/24/24	25	97	CI around median	0.001	0.010	Standard	No Exceedance
13	UA	E004	Barium, total	mg/L	12/09/15 - 01/24/24	27	0	CI around mean	0.043	2.0	Standard	No Exceedance
13	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
13	UA	E004	Boron, total	mg/L	12/09/15 - 01/24/24	28	0	CI around mean	0.569	2	Standard	No Exceedance
13	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/24/24	29	98	CI around median	0.001	0.005	Standard	No Exceedance
13	UA	E004	Chloride, total	mg/L	12/09/15 - 01/24/24	28	0	CI around mean	73.6	435	Background	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
13	UA	E004	Chromium, total	mg/L	12/09/15 - 01/24/24	25	86	CB around T-S line	0.00167	0.1	Standard	No Exceedance
13	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/24/24	23	83	Most recent sample	0.001	0.0380	Background	No Exceedance
13	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/24/24	28	3	CI around median	0.2	4.0	Standard	No Exceedance
13	UA	E004	Lead, total	mg/L	12/09/15 - 01/24/24	25	97	CI around median	0.001	0.0075	Standard	No Exceedance
13	UA	E004	Lithium, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	0.0161	0.04	Standard	No Exceedance
13	UA	E004	Mercury, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
13	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/24/24	27	26	CI around mean	0.0146	0.1	Standard	No Exceedance
13	UA	E004	pH (field)	SU	12/09/15 - 01/24/24	35	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
13	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around mean	0.492	5	Standard	No Exceedance
13	UA	E004	Selenium, total	mg/L	12/09/15 - 01/24/24	27	45	CI around mean	0.00135	0.05	Standard	No Exceedance
13	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/24/24	28	0	CI around mean	77.2	400	Standard	No Exceedance
13	UA	E004	Thallium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
13	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/24/24	27	0	CI around mean	481	1,620	Background	No Exceedance
46	UA	E004	Antimony, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.003	0.006	Standard	No Exceedance
46	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/24/24	21	100	All ND - Last	0.001	0.010	Standard	No Exceedance
46	UA	E004	Barium, total	mg/L	12/09/15 - 01/24/24	23	0	CB around linear reg	0.0655	2.0	Standard	No Exceedance
46	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.001	0.004	Standard	No Exceedance
46	UA	E004	Boron, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	0.196	2	Standard	No Exceedance
46	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
46	UA	E004	Chloride, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	70.3	435	Background	No Exceedance
46	UA	E004	Chromium, total	mg/L	12/09/15 - 01/24/24	21	90	CB around T-S line	0.00162	0.1	Standard	No Exceedance
46	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.001	0.0380	Background	No Exceedance
46	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/24/24	24	4	CI around median	0.24	4.0	Standard	No Exceedance
46	UA	E004	Lead, total	mg/L	12/09/15 - 01/24/24	21	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
46	UA	E004	Lithium, total	mg/L	12/09/15 - 01/24/24	23	4	CI around median	0.0088	0.04	Standard	No Exceedance
46	UA	E004	Mercury, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
46	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/24/24	23	0	CB around T-S line	0.00957	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
46	UA	E004	pH (field)	SU	12/09/15 - 01/24/24	24	0	CB around linear reg	7.0/7.3	6.5/9.0	Standard/Standard	No Exceedance
46	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around geomean	0.315	5	Standard	No Exceedance
46	UA	E004	Selenium, total	mg/L	12/09/15 - 01/24/24	23	61	CI around median	0.001	0.05	Standard	No Exceedance
46	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/24/24	24	0	CI around geomean	62.3	400	Standard	No Exceedance
46	UA	E004	Thallium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.002	0.002	Standard	No Exceedance
46	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/24/24	24	0	CB around linear reg	456	1,620	Background	No Exceedance
47	UA	E004	Antimony, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.003	0.006	Standard	No Exceedance
47	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/24/24	21	95	CI around median	0.001	0.010	Standard	No Exceedance
47	UA	E004	Barium, total	mg/L	12/09/15 - 01/24/24	23	0	CB around linear reg	0.0842	2.0	Standard	No Exceedance
47	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.001	0.004	Standard	No Exceedance
47	UA	E004	Boron, total	mg/L	12/09/15 - 01/24/24	24	0	CI around geomean	0.218	2	Standard	No Exceedance
47	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
47	UA	E004	Chloride, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	74.6	435	Background	No Exceedance
47	UA	E004	Chromium, total	mg/L	12/09/15 - 01/24/24	21	95	CB around T-S line	0.00158	0.1	Standard	No Exceedance
47	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/24/24	22	82	CI around median	0.001	0.0380	Background	No Exceedance
47	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/24/24	24	4	CB around T-S line	0.22	4.0	Standard	No Exceedance
47	UA	E004	Lead, total	mg/L	12/09/15 - 01/24/24	21	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
47	UA	E004	Lithium, total	mg/L	12/09/15 - 01/24/24	23	0	CI around mean	0.00832	0.04	Standard	No Exceedance
47	UA	E004	Mercury, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
47	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/24/24	23	0	CB around linear reg	0.0138	0.1	Standard	No Exceedance
47	UA	E004	pH (field)	SU	12/09/15 - 01/24/24	24	0	CI around mean	7.0/7.1	6.5/9.0	Standard/Standard	No Exceedance
47	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around mean	0.384	5	Standard	No Exceedance
47	UA	E004	Selenium, total	mg/L	12/09/15 - 01/24/24	22	91	CB around T-S line	0.001	0.05	Standard	No Exceedance
47	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	64.3	400	Standard	No Exceedance
47	UA	E004	Thallium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.002	0.002	Standard	No Exceedance
47	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	478	1,620	Background	No Exceedance
52	UA	E004	Antimony, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
52	UA	E004	Arsenic, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.010	Standard	No Exceedance
52	UA	E004	Barium, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.0734	2.0	Standard	No Exceedance
52	UA	E004	Beryllium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
52	UA	E004	Boron, total	mg/L	02/24/21 - 01/24/24	13	0	CI around geomean	0.135	2	Standard	No Exceedance
52	UA	E004	Cadmium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
52	UA	E004	Chloride, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	73.9	435	Background	No Exceedance
52	UA	E004	Chromium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.005	0.1	Standard	No Exceedance
52	UA	E004	Cobalt, total	mg/L	02/24/21 - 01/24/24	13	92	Most recent sample	0.001	0.0380	Background	No Exceedance
52	UA	E004	Fluoride, total	mg/L	02/24/21 - 01/24/24	13	8	CI around geomean	0.26	4.0	Standard	No Exceedance
52	UA	E004	Lead, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
52	UA	E004	Lithium, total	mg/L	02/24/21 - 01/24/24	13	8	CI around mean	0.00566	0.04	Standard	No Exceedance
52	UA	E004	Mercury, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
52	UA	E004	Molybdenum, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.0105	0.1	Standard	No Exceedance
52	UA	E004	pH (field)	SU	02/24/21 - 01/24/24	13	0	CI around mean	7.0/7.4	6.5/9.0	Standard/Standard	No Exceedance
52	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 01/24/24	13	0	CI around mean	0.378	5	Standard	No Exceedance
52	UA	E004	Selenium, total	mg/L	02/24/21 - 01/24/24	13	92	CB around T-S line	0.001	0.05	Standard	No Exceedance
52	UA	E004	Sulfate, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	60	400	Standard	No Exceedance
52	UA	E004	Thallium, total	mg/L	02/24/21 - 01/24/24	13	92	CI around median	0.002	0.002	Standard	No Exceedance
52	UA	E004	Total Dissolved Solids	mg/L	02/24/21 - 01/24/24	12	0	CI around mean	440	1,620	Background	No Exceedance
54	UA	E004	Antimony, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.003	0.006	Standard	No Exceedance
54	UA	E004	Arsenic, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.010	Standard	No Exceedance
54	UA	E004	Barium, total	mg/L	02/24/21 - 01/24/24	13	0	CB around linear reg	0.0396	2.0	Standard	No Exceedance
54	UA	E004	Beryllium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
54	UA	E004	Boron, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.492	2	Standard	No Exceedance
54	UA	E004	Cadmium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
54	UA	E004	Chloride, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	79.7	435	Background	No Exceedance
54	UA	E004	Chromium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.005	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
54	UA	E004	Cobalt, total	mg/L	02/24/21 - 01/24/24	13	85	CI around median	0.001	0.0380	Background	No Exceedance
54	UA	E004	Fluoride, total	mg/L	02/24/21 - 01/24/24	13	8	CB around T-S line	-0.165	4.0	Standard	No Exceedance
54	UA	E004	Lead, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
54	UA	E004	Lithium, total	mg/L	02/24/21 - 01/24/24	13	0	CB around linear reg	0.00869	0.04	Standard	No Exceedance
54	UA	E004	Mercury, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
54	UA	E004	Molybdenum, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.0214	0.1	Standard	No Exceedance
54	UA	E004	pH (field)	SU	02/24/21 - 01/24/24	13	0	CI around mean	7.0/7.4	6.5/9.0	Standard/Standard	No Exceedance
54	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 01/24/24	13	0	CI around geomean	0.109	5	Standard	No Exceedance
54	UA	E004	Selenium, total	mg/L	02/24/21 - 01/24/24	13	54	CB around T-S line	0.00151	0.05	Standard	No Exceedance
54	UA	E004	Sulfate, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	76.5	400	Standard	No Exceedance
54	UA	E004	Thallium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.002	0.002	Standard	No Exceedance
54	UA	E004	Total Dissolved Solids	mg/L	02/24/21 - 01/24/24	11	0	CI around mean	490	1,620	Background	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
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

Most recent sample = Result for the most recently collected sample used due to insufficient data

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)

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
12	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	21	100	All ND - Last	0.003	0.006	Standard	No Exceedance
12	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.001	0.010	Standard	No Exceedance
12	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0527	2.0	Standard	No Exceedance
12	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
12	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	29	0	CB around T-S line	0.0437	2	Standard	No Exceedance
12	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	30	90	CI around median	0.001	0.005	Standard	No Exceedance
12	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	70.5	435	Background	No Exceedance
12	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	26	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
12	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	24	83	Most recent sample	0.001	0.0380	Background	No Exceedance
12	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	29	2	CI around median	0.23	4.0	Standard	No Exceedance
12	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
12	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	25	4	CB around linear reg	0.00615	0.04	Standard	No Exceedance
12	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
12	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	28	0	CB around linear reg	0.0102	0.1	Standard	No Exceedance
12	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	36	0	CI around mean	7.3/7.4	6.5/9.0	Standard/Standard	No Exceedance
12	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.354	5	Standard	No Exceedance
12	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	28	59	CI around median	0.001	0.05	Standard	No Exceedance
12	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	64.3	400	Standard	No Exceedance
12	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
12	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	464	1,620	Background	No Exceedance
13	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	21	96	CB around T-S line	0.001	0.006	Standard	No Exceedance
13	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	26	97	CI around median	0.001	0.010	Standard	No Exceedance
13	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0433	2.0	Standard	No Exceedance
13	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
13	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	0.553	2	Standard	No Exceedance
13	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	30	98	CI around median	0.001	0.005	Standard	No Exceedance
13	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	73.5	435	Background	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
13	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	26	86	CB around T-S line	0.00171	0.1	Standard	No Exceedance
13	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	24	83	Most recent sample	0.001	0.0380	Background	No Exceedance
13	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	29	2	CI around median	0.2	4.0	Standard	No Exceedance
13	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	26	97	CI around median	0.001	0.0075	Standard	No Exceedance
13	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	0.0162	0.04	Standard	No Exceedance
13	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
13	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	28	26	CI around mean	0.0144	0.1	Standard	No Exceedance
13	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	36	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
13	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around mean	0.464	5	Standard	No Exceedance
13	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	28	46	CI around mean	0.00134	0.05	Standard	No Exceedance
13	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	77.1	400	Standard	No Exceedance
13	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
13	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	483	1,620	Background	No Exceedance
46	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
46	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.001	0.010	Standard	No Exceedance
46	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0668	2.0	Standard	No Exceedance
46	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
46	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	0.2	2	Standard	No Exceedance
46	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
46	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	70.1	435	Background	No Exceedance
46	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	22	91	CB around T-S line	0.0015	0.1	Standard	No Exceedance
46	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.001	0.0380	Background	No Exceedance
46	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	25	4	CI around median	0.23	4.0	Standard	No Exceedance
46	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
46	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	24	4	CI around median	0.0089	0.04	Standard	No Exceedance
46	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
46	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	24	0	CB around T-S line	0.0106	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
46	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	25	0	CB around linear reg	7.0/7.3	6.5/9.0	Standard/Standard	No Exceedance
46	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.319	5	Standard	No Exceedance
46	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	24	62	CI around median	0.001	0.05	Standard	No Exceedance
46	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	25	0	CI around geomean	62.8	400	Standard	No Exceedance
46	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
46	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CB around linear reg	463	1,620	Background	No Exceedance
47	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
47	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	22	96	CI around median	0.001	0.010	Standard	No Exceedance
47	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0848	2.0	Standard	No Exceedance
47	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
47	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	25	0	CI around geomean	0.219	2	Standard	No Exceedance
47	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
47	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	74.2	435	Background	No Exceedance
47	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	22	96	CB around T-S line	0.00128	0.1	Standard	No Exceedance
47	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	23	83	CI around median	0.001	0.0380	Background	No Exceedance
47	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	25	4	CB around T-S line	0.217	4.0	Standard	No Exceedance
47	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
47	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	24	0	CI around mean	0.00843	0.04	Standard	No Exceedance
47	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
47	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0137	0.1	Standard	No Exceedance
47	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	25	0	CI around mean	7.0/7.1	6.5/9.0	Standard/Standard	No Exceedance
47	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.317	5	Standard	No Exceedance
47	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	23	87	CB around T-S line	0.001	0.05	Standard	No Exceedance
47	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	64.6	400	Standard	No Exceedance
47	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
47	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CB around linear reg	501	1,620	Background	No Exceedance
52	UA	E005	Antimony, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
52	UA	E005	Arsenic, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.010	Standard	No Exceedance
52	UA	E005	Barium, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0738	2.0	Standard	No Exceedance
52	UA	E005	Beryllium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
52	UA	E005	Boron, total	mg/L	02/24/21 - 04/16/24	14	0	CI around geomean	0.141	2	Standard	No Exceedance
52	UA	E005	Cadmium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
52	UA	E005	Chloride, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	73.4	435	Background	No Exceedance
52	UA	E005	Chromium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.005	0.1	Standard	No Exceedance
52	UA	E005	Cobalt, total	mg/L	02/24/21 - 04/16/24	14	93	Most recent sample	0.001	0.0380	Background	No Exceedance
52	UA	E005	Fluoride, total	mg/L	02/24/21 - 04/16/24	14	7	CI around geomean	0.264	4.0	Standard	No Exceedance
52	UA	E005	Lead, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
52	UA	E005	Lithium, total	mg/L	02/24/21 - 04/16/24	14	14	CI around mean	0.00519	0.04	Standard	No Exceedance
52	UA	E005	Mercury, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
52	UA	E005	Molybdenum, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0107	0.1	Standard	No Exceedance
52	UA	E005	pH (field)	SU	02/24/21 - 04/16/24	14	0	CI around mean	7.0/7.3	6.5/9.0	Standard/Standard	No Exceedance
52	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 04/16/24	14	0	CI around mean	0.429	5	Standard	No Exceedance
52	UA	E005	Selenium, total	mg/L	02/24/21 - 04/16/24	14	93	CB around T-S line	0.001	0.05	Standard	No Exceedance
52	UA	E005	Sulfate, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	60.8	400	Standard	No Exceedance
52	UA	E005	Thallium, total	mg/L	02/24/21 - 04/16/24	14	93	CI around median	0.002	0.002	Standard	No Exceedance
52	UA	E005	Total Dissolved Solids	mg/L	02/24/21 - 04/16/24	13	0	CI around mean	447	1,620	Background	No Exceedance
54	UA	E005	Antimony, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance
54	UA	E005	Arsenic, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.010	Standard	No Exceedance
54	UA	E005	Barium, total	mg/L	02/24/21 - 04/16/24	14	0	CB around linear reg	0.0409	2.0	Standard	No Exceedance
54	UA	E005	Beryllium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
54	UA	E005	Boron, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.5	2	Standard	No Exceedance
54	UA	E005	Cadmium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
54	UA	E005	Chloride, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	78.4	435	Background	No Exceedance
54	UA	E005	Chromium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.005	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
54	UA	E005	Cobalt, total	mg/L	02/24/21 - 04/16/24	14	86	CI around median	0.001	0.0380	Background	No Exceedance
54	UA	E005	Fluoride, total	mg/L	02/24/21 - 04/16/24	14	7	CB around T-S line	-0.242	4.0	Standard	No Exceedance
54	UA	E005	Lead, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
54	UA	E005	Lithium, total	mg/L	02/24/21 - 04/16/24	14	0	CI around median	0.012	0.04	Standard	No Exceedance
54	UA	E005	Mercury, total	mg/L	02/24/21 - 04/16/24	14	93	CI around median	0.0002	0.002	Standard	No Exceedance
54	UA	E005	Molybdenum, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0217	0.1	Standard	No Exceedance
54	UA	E005	pH (field)	SU	02/24/21 - 04/16/24	14	0	CI around mean	7.0/7.4	6.5/9.0	Standard/Standard	No Exceedance
54	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 04/16/24	14	0	CI around mean	0.187	5	Standard	No Exceedance
54	UA	E005	Selenium, total	mg/L	02/24/21 - 04/16/24	14	50	CB around linear reg	0.00195	0.05	Standard	No Exceedance
54	UA	E005	Sulfate, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	77.4	400	Standard	No Exceedance
54	UA	E005	Thallium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.002	0.002	Standard	No Exceedance
54	UA	E005	Total Dissolved Solids	mg/L	02/24/21 - 04/16/24	12	0	CI around mean	494	1,620	Background	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
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

Most recent sample = Result for the most recently collected sample used due to insufficient data

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)

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
12	UA	E006	Antimony, total	mg/L	12/09/15 - 07/15/24	22	100	All ND - Last	0.003	0.006	Standard	No Exceedance
12	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/15/24	27	100	All ND - Last	0.001	0.010	Standard	No Exceedance
12	UA	E006	Barium, total	mg/L	12/09/15 - 07/15/24	29	0	CI around mean	0.0529	2.0	Standard	No Exceedance
12	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.001	0.004	Standard	No Exceedance
12	UA	E006	Boron, total	mg/L	12/09/15 - 07/15/24	30	0	CB around T-S line	0.0369	2	Standard	No Exceedance
12	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/15/24	31	90	CB around T-S line	0.000632	0.005	Standard	No Exceedance
12	UA	E006	Chloride, total	mg/L	12/09/15 - 07/15/24	30	0	CI around mean	70.4	435	Background	No Exceedance
12	UA	E006	Chromium, total	mg/L	12/09/15 - 07/15/24	27	97	CB around T-S line	0.00153	0.1	Standard	No Exceedance
12	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/15/24	25	84	Most recent sample	0.001	0.0380	Background	No Exceedance
12	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/15/24	30	2	CI around median	0.23	4.0	Standard	No Exceedance
12	UA	E006	Lead, total	mg/L	12/09/15 - 07/15/24	27	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
12	UA	E006	Lithium, total	mg/L	12/09/15 - 07/15/24	26	4	CB around linear reg	0.00605	0.04	Standard	No Exceedance
12	UA	E006	Mercury, total	mg/L	12/09/15 - 07/15/24	24	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
12	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/15/24	29	0	CB around linear reg	0.00978	0.1	Standard	No Exceedance
12	UA	E006	pH (field)	SU	12/09/15 - 07/15/24	37	0	CI around mean	7.3/7.4	6.5/9.0	Standard/Standard	No Exceedance
12	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/15/24	25	0	CI around geomean	0.364	5	Standard	No Exceedance
12	UA	E006	Selenium, total	mg/L	12/09/15 - 07/15/24	29	60	CI around median	0.001	0.05	Standard	No Exceedance
12	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/15/24	30	0	CI around geomean	63.9	400	Standard	No Exceedance
12	UA	E006	Thallium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.002	0.002	Standard	No Exceedance
12	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/15/24	26	0	CI around mean	467	1,620	Background	No Exceedance
13	UA	E006	Antimony, total	mg/L	12/09/15 - 07/15/24	22	96	CB around T-S line	0.001	0.006	Standard	No Exceedance
13	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/15/24	27	97	CI around median	0.001	0.010	Standard	No Exceedance
13	UA	E006	Barium, total	mg/L	12/09/15 - 07/15/24	29	0	CI around mean	0.0433	2.0	Standard	No Exceedance
13	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.001	0.004	Standard	No Exceedance
13	UA	E006	Boron, total	mg/L	12/09/15 - 07/15/24	30	0	CB around linear reg	0.0308	2	Standard	No Exceedance
13	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/15/24	31	98	CB around T-S line	0.000632	0.005	Standard	No Exceedance
13	UA	E006	Chloride, total	mg/L	12/09/15 - 07/15/24	30	0	CI around mean	73.3	435	Background	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
13	UA	E006	Chromium, total	mg/L	12/09/15 - 07/15/24	27	87	CB around T-S line	0.00173	0.1	Standard	No Exceedance
13	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/15/24	25	84	Most recent sample	0.001	0.0380	Background	No Exceedance
13	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/15/24	30	2	CI around median	0.2	4.0	Standard	No Exceedance
13	UA	E006	Lead, total	mg/L	12/09/15 - 07/15/24	27	97	CB around T-S line	0.00085	0.0075	Standard	No Exceedance
13	UA	E006	Lithium, total	mg/L	12/09/15 - 07/15/24	26	0	CI around mean	0.0159	0.04	Standard	No Exceedance
13	UA	E006	Mercury, total	mg/L	12/09/15 - 07/15/24	24	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
13	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/15/24	29	25	CI around mean	0.0141	0.1	Standard	No Exceedance
13	UA	E006	pH (field)	SU	12/09/15 - 07/15/24	37	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
13	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/15/24	25	0	CI around mean	0.446	5	Standard	No Exceedance
13	UA	E006	Selenium, total	mg/L	12/09/15 - 07/15/24	29	48	CI around mean	0.00134	0.05	Standard	No Exceedance
13	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/15/24	30	0	CI around mean	76.4	400	Standard	No Exceedance
13	UA	E006	Thallium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.002	0.002	Standard	No Exceedance
13	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/15/24	29	0	CI around mean	486	1,620	Background	No Exceedance
46	UA	E006	Antimony, total	mg/L	12/09/15 - 08/06/24	21	100	All ND - Last	0.003	0.006	Standard	No Exceedance
46	UA	E006	Arsenic, total	mg/L	12/09/15 - 08/06/24	23	100	All ND - Last	0.001	0.010	Standard	No Exceedance
46	UA	E006	Barium, total	mg/L	12/09/15 - 08/06/24	25	0	CB around linear reg	0.0659	2.0	Standard	No Exceedance
46	UA	E006	Beryllium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
46	UA	E006	Boron, total	mg/L	12/09/15 - 08/06/24	26	0	CI around mean	0.199	2	Standard	No Exceedance
46	UA	E006	Cadmium, total	mg/L	12/09/15 - 08/06/24	24	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
46	UA	E006	Chloride, total	mg/L	12/09/15 - 08/06/24	26	0	CI around mean	69.9	435	Background	No Exceedance
46	UA	E006	Chromium, total	mg/L	12/09/15 - 08/06/24	23	91	CB around T-S line	0.00167	0.1	Standard	No Exceedance
46	UA	E006	Cobalt, total	mg/L	12/09/15 - 08/06/24	24	100	All ND - Last	0.001	0.0380	Background	No Exceedance
46	UA	E006	Fluoride, total	mg/L	12/09/15 - 08/06/24	26	4	CI around median	0.24	4.0	Standard	No Exceedance
46	UA	E006	Lead, total	mg/L	12/09/15 - 08/06/24	23	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
46	UA	E006	Lithium, total	mg/L	12/09/15 - 08/06/24	25	4	CI around median	0.0088	0.04	Standard	No Exceedance
46	UA	E006	Mercury, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
46	UA	E006	Molybdenum, total	mg/L	12/09/15 - 08/06/24	25	0	CB around T-S line	0.00891	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
46	UA	E006	pH (field)	SU	12/09/15 - 08/06/24	26	0	CB around linear reg	7.1/7.3	6.5/9.0	Standard/Standard	No Exceedance
46	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/06/24	25	0	CI around geomean	0.299	5	Standard	No Exceedance
46	UA	E006	Selenium, total	mg/L	12/09/15 - 08/06/24	25	64	CI around median	0.001	0.05	Standard	No Exceedance
46	UA	E006	Sulfate, total	mg/L	12/09/15 - 08/06/24	26	0	CI around geomean	62.5	400	Standard	No Exceedance
46	UA	E006	Thallium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
46	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 08/06/24	26	0	CB around linear reg	451	1,620	Background	No Exceedance
47	UA	E006	Antimony, total	mg/L	12/09/15 - 08/06/24	21	100	All ND - Last	0.003	0.006	Standard	No Exceedance
47	UA	E006	Arsenic, total	mg/L	12/09/15 - 08/06/24	23	96	CI around median	0.001	0.010	Standard	No Exceedance
47	UA	E006	Barium, total	mg/L	12/09/15 - 08/06/24	25	0	CI around mean	0.0791	2.0	Standard	No Exceedance
47	UA	E006	Beryllium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
47	UA	E006	Boron, total	mg/L	12/09/15 - 08/06/24	26	0	CI around geomean	0.223	2	Standard	No Exceedance
47	UA	E006	Cadmium, total	mg/L	12/09/15 - 08/06/24	24	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
47	UA	E006	Chloride, total	mg/L	12/09/15 - 08/06/24	26	0	CI around mean	73.7	435	Background	No Exceedance
47	UA	E006	Chromium, total	mg/L	12/09/15 - 08/06/24	23	96	CB around T-S line	0.00162	0.1	Standard	No Exceedance
47	UA	E006	Cobalt, total	mg/L	12/09/15 - 08/06/24	24	83	CI around median	0.001	0.0380	Background	No Exceedance
47	UA	E006	Fluoride, total	mg/L	12/09/15 - 08/06/24	26	4	CB around T-S line	0.215	4.0	Standard	No Exceedance
47	UA	E006	Lead, total	mg/L	12/09/15 - 08/06/24	23	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
47	UA	E006	Lithium, total	mg/L	12/09/15 - 08/06/24	25	0	CI around mean	0.00849	0.04	Standard	No Exceedance
47	UA	E006	Mercury, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
47	UA	E006	Molybdenum, total	mg/L	12/09/15 - 08/06/24	25	0	CB around linear reg	0.0139	0.1	Standard	No Exceedance
47	UA	E006	pH (field)	SU	12/09/15 - 08/06/24	26	0	CI around mean	7.0/7.1	6.5/9.0	Standard/Standard	No Exceedance
47	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/06/24	25	0	CI around geomean	0.3	5	Standard	No Exceedance
47	UA	E006	Selenium, total	mg/L	12/09/15 - 08/06/24	24	88	CB around T-S line	0.001	0.05	Standard	No Exceedance
47	UA	E006	Sulfate, total	mg/L	12/09/15 - 08/06/24	26	0	CI around mean	65	400	Standard	No Exceedance
47	UA	E006	Thallium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
47	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 08/06/24	26	0	CI around mean	480	1,620	Background	No Exceedance
52	UA	E006	Antimony, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
52	UA	E006	Arsenic, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.010	Standard	No Exceedance
52	UA	E006	Barium, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	0.0743	2.0	Standard	No Exceedance
52	UA	E006	Beryllium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.004	Standard	No Exceedance
52	UA	E006	Boron, total	mg/L	02/24/21 - 08/06/24	15	0	CI around geomean	0.147	2	Standard	No Exceedance
52	UA	E006	Cadmium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
52	UA	E006	Chloride, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	73	435	Background	No Exceedance
52	UA	E006	Chromium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.005	0.1	Standard	No Exceedance
52	UA	E006	Cobalt, total	mg/L	02/24/21 - 08/06/24	15	93	Most recent sample	0.001	0.0380	Background	No Exceedance
52	UA	E006	Fluoride, total	mg/L	02/24/21 - 08/06/24	15	7	CI around geomean	0.264	4.0	Standard	No Exceedance
52	UA	E006	Lead, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
52	UA	E006	Lithium, total	mg/L	02/24/21 - 08/06/24	15	13	CI around mean	0.00543	0.04	Standard	No Exceedance
52	UA	E006	Mercury, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
52	UA	E006	Molybdenum, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	0.0109	0.1	Standard	No Exceedance
52	UA	E006	pH (field)	SU	02/24/21 - 08/06/24	15	0	CI around mean	7.0/7.3	6.5/9.0	Standard/Standard	No Exceedance
52	UA	E006	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/06/24	15	0	CI around mean	0.413	5	Standard	No Exceedance
52	UA	E006	Selenium, total	mg/L	02/24/21 - 08/06/24	15	93	CB around T-S line	0.001	0.05	Standard	No Exceedance
52	UA	E006	Sulfate, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	60.7	400	Standard	No Exceedance
52	UA	E006	Thallium, total	mg/L	02/24/21 - 08/06/24	15	93	CI around median	0.002	0.002	Standard	No Exceedance
52	UA	E006	Total Dissolved Solids	mg/L	02/24/21 - 08/06/24	14	0	CI around mean	447	1,620	Background	No Exceedance
54	UA	E006	Antimony, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.003	0.006	Standard	No Exceedance
54	UA	E006	Arsenic, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.010	Standard	No Exceedance
54	UA	E006	Barium, total	mg/L	02/24/21 - 08/06/24	15	0	CB around linear reg	0.0389	2.0	Standard	No Exceedance
54	UA	E006	Beryllium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.004	Standard	No Exceedance
54	UA	E006	Boron, total	mg/L	02/24/21 - 08/06/24	15	0	CB around linear reg	0.0633	2	Standard	No Exceedance
54	UA	E006	Cadmium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
54	UA	E006	Chloride, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	77.2	435	Background	No Exceedance
54	UA	E006	Chromium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.005	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
54	UA	E006	Cobalt, total	mg/L	02/24/21 - 08/06/24	15	87	CI around median	0.001	0.0380	Background	No Exceedance
54	UA	E006	Fluoride, total	mg/L	02/24/21 - 08/06/24	15	7	CB around T-S line	0.0288	4.0	Standard	No Exceedance
54	UA	E006	Lead, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
54	UA	E006	Lithium, total	mg/L	02/24/21 - 08/06/24	15	0	CI around median	0.011	0.04	Standard	No Exceedance
54	UA	E006	Mercury, total	mg/L	02/24/21 - 08/06/24	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
54	UA	E006	Molybdenum, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	0.022	0.1	Standard	No Exceedance
54	UA	E006	pH (field)	SU	02/24/21 - 08/06/24	15	0	CI around mean	7.1/7.4	6.5/9.0	Standard/Standard	No Exceedance
54	UA	E006	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/06/24	15	0	CI around geomean	0.123	5	Standard	No Exceedance
54	UA	E006	Selenium, total	mg/L	02/24/21 - 08/06/24	15	53	CB around T-S line	0.00179	0.05	Standard	No Exceedance
54	UA	E006	Sulfate, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	75.7	400	Standard	No Exceedance
54	UA	E006	Thallium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.002	0.002	Standard	No Exceedance
54	UA	E006	Total Dissolved Solids	mg/L	02/24/21 - 08/06/24	13	0	CI around mean	492	1,620	Background	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
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
Missing Code (if applicable):
 NR¹ = Select parameters were not analyzed.
 NS¹ = This well has been, or will be, abandoned; therefore, a sample was not collected.
 NS² = Well either needs or was undergoing maintenance, therefore, a sample was not collected.
 NS³ = A sample was not collected because the location was inaccessible.
 NS⁴ = The location could not be found, therefore a sample was not collected.
 NS⁵ = A sample was not collected because of damage to the well.
 NS⁶ = A sample was not collected because of pump issues.
 NS⁷ = A sample was not collected because the well was either dry or was purged dry and did not recover.
 PM¹ = Select parameters were not analyzed as the well purged dry during sample collection and did not sufficiently recover to sample for all parameters.
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:
 All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown
 CB around T-S line = Confidence band around Thiel-Sen line
 CB around linear reg = Confidence band around linear regression
 CI around geomean = Confidence interval around the geometric mean
 CI around mean = Confidence interval around the mean
 CI around median = Confidence interval around the median
 Most recent sample = Result for the most recently collected sample used due to insufficient data
Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits
GWPS = Groundwater Protection Standard
GWPS Source:
 Background = background concentration
 Standard = standard specified in 35 I.A.C. § 845.600(a)(1)

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
12	UA	E007	Antimony, total	mg/L	12/09/15 - 10/08/24	23	100	All ND - Last	0.003	0.006	Standard	No Exceedance
12	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.001	0.010	Standard	No Exceedance
12	UA	E007	Barium, total	mg/L	12/09/15 - 10/08/24	30	0	CI around mean	0.053	2.0	Standard	No Exceedance
12	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.001	0.004	Standard	No Exceedance
12	UA	E007	Boron, total	mg/L	12/09/15 - 10/08/24	31	0	CB around T-S line	0.0367	2	Standard	No Exceedance
12	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/08/24	32	91	CB around T-S line	0.000582	0.005	Standard	No Exceedance
12	UA	E007	Chloride, total	mg/L	12/09/15 - 10/08/24	31	0	CI around mean	70.6	435	Background	No Exceedance
12	UA	E007	Chromium, total	mg/L	12/09/15 - 10/08/24	28	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
12	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/08/24	26	84	Most recent sample	0.001	0.0380	Background	No Exceedance
12	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/08/24	31	2	CI around median	0.23	4.0	Standard	No Exceedance
12	UA	E007	Lead, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
12	UA	E007	Lithium, total	mg/L	12/09/15 - 10/08/24	27	4	CB around linear reg	0.00605	0.04	Standard	No Exceedance
12	UA	E007	Mercury, total	mg/L	12/09/15 - 10/08/24	25	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
12	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/08/24	30	0	CB around linear reg	0.00935	0.1	Standard	No Exceedance
12	UA	E007	pH (field)	SU	12/09/15 - 10/08/24	38	0	CI around mean	7.3/7.4	6.5/9.0	Standard/Standard	No Exceedance
12	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	26	0	CI around geomean	0.376	5	Standard	No Exceedance
12	UA	E007	Selenium, total	mg/L	12/09/15 - 10/08/24	30	61	CI around median	0.001	0.05	Standard	No Exceedance
12	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/08/24	31	0	CI around geomean	63.8	400	Standard	No Exceedance
12	UA	E007	Thallium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.002	0.002	Standard	No Exceedance
12	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/08/24	27	0	CI around mean	467	1,620	Background	No Exceedance
13	UA	E007	Antimony, total	mg/L	12/09/15 - 10/08/24	23	97	CB around T-S line	0.001	0.006	Standard	No Exceedance
13	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/08/24	28	97	CI around median	0.001	0.010	Standard	No Exceedance
13	UA	E007	Barium, total	mg/L	12/09/15 - 10/08/24	30	0	CI around mean	0.0433	2.0	Standard	No Exceedance
13	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.001	0.004	Standard	No Exceedance
13	UA	E007	Boron, total	mg/L	12/09/15 - 10/08/24	31	0	CB around linear reg	0.00209	2	Standard	No Exceedance
13	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/08/24	32	98	CB around T-S line	0.000582	0.005	Standard	No Exceedance
13	UA	E007	Chloride, total	mg/L	12/09/15 - 10/08/24	31	0	CI around mean	72.9	435	Background	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
13	UA	E007	Chromium, total	mg/L	12/09/15 - 10/08/24	28	87	CB around T-S line	0.00173	0.1	Standard	No Exceedance
13	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/08/24	26	84	Most recent sample	0.001	0.0380	Background	No Exceedance
13	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/08/24	31	2	CI around median	0.2	4.0	Standard	No Exceedance
13	UA	E007	Lead, total	mg/L	12/09/15 - 10/08/24	28	97	CB around T-S line	0.000807	0.0075	Standard	No Exceedance
13	UA	E007	Lithium, total	mg/L	12/09/15 - 10/08/24	27	0	CB around linear reg	0.00953	0.04	Standard	No Exceedance
13	UA	E007	Mercury, total	mg/L	12/09/15 - 10/08/24	25	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
13	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/08/24	30	24	CI around mean	0.0139	0.1	Standard	No Exceedance
13	UA	E007	pH (field)	SU	12/09/15 - 10/08/24	38	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
13	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	26	0	CI around mean	0.461	5	Standard	No Exceedance
13	UA	E007	Selenium, total	mg/L	12/09/15 - 10/08/24	30	49	CI around mean	0.00134	0.05	Standard	No Exceedance
13	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/08/24	31	0	CI around mean	75.4	400	Standard	No Exceedance
13	UA	E007	Thallium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.002	0.002	Standard	No Exceedance
13	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/08/24	30	0	CI around mean	483	1,620	Background	No Exceedance
46	UA	E007	Antimony, total	mg/L	12/09/15 - 10/09/24	22	100	All ND - Last	0.003	0.006	Standard	No Exceedance
46	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/09/24	24	100	All ND - Last	0.001	0.010	Standard	No Exceedance
46	UA	E007	Barium, total	mg/L	12/09/15 - 10/09/24	26	0	CB around linear reg	0.0668	2.0	Standard	No Exceedance
46	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.001	0.004	Standard	No Exceedance
46	UA	E007	Boron, total	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	0.196	2	Standard	No Exceedance
46	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/09/24	25	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
46	UA	E007	Chloride, total	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	70.2	435	Background	No Exceedance
46	UA	E007	Chromium, total	mg/L	12/09/15 - 10/09/24	24	92	CB around T-S line	0.00172	0.1	Standard	No Exceedance
46	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/09/24	25	100	All ND - Last	0.001	0.0380	Background	No Exceedance
46	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/09/24	27	4	CI around median	0.24	4.0	Standard	No Exceedance
46	UA	E007	Lead, total	mg/L	12/09/15 - 10/09/24	24	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
46	UA	E007	Lithium, total	mg/L	12/09/15 - 10/09/24	26	4	CI around mean	0.00861	0.04	Standard	No Exceedance
46	UA	E007	Mercury, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
46	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/09/24	26	0	CB around T-S line	0.0107	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
46	UA	E007	pH (field)	SU	12/09/15 - 10/09/24	27	0	CB around linear reg	7.1/7.3	6.5/9.0	Standard/Standard	No Exceedance
46	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/09/24	26	0	CI around geomean	0.306	5	Standard	No Exceedance
46	UA	E007	Selenium, total	mg/L	12/09/15 - 10/09/24	26	65	CI around median	0.001	0.05	Standard	No Exceedance
46	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/09/24	27	0	CI around geomean	62.5	400	Standard	No Exceedance
46	UA	E007	Thallium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.002	0.002	Standard	No Exceedance
46	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	444	1,620	Background	No Exceedance
47	UA	E007	Antimony, total	mg/L	12/09/15 - 10/09/24	22	100	All ND - Last	0.003	0.006	Standard	No Exceedance
47	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/09/24	24	96	CI around median	0.001	0.010	Standard	No Exceedance
47	UA	E007	Barium, total	mg/L	12/09/15 - 10/09/24	26	0	CI around mean	0.0791	2.0	Standard	No Exceedance
47	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.001	0.004	Standard	No Exceedance
47	UA	E007	Boron, total	mg/L	12/09/15 - 10/09/24	27	0	CI around geomean	0.219	2	Standard	No Exceedance
47	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/09/24	25	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
47	UA	E007	Chloride, total	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	73.6	435	Background	No Exceedance
47	UA	E007	Chromium, total	mg/L	12/09/15 - 10/09/24	24	96	CB around T-S line	0.00181	0.1	Standard	No Exceedance
47	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/09/24	25	84	CI around median	0.001	0.0380	Background	No Exceedance
47	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/09/24	27	4	CB around T-S line	0.213	4.0	Standard	No Exceedance
47	UA	E007	Lead, total	mg/L	12/09/15 - 10/09/24	24	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
47	UA	E007	Lithium, total	mg/L	12/09/15 - 10/09/24	26	0	CI around mean	0.00855	0.04	Standard	No Exceedance
47	UA	E007	Mercury, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
47	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/09/24	26	0	CB around linear reg	0.0144	0.1	Standard	No Exceedance
47	UA	E007	pH (field)	SU	12/09/15 - 10/09/24	27	0	CI around mean	7.0/7.1	6.5/9.0	Standard/Standard	No Exceedance
47	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/09/24	26	0	CI around geomean	0.31	5	Standard	No Exceedance
47	UA	E007	Selenium, total	mg/L	12/09/15 - 10/09/24	25	88	CB around T-S line	0.001	0.05	Standard	No Exceedance
47	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	64.6	400	Standard	No Exceedance
47	UA	E007	Thallium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.002	0.002	Standard	No Exceedance
47	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	479	1,620	Background	No Exceedance
52	UA	E007	Antimony, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
52	UA	E007	Arsenic, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.010	Standard	No Exceedance
52	UA	E007	Barium, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.0755	2.0	Standard	No Exceedance
52	UA	E007	Beryllium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
52	UA	E007	Boron, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.155	2	Standard	No Exceedance
52	UA	E007	Cadmium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
52	UA	E007	Chloride, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	72.9	435	Background	No Exceedance
52	UA	E007	Chromium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.005	0.1	Standard	No Exceedance
52	UA	E007	Cobalt, total	mg/L	02/24/21 - 10/10/24	16	94	Most recent sample	0.001	0.0380	Background	No Exceedance
52	UA	E007	Fluoride, total	mg/L	02/24/21 - 10/10/24	16	6	CI around geomean	0.264	4.0	Standard	No Exceedance
52	UA	E007	Lead, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
52	UA	E007	Lithium, total	mg/L	02/24/21 - 10/10/24	16	12	CI around mean	0.00564	0.04	Standard	No Exceedance
52	UA	E007	Mercury, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
52	UA	E007	Molybdenum, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.0111	0.1	Standard	No Exceedance
52	UA	E007	pH (field)	SU	02/24/21 - 10/10/24	16	0	CI around mean	7.0/7.3	6.5/9.0	Standard/Standard	No Exceedance
52	UA	E007	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 10/10/24	16	0	CI around mean	0.416	5	Standard	No Exceedance
52	UA	E007	Selenium, total	mg/L	02/24/21 - 10/10/24	16	94	CB around T-S line	0.001	0.05	Standard	No Exceedance
52	UA	E007	Sulfate, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	60.9	400	Standard	No Exceedance
52	UA	E007	Thallium, total	mg/L	02/24/21 - 10/10/24	16	94	CI around median	0.002	0.002	Standard	No Exceedance
52	UA	E007	Total Dissolved Solids	mg/L	02/24/21 - 10/10/24	15	0	CI around mean	451	1,620	Background	No Exceedance
54	UA	E007	Antimony, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
54	UA	E007	Arsenic, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.010	Standard	No Exceedance
54	UA	E007	Barium, total	mg/L	02/24/21 - 10/10/24	16	0	CB around linear reg	0.0397	2.0	Standard	No Exceedance
54	UA	E007	Beryllium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
54	UA	E007	Boron, total	mg/L	02/24/21 - 10/10/24	16	0	CB around linear reg	0.0597	2	Standard	No Exceedance
54	UA	E007	Cadmium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
54	UA	E007	Chloride, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	75.4	435	Background	No Exceedance
54	UA	E007	Chromium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.005	0.1	Standard	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
54	UA	E007	Cobalt, total	mg/L	02/24/21 - 10/10/24	16	88	CI around median	0.001	0.0380	Background	No Exceedance
54	UA	E007	Fluoride, total	mg/L	02/24/21 - 10/10/24	16	6	CB around T-S line	0.0699	4.0	Standard	No Exceedance
54	UA	E007	Lead, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
54	UA	E007	Lithium, total	mg/L	02/24/21 - 10/10/24	16	0	CB around T-S line	0.00491	0.04	Standard	No Exceedance
54	UA	E007	Mercury, total	mg/L	02/24/21 - 10/10/24	16	94	CI around median	0.0002	0.002	Standard	No Exceedance
54	UA	E007	Molybdenum, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.0224	0.1	Standard	No Exceedance
54	UA	E007	pH (field)	SU	02/24/21 - 10/10/24	16	0	CI around mean	7.1/7.4	6.5/9.0	Standard/Standard	No Exceedance
54	UA	E007	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 10/10/24	16	0	CI around geomean	0.123	5	Standard	No Exceedance
54	UA	E007	Selenium, total	mg/L	02/24/21 - 10/10/24	16	56	CB around T-S line	0.00194	0.05	Standard	No Exceedance
54	UA	E007	Sulfate, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	73.5	400	Standard	No Exceedance
54	UA	E007	Thallium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.002	0.002	Standard	No Exceedance
54	UA	E007	Total Dissolved Solids	mg/L	02/24/21 - 10/10/24	14	0	CI around mean	489	1,620	Background	No Exceedance

TABLE 2.
EVALUATION OF COMPLIANCE - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Notes:

Compliance Result:

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

Events:

E007 = Quarter 4, 2024 sampling event

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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

Statistical Calculation = method used to calculate the statistical result:

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

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Most recent sample = Result for the most recently collected sample used due to insufficient data

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

Statistical Result Code (if applicable):

NR¹ = Parameter not analyzed.

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

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

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

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

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

NS⁶ = Sampling pump could not yield a sample.

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

NS⁸ = A sample was not collected.

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

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

GWPS Source:

Background = background concentration

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

FIGURES



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

0 175 350
Feet

MONITORING WELL LOCATION
MAP

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
EAST ASH POND

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- COMPLIANCE WELL WITHOUT EXCEEDANCE
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

0 175 350
Feet

GWPS EXCEEDANCE MAP
UPPERMOST AQUIFER
QUARTER 4, 2023 -
QUARTER 4, 2024

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
EAST ASH POND

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



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

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

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP JANUARY 22-23, 2024

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT EAST ASH POND

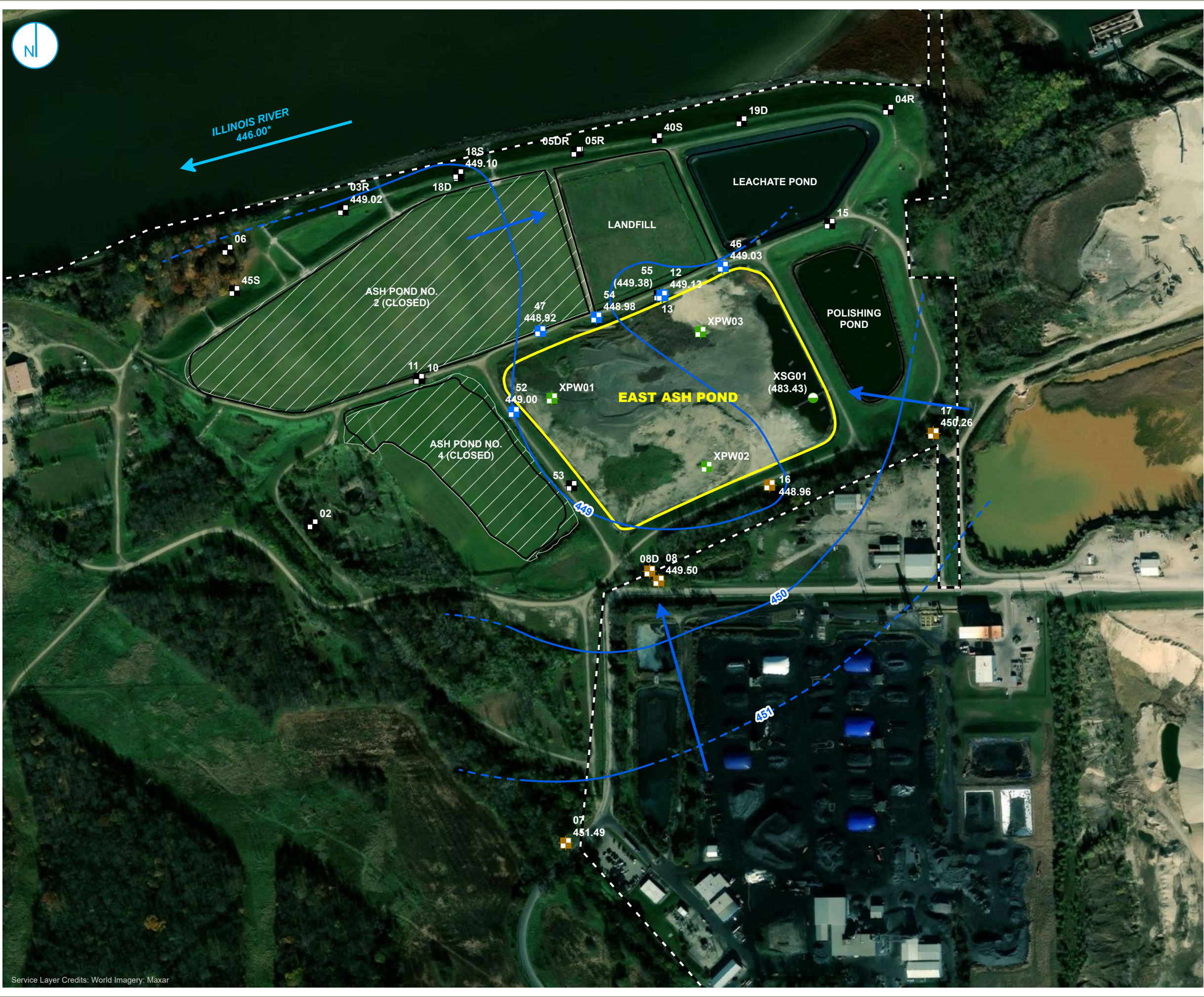
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



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

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

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP FEBRUARY 15, 2024

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT EAST ASH POND

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 4

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



Service Layer Credits: World Imagery: Maxar

PROJECT: 169000XXXX | DATED: 8/1/2024 | DESIGNER: GALARNMC
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- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

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

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP
MARCH 15, 2024

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
EAST ASH POND

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 5

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



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

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

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP APRIL 15-16, 2024

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT EAST ASH POND

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 6

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



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

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

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP
MAY 15, 2024

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
EAST ASH POND

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 7

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



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

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

0 175 350
Feet

**POTENTIOMETRIC SURFACE MAP
JUNE 15, 2024**

**ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
EAST ASH POND**

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 8

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



Service Layer Credits: World Imagery: Maxar

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

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

0 175 350
Feet

**POTENTIOMETRIC SURFACE MAP
JULY 15, 2024**

**ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
EAST ASH POND**

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 9

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



PROJECT: 169000XXXXX | DATED: 12/2/2024 | DESIGNER: PWYSIATKO
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- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

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

0 175 350
Feet

**POTENTIOMETRIC SURFACE MAP
AUGUST 7, 2024**

**ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
EAST ASH POND**

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 10

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



PROJECT: 169000XXXX | DATED: 12/2/2024 | DESIGNER: PWYSIATKO
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- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

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

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP SEPTEMBER 7, 2024

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT EAST ASH POND

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 11

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



PROJECT: 169000XXXX | DATED: 12/2/2024 | DESIGNER: PWYSIATKO
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- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, CCR UNIT
- GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- SITE FEATURE
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

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

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP OCTOBER 7, 2024

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT EAST ASH POND

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 12

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





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

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

0 175 350
Feet

POTENTIOMETRIC SURFACE MAP
NOVEMBER 19, 2024

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
EAST ASH POND

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 13

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





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

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



POTENTIOMETRIC SURFACE MAP
DECEMBER 18-19, 2024

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
EAST ASH POND

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 14

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

ATTACHMENT A
GROUNDWATER ELEVATION DATA

ATTACHMENT A
GROUNDWATER ELEVATION DATA
2024 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

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

ATTACHMENT A
GROUNDWATER ELEVATION DATA
2024 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

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

ATTACHMENT A
GROUNDWATER ELEVATION DATA
2024 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

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

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

Notes:
BMP = below measuring point
Bracketing [] indicates that the measurement was obtained outside of the episodic depth to groundwater measurements time frame.
Depth to Groundwater/Groundwater Elevation Code (if applicable):
DM¹ = Depth to water was not measured.
DM² = Depth to water was not measured because water was above or below the staff gage markings.
DM³ = Depth to water was not measured because the location was inaccessible.
DM⁴ = Depth to water was not measured because water level was below the top of the pump.
DM⁵ = Depth to water was not measured because water level was above the top of casing (artesian well).
DM⁶ = Depth to water was not measured because of damage to the well.
DM⁷ = Depth to water was not measured due to required pressure transducer maintenance.
DM⁸ = Lab provided groundwater elevation data and not depth to water.
NA = not available/not applicable
NAVD88 = North American Vertical Datum of 1988
Monitored Unit Abbreviations:
CCR = coal combustion residuals
SW = surface water
UA = uppermost aquifer

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ATTACHMENT B
COMPARISON TO BACKGROUND

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
12	UA	E004	Antimony, total	mg/L	12/09/15 - 01/24/24	20	100	All ND - Last	0.003	0.001
12	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/24/24	25	100	All ND - Last	0.001	0.001
12	UA	E004	Barium, total	mg/L	12/09/15 - 01/24/24	27	0	CI around mean	0.0521	0.212
12	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.001	0.001
12	UA	E004	Boron, total	mg/L	12/09/15 - 01/24/24	28	0	CB around T-S line	0.0443	0.163
12	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/24/24	29	90	CI around median	0.001	0.00230
12	UA	E004	Chloride, total	mg/L	12/09/15 - 01/24/24	28	0	CI around mean	70.6	435
12	UA	E004	Chromium, total	mg/L	12/09/15 - 01/24/24	25	97	CB around T-S line	0.0015	0.00100
12	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/24/24	23	83	Most recent sample	0.001	0.0380
12	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/24/24	28	3	CI around median	0.23	0.120
12	UA	E004	Lead, total	mg/L	12/09/15 - 01/24/24	25	100	All ND - Last	0.0005	0.00150
12	UA	E004	Lithium, total	mg/L	12/09/15 - 01/24/24	24	4	CB around linear reg	0.0057	0.0190
12	UA	E004	Mercury, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0002	0.0002
12	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/24/24	27	0	CB around linear reg	0.011	0.00170
12	UA	E004	pH (field)	SU	12/09/15 - 01/24/24	35	0	CI around mean	7.3/7.4	6.6/7.5
12	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around mean	0.466	2.00
12	UA	E004	Selenium, total	mg/L	12/09/15 - 01/24/24	27	58	CI around median	0.001	0.00140
12	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/24/24	28	0	CI around geomean	63.7	215
12	UA	E004	Thallium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.002	0.001
12	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	462	1,620
13	UA	E004	Antimony, total	mg/L	12/09/15 - 01/24/24	20	96	CB around T-S line	0.001	0.001
13	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/24/24	25	97	CI around median	0.001	0.001
13	UA	E004	Barium, total	mg/L	12/09/15 - 01/24/24	27	0	CI around mean	0.043	0.212
13	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.001	0.001
13	UA	E004	Boron, total	mg/L	12/09/15 - 01/24/24	28	0	CI around mean	0.569	0.163
13	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/24/24	29	98	CI around median	0.001	0.00230
13	UA	E004	Chloride, total	mg/L	12/09/15 - 01/24/24	28	0	CI around mean	73.6	435

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
13	UA	E004	Chromium, total	mg/L	12/09/15 - 01/24/24	25	86	CB around T-S line	0.00167	0.00100
13	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/24/24	23	83	Most recent sample	0.001	0.0380
13	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/24/24	28	3	CI around median	0.2	0.120
13	UA	E004	Lead, total	mg/L	12/09/15 - 01/24/24	25	97	CI around median	0.001	0.00150
13	UA	E004	Lithium, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	0.0161	0.0190
13	UA	E004	Mercury, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0002	0.0002
13	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/24/24	27	26	CI around mean	0.0146	0.00170
13	UA	E004	pH (field)	SU	12/09/15 - 01/24/24	35	0	CI around mean	7.4/7.5	6.6/7.5
13	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around mean	0.492	2.00
13	UA	E004	Selenium, total	mg/L	12/09/15 - 01/24/24	27	45	CI around mean	0.00135	0.00140
13	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/24/24	28	0	CI around mean	77.2	215
13	UA	E004	Thallium, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.002	0.001
13	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/24/24	27	0	CI around mean	481	1,620
46	UA	E004	Antimony, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.003	0.001
46	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/24/24	21	100	All ND - Last	0.001	0.001
46	UA	E004	Barium, total	mg/L	12/09/15 - 01/24/24	23	0	CB around linear reg	0.0655	0.212
46	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.001	0.001
46	UA	E004	Boron, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	0.196	0.163
46	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0005	0.00230
46	UA	E004	Chloride, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	70.3	435
46	UA	E004	Chromium, total	mg/L	12/09/15 - 01/24/24	21	90	CB around T-S line	0.00162	0.00100
46	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.001	0.0380
46	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/24/24	24	4	CI around median	0.24	0.120
46	UA	E004	Lead, total	mg/L	12/09/15 - 01/24/24	21	100	All ND - Last	0.0005	0.00150
46	UA	E004	Lithium, total	mg/L	12/09/15 - 01/24/24	23	4	CI around median	0.0088	0.0190
46	UA	E004	Mercury, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.0002	0.0002
46	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/24/24	23	0	CB around T-S line	0.00957	0.00170

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
46	UA	E004	pH (field)	SU	12/09/15 - 01/24/24	24	0	CB around linear reg	7.0/7.3	6.6/7.5
46	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around geomean	0.315	2.00
46	UA	E004	Selenium, total	mg/L	12/09/15 - 01/24/24	23	61	CI around median	0.001	0.00140
46	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/24/24	24	0	CI around geomean	62.3	215
46	UA	E004	Thallium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.002	0.001
46	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/24/24	24	0	CB around linear reg	456	1,620
47	UA	E004	Antimony, total	mg/L	12/09/15 - 01/24/24	19	100	All ND - Last	0.003	0.001
47	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/24/24	21	95	CI around median	0.001	0.001
47	UA	E004	Barium, total	mg/L	12/09/15 - 01/24/24	23	0	CB around linear reg	0.0842	0.212
47	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.001	0.001
47	UA	E004	Boron, total	mg/L	12/09/15 - 01/24/24	24	0	CI around geomean	0.218	0.163
47	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/24/24	22	100	All ND - Last	0.0005	0.00230
47	UA	E004	Chloride, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	74.6	435
47	UA	E004	Chromium, total	mg/L	12/09/15 - 01/24/24	21	95	CB around T-S line	0.00158	0.00100
47	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/24/24	22	82	CI around median	0.001	0.0380
47	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/24/24	24	4	CB around T-S line	0.22	0.120
47	UA	E004	Lead, total	mg/L	12/09/15 - 01/24/24	21	100	All ND - Last	0.0005	0.00150
47	UA	E004	Lithium, total	mg/L	12/09/15 - 01/24/24	23	0	CI around mean	0.00832	0.0190
47	UA	E004	Mercury, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.0002	0.0002
47	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/24/24	23	0	CB around linear reg	0.0138	0.00170
47	UA	E004	pH (field)	SU	12/09/15 - 01/24/24	24	0	CI around mean	7.0/7.1	6.6/7.5
47	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/24/24	23	0	CI around mean	0.384	2.00
47	UA	E004	Selenium, total	mg/L	12/09/15 - 01/24/24	22	91	CB around T-S line	0.001	0.00140
47	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	64.3	215
47	UA	E004	Thallium, total	mg/L	12/09/15 - 01/24/24	18	100	All ND - Last	0.002	0.001
47	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/24/24	24	0	CI around mean	478	1,620
52	UA	E004	Antimony, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.003	0.001

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
52	UA	E004	Arsenic, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.001
52	UA	E004	Barium, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.0734	0.212
52	UA	E004	Beryllium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.001
52	UA	E004	Boron, total	mg/L	02/24/21 - 01/24/24	13	0	CI around geomean	0.135	0.163
52	UA	E004	Cadmium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.00230
52	UA	E004	Chloride, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	73.9	435
52	UA	E004	Chromium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.005	0.00100
52	UA	E004	Cobalt, total	mg/L	02/24/21 - 01/24/24	13	92	Most recent sample	0.001	0.0380
52	UA	E004	Fluoride, total	mg/L	02/24/21 - 01/24/24	13	8	CI around geomean	0.26	0.120
52	UA	E004	Lead, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.00150
52	UA	E004	Lithium, total	mg/L	02/24/21 - 01/24/24	13	8	CI around mean	0.00566	0.0190
52	UA	E004	Mercury, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0002	0.0002
52	UA	E004	Molybdenum, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.0105	0.00170
52	UA	E004	pH (field)	SU	02/24/21 - 01/24/24	13	0	CI around mean	7.0/7.4	6.6/7.5
52	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 01/24/24	13	0	CI around mean	0.378	2.00
52	UA	E004	Selenium, total	mg/L	02/24/21 - 01/24/24	13	92	CB around T-S line	0.001	0.00140
52	UA	E004	Sulfate, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	60	215
52	UA	E004	Thallium, total	mg/L	02/24/21 - 01/24/24	13	92	CI around median	0.002	0.001
52	UA	E004	Total Dissolved Solids	mg/L	02/24/21 - 01/24/24	12	0	CI around mean	440	1,620
54	UA	E004	Antimony, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.003	0.001
54	UA	E004	Arsenic, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.001
54	UA	E004	Barium, total	mg/L	02/24/21 - 01/24/24	13	0	CB around linear reg	0.0396	0.212
54	UA	E004	Beryllium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.001	0.001
54	UA	E004	Boron, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.492	0.163
54	UA	E004	Cadmium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.00230
54	UA	E004	Chloride, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	79.7	435
54	UA	E004	Chromium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.005	0.00100

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 1, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
54	UA	E004	Cobalt, total	mg/L	02/24/21 - 01/24/24	13	85	CI around median	0.001	0.0380
54	UA	E004	Fluoride, total	mg/L	02/24/21 - 01/24/24	13	8	CB around T-S line	-0.165	0.120
54	UA	E004	Lead, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0005	0.00150
54	UA	E004	Lithium, total	mg/L	02/24/21 - 01/24/24	13	0	CB around linear reg	0.00869	0.0190
54	UA	E004	Mercury, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.0002	0.0002
54	UA	E004	Molybdenum, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	0.0214	0.00170
54	UA	E004	pH (field)	SU	02/24/21 - 01/24/24	13	0	CI around mean	7.0/7.4	6.6/7.5
54	UA	E004	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 01/24/24	13	0	CI around geomean	0.109	2.00
54	UA	E004	Selenium, total	mg/L	02/24/21 - 01/24/24	13	54	CB around T-S line	0.00151	0.00140
54	UA	E004	Sulfate, total	mg/L	02/24/21 - 01/24/24	13	0	CI around mean	76.5	215
54	UA	E004	Thallium, total	mg/L	02/24/21 - 01/24/24	13	100	All ND - Last	0.002	0.001
54	UA	E004	Total Dissolved Solids	mg/L	02/24/21 - 01/24/24	11	0	CI around mean	490	1,620

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
- Most recent sample = Result for the most recently collected sample used due to insufficient data

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

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
12	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	21	100	All ND - Last	0.003	0.001
12	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.001	0.001
12	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0527	0.212
12	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.001	0.001
12	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	29	0	CB around T-S line	0.0437	0.163
12	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	30	90	CI around median	0.001	0.00230
12	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	70.5	435
12	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	26	97	CB around T-S line	0.0015	0.00100
12	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	24	83	Most recent sample	0.001	0.0380
12	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	29	2	CI around median	0.23	0.120
12	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	26	100	All ND - Last	0.0005	0.00150
12	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	25	4	CB around linear reg	0.00615	0.0190
12	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0002	0.0002
12	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	28	0	CB around linear reg	0.0102	0.00170
12	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	36	0	CI around mean	7.3/7.4	6.6/7.5
12	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.354	2.00
12	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	28	59	CI around median	0.001	0.00140
12	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	64.3	215
12	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.002	0.001
12	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	464	1,620
13	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	21	96	CB around T-S line	0.001	0.001
13	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	26	97	CI around median	0.001	0.001
13	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	0.0433	0.212
13	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.001	0.001
13	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	0.553	0.163
13	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	30	98	CI around median	0.001	0.00230
13	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	73.5	435

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
13	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	26	86	CB around T-S line	0.00171	0.00100
13	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	24	83	Most recent sample	0.001	0.0380
13	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	29	2	CI around median	0.2	0.120
13	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	26	97	CI around median	0.001	0.00150
13	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	0.0162	0.0190
13	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0002	0.0002
13	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	28	26	CI around mean	0.0144	0.00170
13	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	36	0	CI around mean	7.4/7.5	6.6/7.5
13	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around mean	0.464	2.00
13	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	28	46	CI around mean	0.00134	0.00140
13	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	29	0	CI around mean	77.1	215
13	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.002	0.001
13	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	28	0	CI around mean	483	1,620
46	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.003	0.001
46	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.001	0.001
46	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0668	0.212
46	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.001	0.001
46	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	0.2	0.163
46	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0005	0.00230
46	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	70.1	435
46	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	22	91	CB around T-S line	0.0015	0.00100
46	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.001	0.0380
46	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	25	4	CI around median	0.23	0.120
46	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.0005	0.00150
46	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	24	4	CI around median	0.0089	0.0190
46	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.0002	0.0002
46	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	24	0	CB around T-S line	0.0106	0.00170

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
46	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	25	0	CB around linear reg	7.0/7.3	6.6/7.5
46	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.319	2.00
46	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	24	62	CI around median	0.001	0.00140
46	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	25	0	CI around geomean	62.8	215
46	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.002	0.001
46	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CB around linear reg	463	1,620
47	UA	E005	Antimony, total	mg/L	12/09/15 - 04/15/24	20	100	All ND - Last	0.003	0.001
47	UA	E005	Arsenic, total	mg/L	12/09/15 - 04/15/24	22	96	CI around median	0.001	0.001
47	UA	E005	Barium, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0848	0.212
47	UA	E005	Beryllium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.001	0.001
47	UA	E005	Boron, total	mg/L	12/09/15 - 04/15/24	25	0	CI around geomean	0.219	0.163
47	UA	E005	Cadmium, total	mg/L	12/09/15 - 04/15/24	23	100	All ND - Last	0.0005	0.00230
47	UA	E005	Chloride, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	74.2	435
47	UA	E005	Chromium, total	mg/L	12/09/15 - 04/15/24	22	96	CB around T-S line	0.00128	0.00100
47	UA	E005	Cobalt, total	mg/L	12/09/15 - 04/15/24	23	83	CI around median	0.001	0.0380
47	UA	E005	Fluoride, total	mg/L	12/09/15 - 04/15/24	25	4	CB around T-S line	0.217	0.120
47	UA	E005	Lead, total	mg/L	12/09/15 - 04/15/24	22	100	All ND - Last	0.0005	0.00150
47	UA	E005	Lithium, total	mg/L	12/09/15 - 04/15/24	24	0	CI around mean	0.00843	0.0190
47	UA	E005	Mercury, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.0002	0.0002
47	UA	E005	Molybdenum, total	mg/L	12/09/15 - 04/15/24	24	0	CB around linear reg	0.0137	0.00170
47	UA	E005	pH (field)	SU	12/09/15 - 04/15/24	25	0	CI around mean	7.0/7.1	6.6/7.5
47	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 04/15/24	24	0	CI around geomean	0.317	2.00
47	UA	E005	Selenium, total	mg/L	12/09/15 - 04/15/24	23	87	CB around T-S line	0.001	0.00140
47	UA	E005	Sulfate, total	mg/L	12/09/15 - 04/15/24	25	0	CI around mean	64.6	215
47	UA	E005	Thallium, total	mg/L	12/09/15 - 04/15/24	19	100	All ND - Last	0.002	0.001
47	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 04/15/24	25	0	CB around linear reg	501	1,620
52	UA	E005	Antimony, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.003	0.001

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
52	UA	E005	Arsenic, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.001
52	UA	E005	Barium, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0738	0.212
52	UA	E005	Beryllium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.001
52	UA	E005	Boron, total	mg/L	02/24/21 - 04/16/24	14	0	CI around geomean	0.141	0.163
52	UA	E005	Cadmium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.00230
52	UA	E005	Chloride, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	73.4	435
52	UA	E005	Chromium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.005	0.00100
52	UA	E005	Cobalt, total	mg/L	02/24/21 - 04/16/24	14	93	Most recent sample	0.001	0.0380
52	UA	E005	Fluoride, total	mg/L	02/24/21 - 04/16/24	14	7	CI around geomean	0.264	0.120
52	UA	E005	Lead, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.00150
52	UA	E005	Lithium, total	mg/L	02/24/21 - 04/16/24	14	14	CI around mean	0.00519	0.0190
52	UA	E005	Mercury, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0002	0.0002
52	UA	E005	Molybdenum, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0107	0.00170
52	UA	E005	pH (field)	SU	02/24/21 - 04/16/24	14	0	CI around mean	7.0/7.3	6.6/7.5
52	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 04/16/24	14	0	CI around mean	0.429	2.00
52	UA	E005	Selenium, total	mg/L	02/24/21 - 04/16/24	14	93	CB around T-S line	0.001	0.00140
52	UA	E005	Sulfate, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	60.8	215
52	UA	E005	Thallium, total	mg/L	02/24/21 - 04/16/24	14	93	CI around median	0.002	0.001
52	UA	E005	Total Dissolved Solids	mg/L	02/24/21 - 04/16/24	13	0	CI around mean	447	1,620
54	UA	E005	Antimony, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.003	0.001
54	UA	E005	Arsenic, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.001
54	UA	E005	Barium, total	mg/L	02/24/21 - 04/16/24	14	0	CB around linear reg	0.0409	0.212
54	UA	E005	Beryllium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.001	0.001
54	UA	E005	Boron, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.5	0.163
54	UA	E005	Cadmium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.00230
54	UA	E005	Chloride, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	78.4	435
54	UA	E005	Chromium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.005	0.00100

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
54	UA	E005	Cobalt, total	mg/L	02/24/21 - 04/16/24	14	86	CI around median	0.001	0.0380
54	UA	E005	Fluoride, total	mg/L	02/24/21 - 04/16/24	14	7	CB around T-S line	-0.242	0.120
54	UA	E005	Lead, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.0005	0.00150
54	UA	E005	Lithium, total	mg/L	02/24/21 - 04/16/24	14	0	CI around median	0.012	0.0190
54	UA	E005	Mercury, total	mg/L	02/24/21 - 04/16/24	14	93	CI around median	0.0002	0.0002
54	UA	E005	Molybdenum, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	0.0217	0.00170
54	UA	E005	pH (field)	SU	02/24/21 - 04/16/24	14	0	CI around mean	7.0/7.4	6.6/7.5
54	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 04/16/24	14	0	CI around mean	0.187	2.00
54	UA	E005	Selenium, total	mg/L	02/24/21 - 04/16/24	14	50	CB around linear reg	0.00195	0.00140
54	UA	E005	Sulfate, total	mg/L	02/24/21 - 04/16/24	14	0	CI around mean	77.4	215
54	UA	E005	Thallium, total	mg/L	02/24/21 - 04/16/24	14	100	All ND - Last	0.002	0.001
54	UA	E005	Total Dissolved Solids	mg/L	02/24/21 - 04/16/24	12	0	CI around mean	494	1,620

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
- Most recent sample = Result for the most recently collected sample used due to insufficient data

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

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
12	UA	E006	Antimony, total	mg/L	12/09/15 - 07/15/24	22	100	All ND - Last	0.003	0.001
12	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/15/24	27	100	All ND - Last	0.001	0.001
12	UA	E006	Barium, total	mg/L	12/09/15 - 07/15/24	29	0	CI around mean	0.0529	0.212
12	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.001	0.001
12	UA	E006	Boron, total	mg/L	12/09/15 - 07/15/24	30	0	CB around T-S line	0.0369	0.163
12	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/15/24	31	90	CB around T-S line	0.000632	0.00230
12	UA	E006	Chloride, total	mg/L	12/09/15 - 07/15/24	30	0	CI around mean	70.4	435
12	UA	E006	Chromium, total	mg/L	12/09/15 - 07/15/24	27	97	CB around T-S line	0.00153	0.00100
12	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/15/24	25	84	Most recent sample	0.001	0.0380
12	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/15/24	30	2	CI around median	0.23	0.120
12	UA	E006	Lead, total	mg/L	12/09/15 - 07/15/24	27	100	All ND - Last	0.0005	0.00150
12	UA	E006	Lithium, total	mg/L	12/09/15 - 07/15/24	26	4	CB around linear reg	0.00605	0.0190
12	UA	E006	Mercury, total	mg/L	12/09/15 - 07/15/24	24	100	All ND - Last	0.0002	0.0002
12	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/15/24	29	0	CB around linear reg	0.00978	0.00170
12	UA	E006	pH (field)	SU	12/09/15 - 07/15/24	37	0	CI around mean	7.3/7.4	6.6/7.5
12	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/15/24	25	0	CI around geomean	0.364	2.00
12	UA	E006	Selenium, total	mg/L	12/09/15 - 07/15/24	29	60	CI around median	0.001	0.00140
12	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/15/24	30	0	CI around geomean	63.9	215
12	UA	E006	Thallium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.002	0.001
12	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/15/24	26	0	CI around mean	467	1,620
13	UA	E006	Antimony, total	mg/L	12/09/15 - 07/15/24	22	96	CB around T-S line	0.001	0.001
13	UA	E006	Arsenic, total	mg/L	12/09/15 - 07/15/24	27	97	CI around median	0.001	0.001
13	UA	E006	Barium, total	mg/L	12/09/15 - 07/15/24	29	0	CI around mean	0.0433	0.212
13	UA	E006	Beryllium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.001	0.001
13	UA	E006	Boron, total	mg/L	12/09/15 - 07/15/24	30	0	CB around linear reg	0.0308	0.163
13	UA	E006	Cadmium, total	mg/L	12/09/15 - 07/15/24	31	98	CB around T-S line	0.000632	0.00230
13	UA	E006	Chloride, total	mg/L	12/09/15 - 07/15/24	30	0	CI around mean	73.3	435

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
13	UA	E006	Chromium, total	mg/L	12/09/15 - 07/15/24	27	87	CB around T-S line	0.00173	0.00100
13	UA	E006	Cobalt, total	mg/L	12/09/15 - 07/15/24	25	84	Most recent sample	0.001	0.0380
13	UA	E006	Fluoride, total	mg/L	12/09/15 - 07/15/24	30	2	CI around median	0.2	0.120
13	UA	E006	Lead, total	mg/L	12/09/15 - 07/15/24	27	97	CB around T-S line	0.00085	0.00150
13	UA	E006	Lithium, total	mg/L	12/09/15 - 07/15/24	26	0	CI around mean	0.0159	0.0190
13	UA	E006	Mercury, total	mg/L	12/09/15 - 07/15/24	24	100	All ND - Last	0.0002	0.0002
13	UA	E006	Molybdenum, total	mg/L	12/09/15 - 07/15/24	29	25	CI around mean	0.0141	0.00170
13	UA	E006	pH (field)	SU	12/09/15 - 07/15/24	37	0	CI around mean	7.4/7.5	6.6/7.5
13	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 07/15/24	25	0	CI around mean	0.446	2.00
13	UA	E006	Selenium, total	mg/L	12/09/15 - 07/15/24	29	48	CI around mean	0.00134	0.00140
13	UA	E006	Sulfate, total	mg/L	12/09/15 - 07/15/24	30	0	CI around mean	76.4	215
13	UA	E006	Thallium, total	mg/L	12/09/15 - 07/15/24	21	100	All ND - Last	0.002	0.001
13	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 07/15/24	29	0	CI around mean	486	1,620
46	UA	E006	Antimony, total	mg/L	12/09/15 - 08/06/24	21	100	All ND - Last	0.003	0.001
46	UA	E006	Arsenic, total	mg/L	12/09/15 - 08/06/24	23	100	All ND - Last	0.001	0.001
46	UA	E006	Barium, total	mg/L	12/09/15 - 08/06/24	25	0	CB around linear reg	0.0659	0.212
46	UA	E006	Beryllium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.001	0.001
46	UA	E006	Boron, total	mg/L	12/09/15 - 08/06/24	26	0	CI around mean	0.199	0.163
46	UA	E006	Cadmium, total	mg/L	12/09/15 - 08/06/24	24	100	All ND - Last	0.0005	0.00230
46	UA	E006	Chloride, total	mg/L	12/09/15 - 08/06/24	26	0	CI around mean	69.9	435
46	UA	E006	Chromium, total	mg/L	12/09/15 - 08/06/24	23	91	CB around T-S line	0.00167	0.00100
46	UA	E006	Cobalt, total	mg/L	12/09/15 - 08/06/24	24	100	All ND - Last	0.001	0.0380
46	UA	E006	Fluoride, total	mg/L	12/09/15 - 08/06/24	26	4	CI around median	0.24	0.120
46	UA	E006	Lead, total	mg/L	12/09/15 - 08/06/24	23	100	All ND - Last	0.0005	0.00150
46	UA	E006	Lithium, total	mg/L	12/09/15 - 08/06/24	25	4	CI around median	0.0088	0.0190
46	UA	E006	Mercury, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.0002	0.0002
46	UA	E006	Molybdenum, total	mg/L	12/09/15 - 08/06/24	25	0	CB around T-S line	0.00891	0.00170

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
46	UA	E006	pH (field)	SU	12/09/15 - 08/06/24	26	0	CB around linear reg	7.1/7.3	6.6/7.5
46	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/06/24	25	0	CI around geomean	0.299	2.00
46	UA	E006	Selenium, total	mg/L	12/09/15 - 08/06/24	25	64	CI around median	0.001	0.00140
46	UA	E006	Sulfate, total	mg/L	12/09/15 - 08/06/24	26	0	CI around geomean	62.5	215
46	UA	E006	Thallium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.002	0.001
46	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 08/06/24	26	0	CB around linear reg	451	1,620
47	UA	E006	Antimony, total	mg/L	12/09/15 - 08/06/24	21	100	All ND - Last	0.003	0.001
47	UA	E006	Arsenic, total	mg/L	12/09/15 - 08/06/24	23	96	CI around median	0.001	0.001
47	UA	E006	Barium, total	mg/L	12/09/15 - 08/06/24	25	0	CI around mean	0.0791	0.212
47	UA	E006	Beryllium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.001	0.001
47	UA	E006	Boron, total	mg/L	12/09/15 - 08/06/24	26	0	CI around geomean	0.223	0.163
47	UA	E006	Cadmium, total	mg/L	12/09/15 - 08/06/24	24	100	All ND - Last	0.0005	0.00230
47	UA	E006	Chloride, total	mg/L	12/09/15 - 08/06/24	26	0	CI around mean	73.7	435
47	UA	E006	Chromium, total	mg/L	12/09/15 - 08/06/24	23	96	CB around T-S line	0.00162	0.00100
47	UA	E006	Cobalt, total	mg/L	12/09/15 - 08/06/24	24	83	CI around median	0.001	0.0380
47	UA	E006	Fluoride, total	mg/L	12/09/15 - 08/06/24	26	4	CB around T-S line	0.215	0.120
47	UA	E006	Lead, total	mg/L	12/09/15 - 08/06/24	23	100	All ND - Last	0.0005	0.00150
47	UA	E006	Lithium, total	mg/L	12/09/15 - 08/06/24	25	0	CI around mean	0.00849	0.0190
47	UA	E006	Mercury, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.0002	0.0002
47	UA	E006	Molybdenum, total	mg/L	12/09/15 - 08/06/24	25	0	CB around linear reg	0.0139	0.00170
47	UA	E006	pH (field)	SU	12/09/15 - 08/06/24	26	0	CI around mean	7.0/7.1	6.6/7.5
47	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/06/24	25	0	CI around geomean	0.3	2.00
47	UA	E006	Selenium, total	mg/L	12/09/15 - 08/06/24	24	88	CB around T-S line	0.001	0.00140
47	UA	E006	Sulfate, total	mg/L	12/09/15 - 08/06/24	26	0	CI around mean	65	215
47	UA	E006	Thallium, total	mg/L	12/09/15 - 08/06/24	20	100	All ND - Last	0.002	0.001
47	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 08/06/24	26	0	CI around mean	480	1,620
52	UA	E006	Antimony, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.003	0.001

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
52	UA	E006	Arsenic, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.001
52	UA	E006	Barium, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	0.0743	0.212
52	UA	E006	Beryllium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.001
52	UA	E006	Boron, total	mg/L	02/24/21 - 08/06/24	15	0	CI around geomean	0.147	0.163
52	UA	E006	Cadmium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.00230
52	UA	E006	Chloride, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	73	435
52	UA	E006	Chromium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.005	0.00100
52	UA	E006	Cobalt, total	mg/L	02/24/21 - 08/06/24	15	93	Most recent sample	0.001	0.0380
52	UA	E006	Fluoride, total	mg/L	02/24/21 - 08/06/24	15	7	CI around geomean	0.264	0.120
52	UA	E006	Lead, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.00150
52	UA	E006	Lithium, total	mg/L	02/24/21 - 08/06/24	15	13	CI around mean	0.00543	0.0190
52	UA	E006	Mercury, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0002	0.0002
52	UA	E006	Molybdenum, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	0.0109	0.00170
52	UA	E006	pH (field)	SU	02/24/21 - 08/06/24	15	0	CI around mean	7.0/7.3	6.6/7.5
52	UA	E006	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/06/24	15	0	CI around mean	0.413	2.00
52	UA	E006	Selenium, total	mg/L	02/24/21 - 08/06/24	15	93	CB around T-S line	0.001	0.00140
52	UA	E006	Sulfate, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	60.7	215
52	UA	E006	Thallium, total	mg/L	02/24/21 - 08/06/24	15	93	CI around median	0.002	0.001
52	UA	E006	Total Dissolved Solids	mg/L	02/24/21 - 08/06/24	14	0	CI around mean	447	1,620
54	UA	E006	Antimony, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.003	0.001
54	UA	E006	Arsenic, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.001
54	UA	E006	Barium, total	mg/L	02/24/21 - 08/06/24	15	0	CB around linear reg	0.0389	0.212
54	UA	E006	Beryllium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.001	0.001
54	UA	E006	Boron, total	mg/L	02/24/21 - 08/06/24	15	0	CB around linear reg	0.0633	0.163
54	UA	E006	Cadmium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.00230
54	UA	E006	Chloride, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	77.2	435
54	UA	E006	Chromium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.005	0.00100

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 3, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
54	UA	E006	Cobalt, total	mg/L	02/24/21 - 08/06/24	15	87	CI around median	0.001	0.0380
54	UA	E006	Fluoride, total	mg/L	02/24/21 - 08/06/24	15	7	CB around T-S line	0.0288	0.120
54	UA	E006	Lead, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.0005	0.00150
54	UA	E006	Lithium, total	mg/L	02/24/21 - 08/06/24	15	0	CI around median	0.011	0.0190
54	UA	E006	Mercury, total	mg/L	02/24/21 - 08/06/24	15	93	CI around median	0.0002	0.0002
54	UA	E006	Molybdenum, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	0.022	0.00170
54	UA	E006	pH (field)	SU	02/24/21 - 08/06/24	15	0	CI around mean	7.1/7.4	6.6/7.5
54	UA	E006	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 08/06/24	15	0	CI around geomean	0.123	2.00
54	UA	E006	Selenium, total	mg/L	02/24/21 - 08/06/24	15	53	CB around T-S line	0.00179	0.00140
54	UA	E006	Sulfate, total	mg/L	02/24/21 - 08/06/24	15	0	CI around mean	75.7	215
54	UA	E006	Thallium, total	mg/L	02/24/21 - 08/06/24	15	100	All ND - Last	0.002	0.001
54	UA	E006	Total Dissolved Solids	mg/L	02/24/21 - 08/06/24	13	0	CI around mean	492	1,620

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
Missing Code (if applicable):
 NR¹ = Select parameters were not analyzed.
 NS¹ = This well has been, or will be, abandoned; therefore, a sample was not collected.
 NS² = Well either needs or was undergoing maintenance, therefore, a sample was not collected.
 NS³ = A sample was not collected because the location was inaccessible.
 NS⁴ = The location could not be found, therefore a sample was not collected.
 NS⁵ = A sample was not collected because of damage to the well.
 NS⁶ = A sample was not collected because of pump issues.
 NS⁷ = A sample was not collected because the well was either dry or was purged dry and did not recover.
 PM¹ = Select parameters were not analyzed as the well purged dry during sample collection and did not sufficiently recover to sample for all parameters.
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:
 All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown
 CB around T-S line = Confidence band around Thiel-Sen line
 CB around linear reg = Confidence band around linear regression
 CI around geomean = Confidence interval around the geometric mean
 CI around mean = Confidence interval around the mean
 CI around median = Confidence interval around the median
 Most recent sample = Result for the most recently collected sample used due to insufficient data
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

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
845 QUARTERLY REPORT
HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
12	UA	E007	Antimony, total	mg/L	12/09/15 - 10/08/24	23	100	All ND - Last	0.003	0.001
12	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.001	0.001
12	UA	E007	Barium, total	mg/L	12/09/15 - 10/08/24	30	0	CI around mean	0.053	0.212
12	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.001	0.001
12	UA	E007	Boron, total	mg/L	12/09/15 - 10/08/24	31	0	CB around T-S line	0.0367	0.163
12	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/08/24	32	91	CB around T-S line	0.000582	0.00230
12	UA	E007	Chloride, total	mg/L	12/09/15 - 10/08/24	31	0	CI around mean	70.6	435
12	UA	E007	Chromium, total	mg/L	12/09/15 - 10/08/24	28	97	CB around T-S line	0.0015	0.00100
12	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/08/24	26	84	Most recent sample	0.001	0.0380
12	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/08/24	31	2	CI around median	0.23	0.120
12	UA	E007	Lead, total	mg/L	12/09/15 - 10/08/24	28	100	All ND - Last	0.0005	0.00150
12	UA	E007	Lithium, total	mg/L	12/09/15 - 10/08/24	27	4	CB around linear reg	0.00605	0.0190
12	UA	E007	Mercury, total	mg/L	12/09/15 - 10/08/24	25	100	All ND - Last	0.0002	0.0002
12	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/08/24	30	0	CB around linear reg	0.00935	0.00170
12	UA	E007	pH (field)	SU	12/09/15 - 10/08/24	38	0	CI around mean	7.3/7.4	6.6/7.5
12	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	26	0	CI around geomean	0.376	2.00
12	UA	E007	Selenium, total	mg/L	12/09/15 - 10/08/24	30	61	CI around median	0.001	0.00140
12	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/08/24	31	0	CI around geomean	63.8	215
12	UA	E007	Thallium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.002	0.001
12	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/08/24	27	0	CI around mean	467	1,620
13	UA	E007	Antimony, total	mg/L	12/09/15 - 10/08/24	23	97	CB around T-S line	0.001	0.001
13	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/08/24	28	97	CI around median	0.001	0.001
13	UA	E007	Barium, total	mg/L	12/09/15 - 10/08/24	30	0	CI around mean	0.0433	0.212
13	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.001	0.001
13	UA	E007	Boron, total	mg/L	12/09/15 - 10/08/24	31	0	CB around linear reg	0.00209	0.163
13	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/08/24	32	98	CB around T-S line	0.000582	0.00230
13	UA	E007	Chloride, total	mg/L	12/09/15 - 10/08/24	31	0	CI around mean	72.9	435

ATTACHMENT B.
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HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
13	UA	E007	Chromium, total	mg/L	12/09/15 - 10/08/24	28	87	CB around T-S line	0.00173	0.00100
13	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/08/24	26	84	Most recent sample	0.001	0.0380
13	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/08/24	31	2	CI around median	0.2	0.120
13	UA	E007	Lead, total	mg/L	12/09/15 - 10/08/24	28	97	CB around T-S line	0.000807	0.00150
13	UA	E007	Lithium, total	mg/L	12/09/15 - 10/08/24	27	0	CB around linear reg	0.00953	0.0190
13	UA	E007	Mercury, total	mg/L	12/09/15 - 10/08/24	25	100	All ND - Last	0.0002	0.0002
13	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/08/24	30	24	CI around mean	0.0139	0.00170
13	UA	E007	pH (field)	SU	12/09/15 - 10/08/24	38	0	CI around mean	7.4/7.5	6.6/7.5
13	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	26	0	CI around mean	0.461	2.00
13	UA	E007	Selenium, total	mg/L	12/09/15 - 10/08/24	30	49	CI around mean	0.00134	0.00140
13	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/08/24	31	0	CI around mean	75.4	215
13	UA	E007	Thallium, total	mg/L	12/09/15 - 10/08/24	22	100	All ND - Last	0.002	0.001
13	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/08/24	30	0	CI around mean	483	1,620
46	UA	E007	Antimony, total	mg/L	12/09/15 - 10/09/24	22	100	All ND - Last	0.003	0.001
46	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/09/24	24	100	All ND - Last	0.001	0.001
46	UA	E007	Barium, total	mg/L	12/09/15 - 10/09/24	26	0	CB around linear reg	0.0668	0.212
46	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.001	0.001
46	UA	E007	Boron, total	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	0.196	0.163
46	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/09/24	25	100	All ND - Last	0.0005	0.00230
46	UA	E007	Chloride, total	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	70.2	435
46	UA	E007	Chromium, total	mg/L	12/09/15 - 10/09/24	24	92	CB around T-S line	0.00172	0.00100
46	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/09/24	25	100	All ND - Last	0.001	0.0380
46	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/09/24	27	4	CI around median	0.24	0.120
46	UA	E007	Lead, total	mg/L	12/09/15 - 10/09/24	24	100	All ND - Last	0.0005	0.00150
46	UA	E007	Lithium, total	mg/L	12/09/15 - 10/09/24	26	4	CI around mean	0.00861	0.0190
46	UA	E007	Mercury, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.0002	0.0002
46	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/09/24	26	0	CB around T-S line	0.0107	0.00170

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
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HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
46	UA	E007	pH (field)	SU	12/09/15 - 10/09/24	27	0	CB around linear reg	7.1/7.3	6.6/7.5
46	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/09/24	26	0	CI around geomean	0.306	2.00
46	UA	E007	Selenium, total	mg/L	12/09/15 - 10/09/24	26	65	CI around median	0.001	0.00140
46	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/09/24	27	0	CI around geomean	62.5	215
46	UA	E007	Thallium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.002	0.001
46	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	444	1,620
47	UA	E007	Antimony, total	mg/L	12/09/15 - 10/09/24	22	100	All ND - Last	0.003	0.001
47	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/09/24	24	96	CI around median	0.001	0.001
47	UA	E007	Barium, total	mg/L	12/09/15 - 10/09/24	26	0	CI around mean	0.0791	0.212
47	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.001	0.001
47	UA	E007	Boron, total	mg/L	12/09/15 - 10/09/24	27	0	CI around geomean	0.219	0.163
47	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/09/24	25	100	All ND - Last	0.0005	0.00230
47	UA	E007	Chloride, total	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	73.6	435
47	UA	E007	Chromium, total	mg/L	12/09/15 - 10/09/24	24	96	CB around T-S line	0.00181	0.00100
47	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/09/24	25	84	CI around median	0.001	0.0380
47	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/09/24	27	4	CB around T-S line	0.213	0.120
47	UA	E007	Lead, total	mg/L	12/09/15 - 10/09/24	24	100	All ND - Last	0.0005	0.00150
47	UA	E007	Lithium, total	mg/L	12/09/15 - 10/09/24	26	0	CI around mean	0.00855	0.0190
47	UA	E007	Mercury, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.0002	0.0002
47	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/09/24	26	0	CB around linear reg	0.0144	0.00170
47	UA	E007	pH (field)	SU	12/09/15 - 10/09/24	27	0	CI around mean	7.0/7.1	6.6/7.5
47	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/09/24	26	0	CI around geomean	0.31	2.00
47	UA	E007	Selenium, total	mg/L	12/09/15 - 10/09/24	25	88	CB around T-S line	0.001	0.00140
47	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	64.6	215
47	UA	E007	Thallium, total	mg/L	12/09/15 - 10/09/24	21	100	All ND - Last	0.002	0.001
47	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/09/24	27	0	CI around mean	479	1,620
52	UA	E007	Antimony, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.003	0.001

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
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HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
52	UA	E007	Arsenic, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.001
52	UA	E007	Barium, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.0755	0.212
52	UA	E007	Beryllium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.001
52	UA	E007	Boron, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.155	0.163
52	UA	E007	Cadmium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.00230
52	UA	E007	Chloride, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	72.9	435
52	UA	E007	Chromium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.005	0.00100
52	UA	E007	Cobalt, total	mg/L	02/24/21 - 10/10/24	16	94	Most recent sample	0.001	0.0380
52	UA	E007	Fluoride, total	mg/L	02/24/21 - 10/10/24	16	6	CI around geomean	0.264	0.120
52	UA	E007	Lead, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.00150
52	UA	E007	Lithium, total	mg/L	02/24/21 - 10/10/24	16	12	CI around mean	0.00564	0.0190
52	UA	E007	Mercury, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0002	0.0002
52	UA	E007	Molybdenum, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.0111	0.00170
52	UA	E007	pH (field)	SU	02/24/21 - 10/10/24	16	0	CI around mean	7.0/7.3	6.6/7.5
52	UA	E007	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 10/10/24	16	0	CI around mean	0.416	2.00
52	UA	E007	Selenium, total	mg/L	02/24/21 - 10/10/24	16	94	CB around T-S line	0.001	0.00140
52	UA	E007	Sulfate, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	60.9	215
52	UA	E007	Thallium, total	mg/L	02/24/21 - 10/10/24	16	94	CI around median	0.002	0.001
52	UA	E007	Total Dissolved Solids	mg/L	02/24/21 - 10/10/24	15	0	CI around mean	451	1,620
54	UA	E007	Antimony, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.003	0.001
54	UA	E007	Arsenic, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.001
54	UA	E007	Barium, total	mg/L	02/24/21 - 10/10/24	16	0	CB around linear reg	0.0397	0.212
54	UA	E007	Beryllium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.001	0.001
54	UA	E007	Boron, total	mg/L	02/24/21 - 10/10/24	16	0	CB around linear reg	0.0597	0.163
54	UA	E007	Cadmium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.00230
54	UA	E007	Chloride, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	75.4	435
54	UA	E007	Chromium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.005	0.00100

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HENNEPIN POWER PLANT
EAST ASH POND
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
54	UA	E007	Cobalt, total	mg/L	02/24/21 - 10/10/24	16	88	CI around median	0.001	0.0380
54	UA	E007	Fluoride, total	mg/L	02/24/21 - 10/10/24	16	6	CB around T-S line	0.0699	0.120
54	UA	E007	Lead, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.0005	0.00150
54	UA	E007	Lithium, total	mg/L	02/24/21 - 10/10/24	16	0	CB around T-S line	0.00491	0.0190
54	UA	E007	Mercury, total	mg/L	02/24/21 - 10/10/24	16	94	CI around median	0.0002	0.0002
54	UA	E007	Molybdenum, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	0.0224	0.00170
54	UA	E007	pH (field)	SU	02/24/21 - 10/10/24	16	0	CI around mean	7.1/7.4	6.6/7.5
54	UA	E007	Radium 226 + Radium 228, total	pCi/L	02/24/21 - 10/10/24	16	0	CI around geomean	0.123	2.00
54	UA	E007	Selenium, total	mg/L	02/24/21 - 10/10/24	16	56	CB around T-S line	0.00194	0.00140
54	UA	E007	Sulfate, total	mg/L	02/24/21 - 10/10/24	16	0	CI around mean	73.5	215
54	UA	E007	Thallium, total	mg/L	02/24/21 - 10/10/24	16	100	All ND - Last	0.002	0.001
54	UA	E007	Total Dissolved Solids	mg/L	02/24/21 - 10/10/24	14	0	CI around mean	489	1,620

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HENNEPIN, IL

Notes:

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

Throughout this document, “exceedance” or “exceedances” is intended to refer only to potential exceedances of proposed applicable background statistics or Groundwater Protection Standards (GWPSs) as described in the proposed groundwater monitoring program which was submitted to the Illinois Environmental Protection Agency (IEPA) on October 25, 2021 as part of Dynegy Midwest Generation, LLC’s (DMG’s) operating permit application for the East Ash Pond. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, DMG has not identified any actual exceedances.

Events:

E007 = Quarter 4, 2024 sampling event

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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

Statistical Calculation = method used to calculate the statistical result:

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

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Most recent sample = Result for the most recently collected sample used due to insufficient data

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

Statistical Result Code (if applicable):

NR¹ = Parameter not analyzed.

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

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

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

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

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

NS⁶ = Sampling pump could not yield a sample.

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

NS⁸ = A sample was not collected.

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

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