



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 Old West Ash Pond System (IEPA ID: W1550100002-01, 03) 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 Old West Ash Pond System (IEPA ID: W1550100002-01, 03), as enclosed.

Sincerely,

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

Dianna Tickner
Sr. Director Decommissioning & Demolition

Enclosures

Annual Consolidated Report
Dynegy Midwest Generation, LLC
Hennepin Power Plant
Old West Ash Pond System; IEPA ID: **W1550100002-01, 03**

In accordance with 35 IAC § 845.550, Dynegy Midwest Generation, LLC (DMG) has prepared the annual consolidated report. The report is provided in two 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	Old West 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.	Capping and closure of the Old West Ash Pond complete.
(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	Capping and closure of the Old West Ash Pond complete.
(b)(2)(E) The approximate volume of the impounded water and CCR contained in the unit at the time of the inspection.	Approximately 310 acre-feet of capped and closed CCR.
(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))	Pond is closed and capped.

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: Old West Ash Pond

35 IAC § 845.540 (b)(2)(B)

Instrument ID #	Type	Maximum recorded reading since previous annual inspection (ft)
P002	Piezometer	abandoned
P003	Piezometer	abandoned

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						
CCR	460		465	19		24

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	Old West Polishing 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.	The Old West Polishing Pond was clean closed in 2020.
(b)(2)(B) The location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection	N/A
b)(2)(C) The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection;	N/A
b)(2)(D) The storage capacity of the impounding structure at the time of the inspection	Approximately 60 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 1 acre-feet of storm water only.
(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 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: Old West Polishing Pond

35 IAC § 845.540 (b)(2)(B)

Instrument ID #	Type	Maximum recorded reading since previous annual inspection (ft)
None		

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		446			1	
CCR	0		0	0		0

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
WEST ASH POND SYSTEM
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS**

**IEPA ID NO. W1550100002-01 AND
W1550100002-03**

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

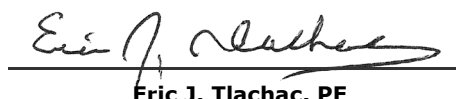
Project name **Hennepin Power Plant West Ash Pond System**
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Checked by **Lauren D. Cook**
Approved by **Eric J. Tlachac, PE**
Description **Annual Report Required by 35 I.A.C. § 845**

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TABLES (IN TEXT)

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

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 29, 2024
Figure 5	Potentiometric Surface Map, March 30, 2024
Figure 6	Potentiometric Surface Map, April 15-16, 2024
Figure 7	Potentiometric Surface Map, May 30, 2024
Figure 8	Potentiometric Surface Map, June 15, 2024
Figure 9	Potentiometric Surface Map, July 17, 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
40 C.F.R.	Title 40 of the Code of Federal Regulations
ASD	alternative source demonstration
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
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
WAPS	West Ash Pond System

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 West Ash Pond System (WAPS) located at Hennepin Power Plant (HPP) near Hennepin, Illinois. The WAPS is recognized by coal combustion residuals (CCR) unit identification (ID) number (No.) 804, Illinois Environmental Protection Agency (IEPA) ID No. W1550100002-01 and W1550100002-03, and National Inventory of Dams (NID) No. IL50698.

The WAPS was closed in accordance with the Closure and Post Closure Care Plan submitted to the IEPA in January 2018. The IEPA approved the Closure and Post-Closure Care Plan on June 19, 2018. Closure construction began in August of 2019 and was completed in November of 2020.

As required by 35 I.A.C. § 845, an operating permit application for the WAPS was submitted by Dynegy Midwest Generation, LLC (DMG) to the 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 the 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 WAPS 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 WAPS 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**). The following GWPS exceedances were determined following quarterly groundwater sampling in 2024 (Ramboll, 2024a; Ramboll, 2024b; Ramboll, 2024c; Ramboll 2025):

- Arsenic in 21R and 51
- Boron in 22, 23, and 35
- Cadmium in 22
- Lithium in 22
- Sulfate in 23 and 35
- Total Dissolved Solids in 35

An alternative source demonstration (ASD) was submitted on November 10, 2023 for the cadmium GWPS exceedance determined during the Quarter 2, 2023 sampling event. The ASD

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 WAPS. 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.

was approved by the IEPA on December 11, 2023. Both of these documents were included in the 2023 Annual Groundwater Monitoring and Corrective Action Report (Ramboll, 2024d). This cadmium exceedance was also determined after the Quarters 1-3, 2024 sampling events, and the approved ASD is applicable to these exceedances as well. An ASD was not completed for the remaining GWPS exceedances listed above; therefore, an assessment of corrective measures (CMA) was initiated in accordance with 35 I.A.C. § 845.640(d)(3). The CMA was initiated on December 10, 2023, and a CMA extension request was submitted to the IEPA on December 11, 2023 and approved on December 12, 2023. The CMA extension request was included in the 2023 Annual Groundwater Monitoring and Corrective Action Report (Ramboll, 2024d). The CMA was completed in accordance with 35 I.A.C. § 845.660 and submitted to IEPA on May 8, 2024 (Ramboll, 2024e). In accordance with 35 I.A.C. § 845.670, a semiannual report describing the progress in selecting and designing a groundwater corrective action remedy and developing a corrective action plan was submitted to IEPA on September 5, 2024 (Ramboll, 2024f) to align with the schedule for similar reports required by Title 40 of the Code of Federal Regulations (40 C.F.R.) § 257.97(a).

As required by 35 I.A.C. § 845.670, a corrective action plan that identifies the selected remedy must be submitted to the IEPA within one year after completing the CMA completed in accordance with 35 I.A.C. § 845.660. Activities currently ongoing in support of developing the corrective action plan include development of a corrective action alternatives analysis, human health and ecological risk assessment, and supporting technical documents. A corrective action plan will be submitted to IEPA on or before May 8, 2025 that meets the requirements of both 40 C.F.R. § 257 and 35 I.A.C. § 845. Upon selection of a remedy, a permit application will be submitted to IEPA identifying the proposed corrective action.

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. 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 WAPS located at HPP near Hennepin, Illinois. The owner or operator of a CCR surface impoundment (SI) must prepare and submit to the 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 (**Figures 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 WAPS for calendar year 2024.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

The WAPS was closed in accordance with the Closure and Post Closure Care Plan submitted to the IEPA in January 2018. The IEPA approved the Closure and Post-Closure Care Plan on June 19, 2018. Closure construction began in August of 2019 and was completed in November of 2020.

An operating permit application for the WAPS was submitted by DMG to the 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 the 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 WAPS commenced in the second quarter of 2023. After the WAPS 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. In addition, and in accordance with the CCA, groundwater monitoring performed under Section 1.5 of the approved Closure and Post-Closure Care Plan ceased with commencement of quarterly groundwater monitoring under 35 I.A.C § 845.

As noted in the **Executive Summary** and **Section 3.2**, GWPS exceedances were determined for the WAPS in 2024. An ASD was submitted on November 10, 2023 for the cadmium GWPS exceedance determined during the Quarter 2, 2023 sampling event (Ramboll, 2023). The ASD was approved by the IEPA on December 11, 2023. Both of these documents were included in the 2023 Annual Groundwater Monitoring and Corrective Action Report (Ramboll, 2024d). This cadmium exceedance was also determined after the Quarters 1-3, 2024 sampling events, and the approved ASD is applicable to these exceedances as well. An ASD was not completed for the remaining GWPS exceedances; they will be addressed in accordance with 35 I.A.C. § 845.660. The CMA was initiated on December 10, 2023. A CMA extension request was submitted to the IEPA on December 11, 2023 and approved on December 12, 2023. The CMA extension request was included in the 2023 Annual Groundwater Monitoring and Corrective Action Report (Ramboll, 2024d).

The CMA was completed in accordance with 35 I.A.C. § 845.660 and submitted to IEPA on May 8, 2024 (Ramboll, 2024e). In accordance with 35 I.A.C. § 845.670, a semiannual report describing the progress in selecting and designing a groundwater corrective action remedy and developing a corrective action plan was submitted to the IEPA on September 5, 2024 (Ramboll, 2024f) to align with the schedule for similar reports required by 40 C.F.R. § 257.97(a).

As required by 35 I.A.C. § 845.670, a corrective action plan that identifies the selected remedy must be submitted to the IEPA within one year after completing the CMA completed in accordance with 35 I.A.C. § 845.660. Activities currently ongoing in support of developing the corrective action plan include development of a corrective action alternatives analysis, human health and ecological risk assessment, and supporting technical documents. A corrective action plan will be submitted to IEPA on or before May 8, 2025 that meets the requirements of both 40 C.F.R. § 257 and 35 I.A.C. § 845. Upon selection of a remedy, a permit application will be submitted to IEPA identifying the proposed corrective action.

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 2024. 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 were previously provided in 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.

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
E003	November 13 - 15, 2023	January 4, 2024	March 4, 2024 ⁴	NA
E004	January 22 - 24, 2024	February 22, 2024	April 22, 2024	NA
E005	May 30, 2024	July 1, 2024	August 30, 2024	NA
E006	July 15, July 18, and August 6, 2024	September 6, 2024	November 5, 2024	NA
E007	October 8 - 9, 2024	November 11, 2024	January 10, 2025	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: 32 and 34

³ The following compliance wells were sampled for each event: 21R, 22, 22D, 23, 27, 35, 49, 50, and 51

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. The following exceedances of the GWPSs were determined and are shown on **Figure 2**:

- Arsenic in 21R and 51
- Boron in 22, 23, and 35
- Cadmium in 22
- Lithium in 22
- Sulfate in 23 and 35
- Total Dissolved Solids in 35

Response actions for these exceedances are summarized in **Section 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 C** 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 WAPS 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 WAPS. After the WAPS 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.
- A public meeting will be held prior to selection of a remedy in accordance with 35 I.A.C. § 845.660(d).
- A corrective action plan will be submitted to IEPA on or before May 8, 2025 as required by 35 I.A.C. § 845.670.
- Upon selection of a remedy, a permit application will be submitted to IEPA identifying the proposed corrective action.

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. *Addendum to the Groundwater Monitoring Plan*. Hennepin Power Plant, West Ash Pond System, Hennepin, Illinois. Dynegy Midwest Generation, LLC. October 25, 2021.

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<https://www.luminant.com/documents/ccr/il-ccr/Hennepin/2024/2024-Hen%20WAPS%202024%203rd%20qtr%2035%20IAC%20845%20GW%20report-Hennepin-West%20Ash%20Pond-W1550100002%E2%80%9001-03.pdf>

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2024d. 2023 35 I.A.C. § 845 Annual Groundwater Monitoring and Corrective Action Report, West Ash Pond System, Hennepin Power Plant, Hennepin, Illinois, IEPA ID No. W1550100002-01 and W1550100002-03. January 31, 2024.

<https://www.luminant.com/documents/ccr/il-ccr/Hennepin/2023/2023-Hennepin%20OWAP%2035%20IAC%20Part%20845%20Annual%20Cons%20Rpt-Hennepin-West%20Ash%20Pond-W1550100002%E2%80%9001-03.pdf>

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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, West Ash Pond System, Hennepin Power Plant, Hennepin, Illinois. January 10, 2025.

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TABLES

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
32	Background	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
32	Background	E004	01/23/2024	Arsenic, total	0.00054 J	mg/L
32	Background	E004	01/23/2024	Barium, total	0.0410	mg/L
32	Background	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
32	Background	E004	01/23/2024	Boron, total	0.160	mg/L
32	Background	E004	01/23/2024	Cadmium, total	0.00017 J	mg/L
32	Background	E004	01/23/2024	Calcium, total	100	mg/L
32	Background	E004	01/23/2024	Chloride, total	72.0	mg/L
32	Background	E004	01/23/2024	Chromium, total	0.0014 J	mg/L
32	Background	E004	01/23/2024	Cobalt, total	0.00130	mg/L
32	Background	E004	01/23/2024	Dissolved Oxygen	-0.0700	mg/L
32	Background	E004	01/23/2024	Fluoride, total	0.110	mg/L
32	Background	E004	01/23/2024	Lead, total	0.000550	mg/L
32	Background	E004	01/23/2024	Lithium, total	0.002 U	mg/L
32	Background	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
32	Background	E004	01/23/2024	Molybdenum, total	0.0025 U	mg/L
32	Background	E004	01/23/2024	Oxidation Reduction Potential	157	mV
32	Background	E004	01/23/2024	pH (field)	7.2	SU
32	Background	E004	01/23/2024	Radium 226 + Radium 228, total	0.553	pCi/L
32	Background	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
32	Background	E004	01/23/2024	Specific Conductance @ 25C (field)	1,001	micromhos/cm
32	Background	E004	01/23/2024	Sulfate, total	80.0	mg/L
32	Background	E004	01/23/2024	Temperature	10.2	degrees C
32	Background	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
32	Background	E004	01/23/2024	Total Dissolved Solids	580	mg/L
32	Background	E004	01/23/2024	Turbidity, field	29.7	NTU
34	Background	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
34	Background	E004	01/23/2024	Arsenic, total	0.00081 J	mg/L
34	Background	E004	01/23/2024	Barium, total	0.120	mg/L
34	Background	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
34	Background	E004	01/23/2024	Boron, total	0.130	mg/L
34	Background	E004	01/23/2024	Cadmium, total	0.00017 U	mg/L
34	Background	E004	01/23/2024	Calcium, total	170	mg/L
34	Background	E004	01/23/2024	Chloride, total	72.0	mg/L
34	Background	E004	01/23/2024	Chromium, total	0.0012 J	mg/L
34	Background	E004	01/23/2024	Cobalt, total	0.0004 U	mg/L
34	Background	E004	01/23/2024	Dissolved Oxygen	-0.270	mg/L
34	Background	E004	01/23/2024	Fluoride, total	0.140	mg/L
34	Background	E004	01/23/2024	Lead, total	0.000570	mg/L
34	Background	E004	01/23/2024	Lithium, total	0.0100	mg/L
34	Background	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
34	Background	E004	01/23/2024	Molybdenum, total	0.0025 U	mg/L
34	Background	E004	01/23/2024	Oxidation Reduction Potential	-148	mV
34	Background	E004	01/23/2024	pH (field)	7.1	SU
34	Background	E004	01/23/2024	Radium 226 + Radium 228, total	1.1	pCi/L
34	Background	E004	01/23/2024	Selenium, total	0.00098 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
34	Background	E004	01/23/2024	Specific Conductance @ 25C (field)	1,304	micromhos/cm
34	Background	E004	01/23/2024	Sulfate, total	45.0	mg/L
34	Background	E004	01/23/2024	Temperature	10.5	degrees C
34	Background	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
34	Background	E004	01/23/2024	Total Dissolved Solids	790	mg/L
34	Background	E004	01/23/2024	Turbidity, field	12.4	NTU
21R	Compliance	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
21R	Compliance	E004	01/23/2024	Arsenic, total	0.0240	mg/L
21R	Compliance	E004	01/23/2024	Barium, total	0.320	mg/L
21R	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
21R	Compliance	E004	01/23/2024	Boron, total	1.90 J-	mg/L
21R	Compliance	E004	01/23/2024	Cadmium, total	0.00019 J	mg/L
21R	Compliance	E004	01/23/2024	Calcium, total	130	mg/L
21R	Compliance	E004	01/23/2024	Chloride, total	97.0	mg/L
21R	Compliance	E004	01/23/2024	Chromium, total	0.0049 J	mg/L
21R	Compliance	E004	01/23/2024	Cobalt, total	0.00220	mg/L
21R	Compliance	E004	01/23/2024	Dissolved Oxygen	1.38	mg/L
21R	Compliance	E004	01/23/2024	Fluoride, total	0.130	mg/L
21R	Compliance	E004	01/23/2024	Lead, total	0.00410	mg/L
21R	Compliance	E004	01/23/2024	Lithium, total	0.0250	mg/L
21R	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
21R	Compliance	E004	01/23/2024	Molybdenum, total	0.0100	mg/L
21R	Compliance	E004	01/23/2024	Oxidation Reduction Potential	-180	mV
21R	Compliance	E004	01/23/2024	pH (field)	7.6	SU
21R	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.989	pCi/L
21R	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
21R	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	1,121	micromhos/cm
21R	Compliance	E004	01/23/2024	Sulfate, total	94.0	mg/L
21R	Compliance	E004	01/23/2024	Temperature	10.0	degrees C
21R	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
21R	Compliance	E004	01/23/2024	Total Dissolved Solids	660	mg/L
21R	Compliance	E004	01/23/2024	Turbidity, field	130	NTU
22	Compliance	E004	01/23/2024	Antimony, total	0.0019 J	mg/L
22	Compliance	E004	01/23/2024	Arsenic, total	0.00110	mg/L
22	Compliance	E004	01/23/2024	Barium, total	0.0630	mg/L
22	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
22	Compliance	E004	01/23/2024	Boron, total	3.90	mg/L
22	Compliance	E004	01/23/2024	Cadmium, total	0.00560	mg/L
22	Compliance	E004	01/23/2024	Calcium, total	95.0	mg/L
22	Compliance	E004	01/23/2024	Chloride, total	95.0	mg/L
22	Compliance	E004	01/23/2024	Chromium, total	0.0011 U	mg/L
22	Compliance	E004	01/23/2024	Cobalt, total	0.00230	mg/L
22	Compliance	E004	01/23/2024	Dissolved Oxygen	0.100	mg/L
22	Compliance	E004	01/23/2024	Fluoride, total	0.150	mg/L
22	Compliance	E004	01/23/2024	Lead, total	0.00049 J	mg/L
22	Compliance	E004	01/23/2024	Lithium, total	0.0490	mg/L

TABLE 1.
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845 QUARTERLY REPORT
HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
22	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
22	Compliance	E004	01/23/2024	Molybdenum, total	0.0830	mg/L
22	Compliance	E004	01/23/2024	Oxidation Reduction Potential	36.3	mV
22	Compliance	E004	01/23/2024	pH (field)	7.7	SU
22	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.582	pCi/L
22	Compliance	E004	01/23/2024	Selenium, total	0.0170	mg/L
22	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	935	micromhos/cm
22	Compliance	E004	01/23/2024	Sulfate, total	120	mg/L
22	Compliance	E004	01/23/2024	Temperature	14.1	degrees C
22	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
22	Compliance	E004	01/23/2024	Total Dissolved Solids	660	mg/L
22	Compliance	E004	01/23/2024	Turbidity, field	19.9	NTU
22D	Compliance	E004	01/23/2024	Antimony, total	0.0018 J	mg/L
22D	Compliance	E004	01/23/2024	Arsenic, total	0.00150	mg/L
22D	Compliance	E004	01/23/2024	Barium, total	0.0720	mg/L
22D	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
22D	Compliance	E004	01/23/2024	Boron, total	1.40	mg/L
22D	Compliance	E004	01/23/2024	Cadmium, total	0.00017 U	mg/L
22D	Compliance	E004	01/23/2024	Calcium, total	120	mg/L
22D	Compliance	E004	01/23/2024	Chloride, total	98.0	mg/L
22D	Compliance	E004	01/23/2024	Chromium, total	0.0015 J	mg/L
22D	Compliance	E004	01/23/2024	Cobalt, total	0.00079 J	mg/L
22D	Compliance	E004	01/23/2024	Dissolved Oxygen	1.24	mg/L
22D	Compliance	E004	01/23/2024	Fluoride, total	0.100	mg/L
22D	Compliance	E004	01/23/2024	Lead, total	0.000650	mg/L
22D	Compliance	E004	01/23/2024	Lithium, total	0.0150	mg/L
22D	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
22D	Compliance	E004	01/23/2024	Molybdenum, total	0.00690	mg/L
22D	Compliance	E004	01/23/2024	Oxidation Reduction Potential	-130	mV
22D	Compliance	E004	01/23/2024	pH (field)	7.4	SU
22D	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	1.44	pCi/L
22D	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
22D	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	1,083	micromhos/cm
22D	Compliance	E004	01/23/2024	Sulfate, total	91.0	mg/L
22D	Compliance	E004	01/23/2024	Temperature	12.6	degrees C
22D	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
22D	Compliance	E004	01/23/2024	Total Dissolved Solids	670	mg/L
22D	Compliance	E004	01/23/2024	Turbidity, field	17.2	NTU
23	Compliance	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
23	Compliance	E004	01/24/2024	Arsenic, total	0.00130	mg/L
23	Compliance	E004	01/24/2024	Barium, total	0.0440	mg/L
23	Compliance	E004	01/24/2024	Beryllium, total	0.00066 J	mg/L
23	Compliance	E004	01/24/2024	Boron, total	8.00	mg/L
23	Compliance	E004	01/24/2024	Cadmium, total	0.00019 J	mg/L
23	Compliance	E004	01/24/2024	Calcium, total	110	mg/L
23	Compliance	E004	01/24/2024	Chloride, total	61.0	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
23	Compliance	E004	01/24/2024	Chromium, total	0.0011 U	mg/L
23	Compliance	E004	01/24/2024	Cobalt, total	0.00047 J	mg/L
23	Compliance	E004	01/24/2024	Dissolved Oxygen	0.110	mg/L
23	Compliance	E004	01/24/2024	Fluoride, total	0.150	mg/L
23	Compliance	E004	01/24/2024	Lead, total	0.00035 J	mg/L
23	Compliance	E004	01/24/2024	Lithium, total	0.0027 J	mg/L
23	Compliance	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
23	Compliance	E004	01/24/2024	Molybdenum, total	0.0170	mg/L
23	Compliance	E004	01/24/2024	Oxidation Reduction Potential	-146	mV
23	Compliance	E004	01/24/2024	pH (field)	7.6	SU
23	Compliance	E004	01/24/2024	Radium 226 + Radium 228, total	0.0602	pCi/L
23	Compliance	E004	01/24/2024	Selenium, total	0.00098 U	mg/L
23	Compliance	E004	01/24/2024	Specific Conductance @ 25C (field)	1,134	micromhos/cm
23	Compliance	E004	01/24/2024	Sulfate, total	280	mg/L
23	Compliance	E004	01/24/2024	Temperature	11.4	degrees C
23	Compliance	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
23	Compliance	E004	01/24/2024	Total Dissolved Solids	920	mg/L
23	Compliance	E004	01/24/2024	Turbidity, field	6.25	NTU
27	Compliance	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
27	Compliance	E004	01/23/2024	Arsenic, total	0.00220	mg/L
27	Compliance	E004	01/23/2024	Barium, total	0.120	mg/L
27	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
27	Compliance	E004	01/23/2024	Boron, total	2.30	mg/L
27	Compliance	E004	01/23/2024	Cadmium, total	0.00200	mg/L
27	Compliance	E004	01/23/2024	Calcium, total	120	mg/L
27	Compliance	E004	01/23/2024	Chloride, total	91.0	mg/L
27	Compliance	E004	01/23/2024	Chromium, total	0.00770	mg/L
27	Compliance	E004	01/23/2024	Cobalt, total	0.00380	mg/L
27	Compliance	E004	01/23/2024	Dissolved Oxygen	-0.300	mg/L
27	Compliance	E004	01/23/2024	Fluoride, total	0.110	mg/L
27	Compliance	E004	01/23/2024	Lead, total	0.00650	mg/L
27	Compliance	E004	01/23/2024	Lithium, total	0.0230	mg/L
27	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
27	Compliance	E004	01/23/2024	Molybdenum, total	0.0047 J	mg/L
27	Compliance	E004	01/23/2024	Oxidation Reduction Potential	-65.4	mV
27	Compliance	E004	01/23/2024	pH (field)	7.2	SU
27	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.138	pCi/L
27	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
27	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	1,089	micromhos/cm
27	Compliance	E004	01/23/2024	Sulfate, total	130	mg/L
27	Compliance	E004	01/23/2024	Temperature	9.70	degrees C
27	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
27	Compliance	E004	01/23/2024	Total Dissolved Solids	630	mg/L
27	Compliance	E004	01/23/2024	Turbidity, field	18.1	NTU
35	Compliance	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
35	Compliance	E004	01/23/2024	Arsenic, total	0.00160	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
35	Compliance	E004	01/23/2024	Barium, total	0.0290	mg/L
35	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
35	Compliance	E004	01/23/2024	Boron, total	3.00	mg/L
35	Compliance	E004	01/23/2024	Cadmium, total	0.00019 J	mg/L
35	Compliance	E004	01/23/2024	Calcium, total	160	mg/L
35	Compliance	E004	01/23/2024	Chloride, total	9.70	mg/L
35	Compliance	E004	01/23/2024	Chromium, total	0.0011 U	mg/L
35	Compliance	E004	01/23/2024	Cobalt, total	0.00100	mg/L
35	Compliance	E004	01/23/2024	Dissolved Oxygen	-0.170	mg/L
35	Compliance	E004	01/23/2024	Fluoride, total	0.240	mg/L
35	Compliance	E004	01/23/2024	Lead, total	0.00019 U	mg/L
35	Compliance	E004	01/23/2024	Lithium, total	0.00790	mg/L
35	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
35	Compliance	E004	01/23/2024	Molybdenum, total	0.0440	mg/L
35	Compliance	E004	01/23/2024	Oxidation Reduction Potential	28.5	mV
35	Compliance	E004	01/23/2024	pH (field)	7.1	SU
35	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.461	pCi/L
35	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
35	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	856	micromhos/cm
35	Compliance	E004	01/23/2024	Sulfate, total	220	mg/L
35	Compliance	E004	01/23/2024	Temperature	11.5	degrees C
35	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
35	Compliance	E004	01/23/2024	Total Dissolved Solids	650	mg/L
35	Compliance	E004	01/23/2024	Turbidity, field	5.82	NTU
49	Compliance	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
49	Compliance	E004	01/23/2024	Arsenic, total	0.00099 J	mg/L
49	Compliance	E004	01/23/2024	Barium, total	0.0660	mg/L
49	Compliance	E004	01/23/2024	Beryllium, total	0.00053 U	mg/L
49	Compliance	E004	01/23/2024	Boron, total	0.700	mg/L
49	Compliance	E004	01/23/2024	Cadmium, total	0.00140	mg/L
49	Compliance	E004	01/23/2024	Calcium, total	110	mg/L
49	Compliance	E004	01/23/2024	Chloride, total	100	mg/L
49	Compliance	E004	01/23/2024	Chromium, total	0.0022 J	mg/L
49	Compliance	E004	01/23/2024	Cobalt, total	0.00410	mg/L
49	Compliance	E004	01/23/2024	Dissolved Oxygen	0.160	mg/L
49	Compliance	E004	01/23/2024	Fluoride, total	0.150	mg/L
49	Compliance	E004	01/23/2024	Lead, total	0.00150	mg/L
49	Compliance	E004	01/23/2024	Lithium, total	0.0220	mg/L
49	Compliance	E004	01/23/2024	Mercury, total	0.0002 U	mg/L
49	Compliance	E004	01/23/2024	Molybdenum, total	0.0250	mg/L
49	Compliance	E004	01/23/2024	Oxidation Reduction Potential	44.3	mV
49	Compliance	E004	01/23/2024	pH (field)	7.2	SU
49	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.947	pCi/L
49	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
49	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	1,054	micromhos/cm
49	Compliance	E004	01/23/2024	Sulfate, total	81.0	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
49	Compliance	E004	01/23/2024	Temperature	13.0	degrees C
49	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
49	Compliance	E004	01/23/2024	Total Dissolved Solids	620	mg/L
49	Compliance	E004	01/23/2024	Turbidity, field	70.6	NTU
50	Compliance	E004	01/23/2024	Antimony, total	0.0013 U	mg/L
50	Compliance	E004	01/23/2024	Arsenic, total	0.00110	mg/L
50	Compliance	E004	01/23/2024	Barium, total	0.0830	mg/L
50	Compliance	E004	01/23/2024	Beryllium, total	0.00058 J	mg/L
50	Compliance	E004	01/23/2024	Boron, total	1.50	mg/L
50	Compliance	E004	01/23/2024	Cadmium, total	0.00240	mg/L
50	Compliance	E004	01/23/2024	Calcium, total	110	mg/L
50	Compliance	E004	01/23/2024	Chloride, total	93.0	mg/L
50	Compliance	E004	01/23/2024	Chromium, total	0.0015 J	mg/L
50	Compliance	E004	01/23/2024	Cobalt, total	0.00620	mg/L
50	Compliance	E004	01/23/2024	Dissolved Oxygen	132	mg/L
50	Compliance	E004	01/23/2024	Fluoride, total	0.130	mg/L
50	Compliance	E004	01/23/2024	Lead, total	0.000890	mg/L
50	Compliance	E004	01/23/2024	Lithium, total	0.0290	mg/L
50	Compliance	E004	01/23/2024	Mercury, total	0.000079 U	mg/L
50	Compliance	E004	01/23/2024	Molybdenum, total	0.0560	mg/L
50	Compliance	E004	01/23/2024	Oxidation Reduction Potential	57.5	mV
50	Compliance	E004	01/23/2024	pH (field)	7.6	SU
50	Compliance	E004	01/23/2024	Radium 226 + Radium 228, total	0.774	pCi/L
50	Compliance	E004	01/23/2024	Selenium, total	0.00098 U	mg/L
50	Compliance	E004	01/23/2024	Specific Conductance @ 25C (field)	910	micromhos/cm
50	Compliance	E004	01/23/2024	Sulfate, total	120	mg/L
50	Compliance	E004	01/23/2024	Temperature	13.7	degrees C
50	Compliance	E004	01/23/2024	Thallium, total	0.00057 U	mg/L
50	Compliance	E004	01/23/2024	Total Dissolved Solids	610	mg/L
50	Compliance	E004	01/23/2024	Turbidity, field	67.4	NTU
51	Compliance	E004	01/24/2024	Antimony, total	0.0013 U	mg/L
51	Compliance	E004	01/24/2024	Arsenic, total	0.0240	mg/L
51	Compliance	E004	01/24/2024	Barium, total	0.120	mg/L
51	Compliance	E004	01/24/2024	Beryllium, total	0.00053 U	mg/L
51	Compliance	E004	01/24/2024	Boron, total	1.40	mg/L
51	Compliance	E004	01/24/2024	Cadmium, total	0.00042 J	mg/L
51	Compliance	E004	01/24/2024	Calcium, total	120	mg/L
51	Compliance	E004	01/24/2024	Chloride, total	100	mg/L
51	Compliance	E004	01/24/2024	Chromium, total	0.00570	mg/L
51	Compliance	E004	01/24/2024	Cobalt, total	0.00250	mg/L
51	Compliance	E004	01/24/2024	Dissolved Oxygen	-0.0600	mg/L
51	Compliance	E004	01/24/2024	Fluoride, total	0.130	mg/L
51	Compliance	E004	01/24/2024	Lead, total	0.00530	mg/L
51	Compliance	E004	01/24/2024	Lithium, total	0.0250	mg/L
51	Compliance	E004	01/24/2024	Mercury, total	0.000079 U	mg/L
51	Compliance	E004	01/24/2024	Molybdenum, total	0.00880	mg/L

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

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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
51	Compliance	E004	01/24/2024	Oxidation Reduction Potential	-178	mV
51	Compliance	E004	01/24/2024	pH (field)	7.4	SU
51	Compliance	E004	01/24/2024	Radium 226 + Radium 228, total	1.93	pCi/L
51	Compliance	E004	01/24/2024	Selenium, total	0.00098 U	mg/L
51	Compliance	E004	01/24/2024	Specific Conductance @ 25C (field)	1,094	micromhos/cm
51	Compliance	E004	01/24/2024	Sulfate, total	92.0	mg/L
51	Compliance	E004	01/24/2024	Temperature	9.90	degrees C
51	Compliance	E004	01/24/2024	Thallium, total	0.00057 U	mg/L
51	Compliance	E004	01/24/2024	Total Dissolved Solids	640	mg/L
51	Compliance	E004	01/24/2024	Turbidity, field	110	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 low.
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
WEST ASH POND SYSTEM
HENNEPIN, IL

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
32	Background	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
32	Background	E006	08/06/2024	Arsenic, total	0.00023 U	mg/L
32	Background	E006	08/06/2024	Barium, total	0.0380	mg/L
32	Background	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
32	Background	E006	08/06/2024	Boron, total	0.210 J+	mg/L
32	Background	E006	08/06/2024	Cadmium, total	0.00018 J	mg/L
32	Background	E006	08/06/2024	Calcium, total	100	mg/L
32	Background	E006	08/06/2024	Chloride, total	77.0	mg/L
32	Background	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
32	Background	E006	08/06/2024	Cobalt, total	0.00079 J	mg/L
32	Background	E006	08/06/2024	Dissolved Oxygen	0.620	mg/L
32	Background	E006	08/06/2024	Fluoride, total	0.130	mg/L
32	Background	E006	08/06/2024	Lead, total	0.00019 U	mg/L
32	Background	E006	08/06/2024	Lithium, total	0.005 UJ	mg/L
32	Background	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
32	Background	E006	08/06/2024	Molybdenum, total	0.0025 U	mg/L
32	Background	E006	08/06/2024	Oxidation Reduction Potential	68.4	mV
32	Background	E006	08/06/2024	pH (field)	7.1	SU
32	Background	E006	08/06/2024	Radium 226 + Radium 228, total	0.0566	pCi/L
32	Background	E006	08/06/2024	Selenium, total	0.00098 U	mg/L
32	Background	E006	08/06/2024	Specific Conductance @ 25C (field)	817	micromhos/cm
32	Background	E006	08/06/2024	Sulfate, total	60.0	mg/L
32	Background	E006	08/06/2024	Temperature	13.4	degrees C
32	Background	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
32	Background	E006	08/06/2024	Total Dissolved Solids	580	mg/L
32	Background	E006	08/06/2024	Turbidity, field	2.25	NTU
34	Background	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
34	Background	E006	08/06/2024	Arsenic, total	0.00044 J	mg/L
34	Background	E006	08/06/2024	Barium, total	0.110	mg/L
34	Background	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
34	Background	E006	08/06/2024	Boron, total	0.160 J+	mg/L
34	Background	E006	08/06/2024	Cadmium, total	0.00017 U	mg/L
34	Background	E006	08/06/2024	Calcium, total	160	mg/L
34	Background	E006	08/06/2024	Chloride, total	70.0	mg/L
34	Background	E006	08/06/2024	Chromium, total	0.0013 J	mg/L
34	Background	E006	08/06/2024	Cobalt, total	0.0004 U	mg/L
34	Background	E006	08/06/2024	Dissolved Oxygen	0.150	mg/L
34	Background	E006	08/06/2024	Fluoride, total	0.160	mg/L
34	Background	E006	08/06/2024	Lead, total	0.0005 UJ	mg/L
34	Background	E006	08/06/2024	Lithium, total	0.0150 J+	mg/L
34	Background	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
34	Background	E006	08/06/2024	Molybdenum, total	0.0025 U	mg/L
34	Background	E006	08/06/2024	Oxidation Reduction Potential	-102	mV
34	Background	E006	08/06/2024	pH (field)	7.0	SU
34	Background	E006	08/06/2024	Radium 226 + Radium 228, total	0.213	pCi/L
34	Background	E006	08/06/2024	Selenium, total	0.00098 U	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
34	Background	E006	08/06/2024	Specific Conductance @ 25C (field)	1,082	micromhos/cm
34	Background	E006	08/06/2024	Sulfate, total	49.0	mg/L
34	Background	E006	08/06/2024	Temperature	13.0	degrees C
34	Background	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
34	Background	E006	08/06/2024	Total Dissolved Solids	800	mg/L
34	Background	E006	08/06/2024	Turbidity, field	13.8	NTU
21R	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
21R	Compliance	E006	08/06/2024	Arsenic, total	0.0230	mg/L
21R	Compliance	E006	08/06/2024	Barium, total	0.280	mg/L
21R	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
21R	Compliance	E006	08/06/2024	Boron, total	2.20	mg/L
21R	Compliance	E006	08/06/2024	Cadmium, total	0.00017 U	mg/L
21R	Compliance	E006	08/06/2024	Calcium, total	130	mg/L
21R	Compliance	E006	08/06/2024	Chloride, total	93.0	mg/L
21R	Compliance	E006	08/06/2024	Chromium, total	0.0012 J	mg/L
21R	Compliance	E006	08/06/2024	Cobalt, total	0.00051 J	mg/L
21R	Compliance	E006	08/06/2024	Dissolved Oxygen	3.77	mg/L
21R	Compliance	E006	08/06/2024	Fluoride, total	0.170	mg/L
21R	Compliance	E006	08/06/2024	Lead, total	0.000940 J+	mg/L
21R	Compliance	E006	08/06/2024	Lithium, total	0.0270	mg/L
21R	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
21R	Compliance	E006	08/06/2024	Molybdenum, total	0.00860	mg/L
21R	Compliance	E006	08/06/2024	Oxidation Reduction Potential	-140	mV
21R	Compliance	E006	08/06/2024	pH (field)	7.4	SU
21R	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	1.37	pCi/L
21R	Compliance	E006	08/06/2024	Selenium, total	0.00098 U	mg/L
21R	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	969	micromhos/cm
21R	Compliance	E006	08/06/2024	Sulfate, total	82.0	mg/L
21R	Compliance	E006	08/06/2024	Temperature	13.9	degrees C
21R	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
21R	Compliance	E006	08/06/2024	Total Dissolved Solids	670	mg/L
21R	Compliance	E006	08/06/2024	Turbidity, field	21.6	NTU
22	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
22	Compliance	E006	08/06/2024	Arsenic, total	0.00079 J	mg/L
22	Compliance	E006	08/06/2024	Barium, total	0.0580	mg/L
22	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
22	Compliance	E006	08/06/2024	Boron, total	3.10	mg/L
22	Compliance	E006	08/06/2024	Cadmium, total	0.00470	mg/L
22	Compliance	E006	08/06/2024	Calcium, total	96.0	mg/L
22	Compliance	E006	08/06/2024	Chloride, total	91.0	mg/L
22	Compliance	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
22	Compliance	E006	08/06/2024	Cobalt, total	0.00200	mg/L
22	Compliance	E006	08/06/2024	Dissolved Oxygen	3.16	mg/L
22	Compliance	E006	08/06/2024	Fluoride, total	0.160	mg/L
22	Compliance	E006	08/06/2024	Lead, total	0.0005 UJ	mg/L
22	Compliance	E006	08/06/2024	Lithium, total	0.0520	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
22	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
22	Compliance	E006	08/06/2024	Molybdenum, total	0.0690	mg/L
22	Compliance	E006	08/06/2024	Oxidation Reduction Potential	55.4	mV
22	Compliance	E006	08/06/2024	pH (field)	7.5	SU
22	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	0.102	pCi/L
22	Compliance	E006	08/06/2024	Selenium, total	0.0120	mg/L
22	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	869	micromhos/cm
22	Compliance	E006	08/06/2024	Sulfate, total	120	mg/L
22	Compliance	E006	08/06/2024	Temperature	15.9	degrees C
22	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
22	Compliance	E006	08/06/2024	Total Dissolved Solids	640	mg/L
22	Compliance	E006	08/06/2024	Turbidity, field	1.17	NTU
22D	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
22D	Compliance	E006	08/06/2024	Arsenic, total	0.00100	mg/L
22D	Compliance	E006	08/06/2024	Barium, total	0.0680	mg/L
22D	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
22D	Compliance	E006	08/06/2024	Boron, total	1.50	mg/L
22D	Compliance	E006	08/06/2024	Cadmium, total	0.00017 U	mg/L
22D	Compliance	E006	08/06/2024	Calcium, total	120	mg/L
22D	Compliance	E006	08/06/2024	Chloride, total	98.0	mg/L
22D	Compliance	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
22D	Compliance	E006	08/06/2024	Cobalt, total	0.0004 U	mg/L
22D	Compliance	E006	08/06/2024	Dissolved Oxygen	0.940	mg/L
22D	Compliance	E006	08/06/2024	Fluoride, total	0.110	mg/L
22D	Compliance	E006	08/06/2024	Lead, total	0.00019 U	mg/L
22D	Compliance	E006	08/06/2024	Lithium, total	0.0160 J+	mg/L
22D	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
22D	Compliance	E006	08/06/2024	Molybdenum, total	0.00630	mg/L
22D	Compliance	E006	08/06/2024	Oxidation Reduction Potential	-82.2	mV
22D	Compliance	E006	08/06/2024	pH (field)	7.2	SU
22D	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	1.38	pCi/L
22D	Compliance	E006	08/06/2024	Selenium, total	0.00098 U	mg/L
22D	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	951	micromhos/cm
22D	Compliance	E006	08/06/2024	Sulfate, total	93.0	mg/L
22D	Compliance	E006	08/06/2024	Temperature	16.5	degrees C
22D	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
22D	Compliance	E006	08/06/2024	Total Dissolved Solids	680	mg/L
22D	Compliance	E006	08/06/2024	Turbidity, field	3.24	NTU
23	Compliance	E006	07/18/2024	Antimony, total	0.0013 U	mg/L
23	Compliance	E006	07/18/2024	Arsenic, total	0.00065 J	mg/L
23	Compliance	E006	07/18/2024	Barium, total	0.0400	mg/L
23	Compliance	E006	07/18/2024	Beryllium, total	0.00053 U	mg/L
23	Compliance	E006	07/18/2024	Boron, total	9.20	mg/L
23	Compliance	E006	07/18/2024	Cadmium, total	0.00017 U	mg/L
23	Compliance	E006	07/18/2024	Calcium, total	110	mg/L
23	Compliance	E006	07/18/2024	Chloride, total	54.0	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
23	Compliance	E006	07/18/2024	Chromium, total	0.0011 U	mg/L
23	Compliance	E006	07/18/2024	Cobalt, total	0.0004 U	mg/L
23	Compliance	E006	07/18/2024	Dissolved Oxygen	0.150	mg/L
23	Compliance	E006	07/18/2024	Fluoride, total	0.170	mg/L
23	Compliance	E006	07/18/2024	Lead, total	0.00019 U	mg/L
23	Compliance	E006	07/18/2024	Lithium, total	0.005 UJ	mg/L
23	Compliance	E006	07/18/2024	Mercury, total	0.000076 U	mg/L
23	Compliance	E006	07/18/2024	Molybdenum, total	0.0140	mg/L
23	Compliance	E006	07/18/2024	Oxidation Reduction Potential	-78.1	mV
23	Compliance	E006	07/18/2024	pH (field)	7.5	SU
23	Compliance	E006	07/18/2024	Radium 226 + Radium 228, total	0.366	pCi/L
23	Compliance	E006	07/18/2024	Selenium, total	0.00098 U	mg/L
23	Compliance	E006	07/18/2024	Specific Conductance @ 25C (field)	1,066	micromhos/cm
23	Compliance	E006	07/18/2024	Sulfate, total	460	mg/L
23	Compliance	E006	07/18/2024	Temperature	13.6	degrees C
23	Compliance	E006	07/18/2024	Thallium, total	0.00057 U	mg/L
23	Compliance	E006	07/18/2024	Total Dissolved Solids	940	mg/L
23	Compliance	E006	07/18/2024	Turbidity, field	6.86	NTU
27	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
27	Compliance	E006	08/06/2024	Arsenic, total	0.00086 J	mg/L
27	Compliance	E006	08/06/2024	Barium, total	0.0830	mg/L
27	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
27	Compliance	E006	08/06/2024	Boron, total	2.20	mg/L
27	Compliance	E006	08/06/2024	Cadmium, total	0.00022 J	mg/L
27	Compliance	E006	08/06/2024	Calcium, total	130	mg/L
27	Compliance	E006	08/06/2024	Chloride, total	96.0	mg/L
27	Compliance	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
27	Compliance	E006	08/06/2024	Cobalt, total	0.00270	mg/L
27	Compliance	E006	08/06/2024	Dissolved Oxygen	0.110	mg/L
27	Compliance	E006	08/06/2024	Fluoride, total	0.130	mg/L
27	Compliance	E006	08/06/2024	Lead, total	0.000760 J+	mg/L
27	Compliance	E006	08/06/2024	Lithium, total	0.0250	mg/L
27	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
27	Compliance	E006	08/06/2024	Molybdenum, total	0.0043 J	mg/L
27	Compliance	E006	08/06/2024	Oxidation Reduction Potential	-14.7	mV
27	Compliance	E006	08/06/2024	pH (field)	7.1	SU
27	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	0.253	pCi/L
27	Compliance	E006	08/06/2024	Selenium, total	0.00098 U	mg/L
27	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	949	micromhos/cm
27	Compliance	E006	08/06/2024	Sulfate, total	100	mg/L
27	Compliance	E006	08/06/2024	Temperature	12.7	degrees C
27	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
27	Compliance	E006	08/06/2024	Total Dissolved Solids	690	mg/L
27	Compliance	E006	08/06/2024	Turbidity, field	6.57	NTU
35	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
35	Compliance	E006	08/06/2024	Arsenic, total	0.00034 J	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
35	Compliance	E006	08/06/2024	Barium, total	0.0510	mg/L
35	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
35	Compliance	E006	08/06/2024	Boron, total	16.0	mg/L
35	Compliance	E006	08/06/2024	Cadmium, total	0.00043 J	mg/L
35	Compliance	E006	08/06/2024	Calcium, total	420	mg/L
35	Compliance	E006	08/06/2024	Chloride, total	13.0	mg/L
35	Compliance	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
35	Compliance	E006	08/06/2024	Cobalt, total	0.00077 J	mg/L
35	Compliance	E006	08/06/2024	Dissolved Oxygen	0.140	mg/L
35	Compliance	E006	08/06/2024	Fluoride, total	0.160	mg/L
35	Compliance	E006	08/06/2024	Lead, total	0.00019 U	mg/L
35	Compliance	E006	08/06/2024	Lithium, total	0.0260	mg/L
35	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
35	Compliance	E006	08/06/2024	Molybdenum, total	0.0690	mg/L
35	Compliance	E006	08/06/2024	Oxidation Reduction Potential	114	mV
35	Compliance	E006	08/06/2024	pH (field)	6.8	SU
35	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	0.519	pCi/L
35	Compliance	E006	08/06/2024	Selenium, total	0.00098 U	mg/L
35	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	1,723	micromhos/cm
35	Compliance	E006	08/06/2024	Sulfate, total	1,100	mg/L
35	Compliance	E006	08/06/2024	Temperature	15.8	degrees C
35	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
35	Compliance	E006	08/06/2024	Total Dissolved Solids	1,900	mg/L
35	Compliance	E006	08/06/2024	Turbidity, field	9.47	NTU
49	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
49	Compliance	E006	08/06/2024	Arsenic, total	0.00023 U	mg/L
49	Compliance	E006	08/06/2024	Barium, total	0.0600	mg/L
49	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
49	Compliance	E006	08/06/2024	Boron, total	0.710	mg/L
49	Compliance	E006	08/06/2024	Cadmium, total	0.00130	mg/L
49	Compliance	E006	08/06/2024	Calcium, total	110	mg/L
49	Compliance	E006	08/06/2024	Chloride, total	110	mg/L
49	Compliance	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
49	Compliance	E006	08/06/2024	Cobalt, total	0.00320	mg/L
49	Compliance	E006	08/06/2024	Dissolved Oxygen	0.180	mg/L
49	Compliance	E006	08/06/2024	Fluoride, total	0.170	mg/L
49	Compliance	E006	08/06/2024	Lead, total	0.0005 UJ	mg/L
49	Compliance	E006	08/06/2024	Lithium, total	0.0250	mg/L
49	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
49	Compliance	E006	08/06/2024	Molybdenum, total	0.0220	mg/L
49	Compliance	E006	08/06/2024	Oxidation Reduction Potential	59.7	mV
49	Compliance	E006	08/06/2024	pH (field)	7.0	SU
49	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	0.442	pCi/L
49	Compliance	E006	08/06/2024	Selenium, total	0.00098 U	mg/L
49	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	939	micromhos/cm
49	Compliance	E006	08/06/2024	Sulfate, total	80.0	mg/L

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
49	Compliance	E006	08/06/2024	Temperature	15.0	degrees C
49	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
49	Compliance	E006	08/06/2024	Total Dissolved Solids	640	mg/L
49	Compliance	E006	08/06/2024	Turbidity, field	3.30	NTU
50	Compliance	E006	08/06/2024	Antimony, total	0.0013 U	mg/L
50	Compliance	E006	08/06/2024	Arsenic, total	0.00056 J	mg/L
50	Compliance	E006	08/06/2024	Barium, total	0.0870	mg/L
50	Compliance	E006	08/06/2024	Beryllium, total	0.00053 U	mg/L
50	Compliance	E006	08/06/2024	Boron, total	0.720	mg/L
50	Compliance	E006	08/06/2024	Cadmium, total	0.000960	mg/L
50	Compliance	E006	08/06/2024	Calcium, total	130	mg/L
50	Compliance	E006	08/06/2024	Chloride, total	90.0	mg/L
50	Compliance	E006	08/06/2024	Chromium, total	0.0011 U	mg/L
50	Compliance	E006	08/06/2024	Cobalt, total	0.00370	mg/L
50	Compliance	E006	08/06/2024	Dissolved Oxygen	1.00	mg/L
50	Compliance	E006	08/06/2024	Fluoride, total	0.110	mg/L
50	Compliance	E006	08/06/2024	Lead, total	0.00019 U	mg/L
50	Compliance	E006	08/06/2024	Lithium, total	0.0240	mg/L
50	Compliance	E006	08/06/2024	Mercury, total	0.000076 U	mg/L
50	Compliance	E006	08/06/2024	Molybdenum, total	0.0330	mg/L
50	Compliance	E006	08/06/2024	Oxidation Reduction Potential	137	mV
50	Compliance	E006	08/06/2024	pH (field)	7.4	SU
50	Compliance	E006	08/06/2024	Radium 226 + Radium 228, total	0.56	pCi/L
50	Compliance	E006	08/06/2024	Selenium, total	0.00098 U	mg/L
50	Compliance	E006	08/06/2024	Specific Conductance @ 25C (field)	1,175	micromhos/cm
50	Compliance	E006	08/06/2024	Sulfate, total	92.0	mg/L
50	Compliance	E006	08/06/2024	Temperature	16.4	degrees C
50	Compliance	E006	08/06/2024	Thallium, total	0.00057 U	mg/L
50	Compliance	E006	08/06/2024	Total Dissolved Solids	610	mg/L
50	Compliance	E006	08/06/2024	Turbidity, field	1.35	NTU
51	Compliance	E006	07/18/2024	Antimony, total	0.0013 U	mg/L
51	Compliance	E006	07/18/2024	Arsenic, total	0.0230	mg/L
51	Compliance	E006	07/18/2024	Barium, total	0.100	mg/L
51	Compliance	E006	07/18/2024	Beryllium, total	0.00053 U	mg/L
51	Compliance	E006	07/18/2024	Boron, total	1.50	mg/L
51	Compliance	E006	07/18/2024	Cadmium, total	0.00017 U	mg/L
51	Compliance	E006	07/18/2024	Calcium, total	120	mg/L
51	Compliance	E006	07/18/2024	Chloride, total	100	mg/L
51	Compliance	E006	07/18/2024	Chromium, total	0.0011 U	mg/L
51	Compliance	E006	07/18/2024	Cobalt, total	0.00052 J	mg/L
51	Compliance	E006	07/18/2024	Dissolved Oxygen	0.320	mg/L
51	Compliance	E006	07/18/2024	Fluoride, total	0.150	mg/L
51	Compliance	E006	07/18/2024	Lead, total	0.000640 J+	mg/L
51	Compliance	E006	07/18/2024	Lithium, total	0.0210 J+	mg/L
51	Compliance	E006	07/18/2024	Mercury, total	0.000076 U	mg/L
51	Compliance	E006	07/18/2024	Molybdenum, total	0.00810	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2024

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
51	Compliance	E006	07/18/2024	Oxidation Reduction Potential	-129	mV
51	Compliance	E006	07/18/2024	pH (field)	7.4	SU
51	Compliance	E006	07/18/2024	Radium 226 + Radium 228, total	1.3	pCi/L
51	Compliance	E006	07/18/2024	Selenium, total	0.00098 U	mg/L
51	Compliance	E006	07/18/2024	Specific Conductance @ 25C (field)	956	micromhos/cm
51	Compliance	E006	07/18/2024	Sulfate, total	89.0	mg/L
51	Compliance	E006	07/18/2024	Temperature	13.7	degrees C
51	Compliance	E006	07/18/2024	Thallium, total	0.00057 U	mg/L
51	Compliance	E006	07/18/2024	Total Dissolved Solids	630	mg/L
51	Compliance	E006	07/18/2024	Turbidity, field	20.0	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
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
32	Background	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
32	Background	E007	10/08/2024	Arsenic, total	0.00023 U	mg/L
32	Background	E007	10/08/2024	Barium, total	0.0380	mg/L
32	Background	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
32	Background	E007	10/08/2024	Boron, total	0.200 J+	mg/L
32	Background	E007	10/08/2024	Cadmium, total	0.00024 J	mg/L
32	Background	E007	10/08/2024	Calcium, total	100	mg/L
32	Background	E007	10/08/2024	Chloride, total	66.0	mg/L
32	Background	E007	10/08/2024	Chromium, total	0.0011 U	mg/L
32	Background	E007	10/08/2024	Cobalt, total	0.00078 J	mg/L
32	Background	E007	10/08/2024	Dissolved Oxygen	0.890	mg/L
32	Background	E007	10/08/2024	Fluoride, total	0.130	mg/L
32	Background	E007	10/08/2024	Lead, total	0.00019 U	mg/L
32	Background	E007	10/08/2024	Lithium, total	0.0034 J	mg/L
32	Background	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
32	Background	E007	10/08/2024	Molybdenum, total	0.0025 U	mg/L
32	Background	E007	10/08/2024	Oxidation Reduction Potential	59.5	mV
32	Background	E007	10/08/2024	pH (field)	7.1	SU
32	Background	E007	10/08/2024	Radium 226 + Radium 228, total	0.116	pCi/L
32	Background	E007	10/08/2024	Selenium, total	0.00098 U	mg/L
32	Background	E007	10/08/2024	Specific Conductance @ 25C (field)	1,017	micromhos/cm
32	Background	E007	10/08/2024	Sulfate, total	55.0	mg/L
32	Background	E007	10/08/2024	Temperature	14.5	degrees C
32	Background	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
32	Background	E007	10/08/2024	Total Dissolved Solids	530	mg/L
32	Background	E007	10/08/2024	Turbidity, field	4.81	NTU
34	Background	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
34	Background	E007	10/08/2024	Arsenic, total	0.00036 J	mg/L
34	Background	E007	10/08/2024	Barium, total	0.110	mg/L
34	Background	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
34	Background	E007	10/08/2024	Boron, total	0.140 J+	mg/L
34	Background	E007	10/08/2024	Cadmium, total	0.00017 U	mg/L
34	Background	E007	10/08/2024	Calcium, total	170	mg/L
34	Background	E007	10/08/2024	Chloride, total	65.0	mg/L
34	Background	E007	10/08/2024	Chromium, total	0.0011 U	mg/L
34	Background	E007	10/08/2024	Cobalt, total	0.0004 U	mg/L
34	Background	E007	10/08/2024	Dissolved Oxygen	0.240	mg/L
34	Background	E007	10/08/2024	Fluoride, total	0.150	mg/L
34	Background	E007	10/08/2024	Lead, total	0.00019 U	mg/L
34	Background	E007	10/08/2024	Lithium, total	0.0130	mg/L
34	Background	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
34	Background	E007	10/08/2024	Molybdenum, total	0.0025 U	mg/L
34	Background	E007	10/08/2024	Oxidation Reduction Potential	-134	mV
34	Background	E007	10/08/2024	pH (field)	7.0	SU
34	Background	E007	10/08/2024	Radium 226 + Radium 228, total	0.794	pCi/L
34	Background	E007	10/08/2024	Selenium, total	0.00098 U	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
34	Background	E007	10/08/2024	Specific Conductance @ 25C (field)	1,407	micromhos/cm
34	Background	E007	10/08/2024	Sulfate, total	38.0	mg/L
34	Background	E007	10/08/2024	Temperature	12.6	degrees C
34	Background	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
34	Background	E007	10/08/2024	Total Dissolved Solids	770	mg/L
34	Background	E007	10/08/2024	Turbidity, field	4.91	NTU
21R	Compliance	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
21R	Compliance	E007	10/08/2024	Arsenic, total	0.0220	mg/L
21R	Compliance	E007	10/08/2024	Barium, total	0.270	mg/L
21R	Compliance	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
21R	Compliance	E007	10/08/2024	Boron, total	2.10	mg/L
21R	Compliance	E007	10/08/2024	Cadmium, total	0.00017 U	mg/L
21R	Compliance	E007	10/08/2024	Calcium, total	130	mg/L
21R	Compliance	E007	10/08/2024	Chloride, total	83.0	mg/L
21R	Compliance	E007	10/08/2024	Chromium, total	0.0017 J	mg/L
21R	Compliance	E007	10/08/2024	Cobalt, total	0.00072 J	mg/L
21R	Compliance	E007	10/08/2024	Dissolved Oxygen	1.26	mg/L
21R	Compliance	E007	10/08/2024	Fluoride, total	0.140	mg/L
21R	Compliance	E007	10/08/2024	Lead, total	0.00120	mg/L
21R	Compliance	E007	10/08/2024	Lithium, total	0.0240	mg/L
21R	Compliance	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
21R	Compliance	E007	10/08/2024	Molybdenum, total	0.00790	mg/L
21R	Compliance	E007	10/08/2024	Oxidation Reduction Potential	-162	mV
21R	Compliance	E007	10/08/2024	pH (field)	7.4	SU
21R	Compliance	E007	10/08/2024	Radium 226 + Radium 228, total	0.391	pCi/L
21R	Compliance	E007	10/08/2024	Selenium, total	0.00098 U	mg/L
21R	Compliance	E007	10/08/2024	Specific Conductance @ 25C (field)	1,203	micromhos/cm
21R	Compliance	E007	10/08/2024	Sulfate, total	74.0	mg/L
21R	Compliance	E007	10/08/2024	Temperature	14.3	degrees C
21R	Compliance	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
21R	Compliance	E007	10/08/2024	Total Dissolved Solids	600	mg/L
21R	Compliance	E007	10/08/2024	Turbidity, field	36.8	NTU
22	Compliance	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
22	Compliance	E007	10/09/2024	Arsenic, total	0.00071 J	mg/L
22	Compliance	E007	10/09/2024	Barium, total	0.0540	mg/L
22	Compliance	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
22	Compliance	E007	10/09/2024	Boron, total	3.10	mg/L
22	Compliance	E007	10/09/2024	Cadmium, total	0.00450	mg/L
22	Compliance	E007	10/09/2024	Calcium, total	91.0	mg/L
22	Compliance	E007	10/09/2024	Chloride, total	86.0	mg/L
22	Compliance	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
22	Compliance	E007	10/09/2024	Cobalt, total	0.00190	mg/L
22	Compliance	E007	10/09/2024	Dissolved Oxygen	0.500	mg/L
22	Compliance	E007	10/09/2024	Fluoride, total	0.150	mg/L
22	Compliance	E007	10/09/2024	Lead, total	0.00037 J	mg/L
22	Compliance	E007	10/09/2024	Lithium, total	0.0480	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
22	Compliance	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
22	Compliance	E007	10/09/2024	Molybdenum, total	0.0650	mg/L
22	Compliance	E007	10/09/2024	Oxidation Reduction Potential	-58.1	mV
22	Compliance	E007	10/09/2024	pH (field)	7.6	SU
22	Compliance	E007	10/09/2024	Radium 226 + Radium 228, total	0.0222	pCi/L
22	Compliance	E007	10/09/2024	Selenium, total	0.0130	mg/L
22	Compliance	E007	10/09/2024	Specific Conductance @ 25C (field)	1,082	micromhos/cm
22	Compliance	E007	10/09/2024	Sulfate, total	120	mg/L
22	Compliance	E007	10/09/2024	Temperature	15.8	degrees C
22	Compliance	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
22	Compliance	E007	10/09/2024	Total Dissolved Solids	600	mg/L
22	Compliance	E007	10/09/2024	Turbidity, field	6.74	NTU
22D	Compliance	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
22D	Compliance	E007	10/09/2024	Arsenic, total	0.0009 J	mg/L
22D	Compliance	E007	10/09/2024	Barium, total	0.0630	mg/L
22D	Compliance	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
22D	Compliance	E007	10/09/2024	Boron, total	1.40	mg/L
22D	Compliance	E007	10/09/2024	Cadmium, total	0.00017 U	mg/L
22D	Compliance	E007	10/09/2024	Calcium, total	120	mg/L
22D	Compliance	E007	10/09/2024	Chloride, total	89.0	mg/L
22D	Compliance	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
22D	Compliance	E007	10/09/2024	Cobalt, total	0.0004 U	mg/L
22D	Compliance	E007	10/09/2024	Dissolved Oxygen	0.580	mg/L
22D	Compliance	E007	10/09/2024	Fluoride, total	0.110	mg/L
22D	Compliance	E007	10/09/2024	Lead, total	0.0003 J	mg/L
22D	Compliance	E007	10/09/2024	Lithium, total	0.0150	mg/L
22D	Compliance	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
22D	Compliance	E007	10/09/2024	Molybdenum, total	0.00610	mg/L
22D	Compliance	E007	10/09/2024	Oxidation Reduction Potential	-131	mV
22D	Compliance	E007	10/09/2024	pH (field)	7.2	SU
22D	Compliance	E007	10/09/2024	Radium 226 + Radium 228, total	1.59	pCi/L
22D	Compliance	E007	10/09/2024	Selenium, total	0.00098 U	mg/L
22D	Compliance	E007	10/09/2024	Specific Conductance @ 25C (field)	1,174	micromhos/cm
22D	Compliance	E007	10/09/2024	Sulfate, total	86.0	mg/L
22D	Compliance	E007	10/09/2024	Temperature	16.1	degrees C
22D	Compliance	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
22D	Compliance	E007	10/09/2024	Total Dissolved Solids	610	mg/L
22D	Compliance	E007	10/09/2024	Turbidity, field	6.94	NTU
23	Compliance	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
23	Compliance	E007	10/09/2024	Arsenic, total	0.0005 J	mg/L
23	Compliance	E007	10/09/2024	Barium, total	0.0370	mg/L
23	Compliance	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
23	Compliance	E007	10/09/2024	Boron, total	8.70	mg/L
23	Compliance	E007	10/09/2024	Cadmium, total	0.00017 U	mg/L
23	Compliance	E007	10/09/2024	Calcium, total	110	mg/L
23	Compliance	E007	10/09/2024	Chloride, total	50.0	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
23	Compliance	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
23	Compliance	E007	10/09/2024	Cobalt, total	0.0004 U	mg/L
23	Compliance	E007	10/09/2024	Dissolved Oxygen	0.0600	mg/L
23	Compliance	E007	10/09/2024	Fluoride, total	0.160	mg/L
23	Compliance	E007	10/09/2024	Lead, total	0.00019 U	mg/L
23	Compliance	E007	10/09/2024	Lithium, total	0.0037 J	mg/L
23	Compliance	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
23	Compliance	E007	10/09/2024	Molybdenum, total	0.0130	mg/L
23	Compliance	E007	10/09/2024	Oxidation Reduction Potential	-29.7	mV
23	Compliance	E007	10/09/2024	pH (field)	7.4	SU
23	Compliance	E007	10/09/2024	Radium 226 + Radium 228, total	0.165	pCi/L
23	Compliance	E007	10/09/2024	Selenium, total	0.00098 U	mg/L
23	Compliance	E007	10/09/2024	Specific Conductance @ 25C (field)	1,329	micromhos/cm
23	Compliance	E007	10/09/2024	Sulfate, total	410	mg/L
23	Compliance	E007	10/09/2024	Temperature	13.2	degrees C
23	Compliance	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
23	Compliance	E007	10/09/2024	Total Dissolved Solids	920	mg/L
23	Compliance	E007	10/09/2024	Turbidity, field	8.27	NTU
27	Compliance	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
27	Compliance	E007	10/08/2024	Arsenic, total	0.00140	mg/L
27	Compliance	E007	10/08/2024	Barium, total	0.0820	mg/L
27	Compliance	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
27	Compliance	E007	10/08/2024	Boron, total	2.40	mg/L
27	Compliance	E007	10/08/2024	Cadmium, total	0.00039 J	mg/L
27	Compliance	E007	10/08/2024	Calcium, total	130	mg/L
27	Compliance	E007	10/08/2024	Chloride, total	86.0	mg/L
27	Compliance	E007	10/08/2024	Chromium, total	0.0011 U	mg/L
27	Compliance	E007	10/08/2024	Cobalt, total	0.00130	mg/L
27	Compliance	E007	10/08/2024	Dissolved Oxygen	0.540	mg/L
27	Compliance	E007	10/08/2024	Fluoride, total	0.140	mg/L
27	Compliance	E007	10/08/2024	Lead, total	0.000720	mg/L
27	Compliance	E007	10/08/2024	Lithium, total	0.0200	mg/L
27	Compliance	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
27	Compliance	E007	10/08/2024	Molybdenum, total	0.0046 J	mg/L
27	Compliance	E007	10/08/2024	Oxidation Reduction Potential	-78.3	mV
27	Compliance	E007	10/08/2024	pH (field)	7.2	SU
27	Compliance	E007	10/08/2024	Radium 226 + Radium 228, total	0.194	pCi/L
27	Compliance	E007	10/08/2024	Selenium, total	0.00098 U	mg/L
27	Compliance	E007	10/08/2024	Specific Conductance @ 25C (field)	1,178	micromhos/cm
27	Compliance	E007	10/08/2024	Sulfate, total	110	mg/L
27	Compliance	E007	10/08/2024	Temperature	12.6	degrees C
27	Compliance	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
27	Compliance	E007	10/08/2024	Total Dissolved Solids	670	mg/L
27	Compliance	E007	10/08/2024	Turbidity, field	33.7	NTU
35	Compliance	E007	10/08/2024	Antimony, total	0.0013 U	mg/L
35	Compliance	E007	10/08/2024	Arsenic, total	0.00039 J	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
35	Compliance	E007	10/08/2024	Barium, total	0.0460	mg/L
35	Compliance	E007	10/08/2024	Beryllium, total	0.00053 U	mg/L
35	Compliance	E007	10/08/2024	Boron, total	20.0	mg/L
35	Compliance	E007	10/08/2024	Cadmium, total	0.00039 J	mg/L
35	Compliance	E007	10/08/2024	Calcium, total	390	mg/L
35	Compliance	E007	10/08/2024	Chloride, total	14.0	mg/L
35	Compliance	E007	10/08/2024	Chromium, total	0.0011 U	mg/L
35	Compliance	E007	10/08/2024	Cobalt, total	0.00081 J	mg/L
35	Compliance	E007	10/08/2024	Dissolved Oxygen	0.400	mg/L
35	Compliance	E007	10/08/2024	Fluoride, total	0.140	mg/L
35	Compliance	E007	10/08/2024	Lead, total	0.00019 U	mg/L
35	Compliance	E007	10/08/2024	Lithium, total	0.0310	mg/L
35	Compliance	E007	10/08/2024	Mercury, total	0.000076 U	mg/L
35	Compliance	E007	10/08/2024	Molybdenum, total	0.0740	mg/L
35	Compliance	E007	10/08/2024	Oxidation Reduction Potential	42.1	mV
35	Compliance	E007	10/08/2024	pH (field)	6.9	SU
35	Compliance	E007	10/08/2024	Radium 226 + Radium 228, total	0.0704	pCi/L
35	Compliance	E007	10/08/2024	Selenium, total	0.00098 U	mg/L
35	Compliance	E007	10/08/2024	Specific Conductance @ 25C (field)	2,098	micromhos/cm
35	Compliance	E007	10/08/2024	Sulfate, total	970	mg/L
35	Compliance	E007	10/08/2024	Temperature	17.0	degrees C
35	Compliance	E007	10/08/2024	Thallium, total	0.00057 U	mg/L
35	Compliance	E007	10/08/2024	Total Dissolved Solids	1,700	mg/L
35	Compliance	E007	10/08/2024	Turbidity, field	3.82	NTU
49	Compliance	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
49	Compliance	E007	10/09/2024	Arsenic, total	0.00023 U	mg/L
49	Compliance	E007	10/09/2024	Barium, total	0.0670	mg/L
49	Compliance	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
49	Compliance	E007	10/09/2024	Boron, total	0.690	mg/L
49	Compliance	E007	10/09/2024	Cadmium, total	0.00120	mg/L
49	Compliance	E007	10/09/2024	Calcium, total	120	mg/L
49	Compliance	E007	10/09/2024	Chloride, total	99.0	mg/L
49	Compliance	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
49	Compliance	E007	10/09/2024	Cobalt, total	0.00290	mg/L
49	Compliance	E007	10/09/2024	Dissolved Oxygen	0.520	mg/L
49	Compliance	E007	10/09/2024	Fluoride, total	0.150	mg/L
49	Compliance	E007	10/09/2024	Lead, total	0.00019 U	mg/L
49	Compliance	E007	10/09/2024	Lithium, total	0.0230	mg/L
49	Compliance	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
49	Compliance	E007	10/09/2024	Molybdenum, total	0.0240	mg/L
49	Compliance	E007	10/09/2024	Oxidation Reduction Potential	11.4	mV
49	Compliance	E007	10/09/2024	pH (field)	7.0	SU
49	Compliance	E007	10/09/2024	Radium 226 + Radium 228, total	0.056	pCi/L
49	Compliance	E007	10/09/2024	Selenium, total	0.00098 U	mg/L
49	Compliance	E007	10/09/2024	Specific Conductance @ 25C (field)	1,168	micromhos/cm
49	Compliance	E007	10/09/2024	Sulfate, total	75.0	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
49	Compliance	E007	10/09/2024	Temperature	14.6	degrees C
49	Compliance	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
49	Compliance	E007	10/09/2024	Total Dissolved Solids	600	mg/L
49	Compliance	E007	10/09/2024	Turbidity, field	77.0	NTU
50	Compliance	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
50	Compliance	E007	10/09/2024	Arsenic, total	0.00062 J	mg/L
50	Compliance	E007	10/09/2024	Barium, total	0.0930	mg/L
50	Compliance	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
50	Compliance	E007	10/09/2024	Boron, total	1.00	mg/L
50	Compliance	E007	10/09/2024	Cadmium, total	0.00110	mg/L
50	Compliance	E007	10/09/2024	Calcium, total	120	mg/L
50	Compliance	E007	10/09/2024	Chloride, total	79.0	mg/L
50	Compliance	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
50	Compliance	E007	10/09/2024	Cobalt, total	0.00280	mg/L
50	Compliance	E007	10/09/2024	Dissolved Oxygen	0.480	mg/L
50	Compliance	E007	10/09/2024	Fluoride, total	0.120	mg/L
50	Compliance	E007	10/09/2024	Lead, total	0.0002 J	mg/L
50	Compliance	E007	10/09/2024	Lithium, total	0.0270	mg/L
50	Compliance	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
50	Compliance	E007	10/09/2024	Molybdenum, total	0.0400	mg/L
50	Compliance	E007	10/09/2024	Oxidation Reduction Potential	-20.3	mV
50	Compliance	E007	10/09/2024	pH (field)	7.4	SU
50	Compliance	E007	10/09/2024	Radium 226 + Radium 228, total	0.917	pCi/L
50	Compliance	E007	10/09/2024	Selenium, total	0.00098 U	mg/L
50	Compliance	E007	10/09/2024	Specific Conductance @ 25C (field)	1,070	micromhos/cm
50	Compliance	E007	10/09/2024	Sulfate, total	95.0	mg/L
50	Compliance	E007	10/09/2024	Temperature	16.1	degrees C
50	Compliance	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
50	Compliance	E007	10/09/2024	Total Dissolved Solids	610	mg/L
50	Compliance	E007	10/09/2024	Turbidity, field	5.78	NTU
51	Compliance	E007	10/09/2024	Antimony, total	0.0013 U	mg/L
51	Compliance	E007	10/09/2024	Arsenic, total	0.0220	mg/L
51	Compliance	E007	10/09/2024	Barium, total	0.120	mg/L
51	Compliance	E007	10/09/2024	Beryllium, total	0.00053 U	mg/L
51	Compliance	E007	10/09/2024	Boron, total	1.50	mg/L
51	Compliance	E007	10/09/2024	Cadmium, total	0.00017 U	mg/L
51	Compliance	E007	10/09/2024	Calcium, total	120	mg/L
51	Compliance	E007	10/09/2024	Chloride, total	93.0	mg/L
51	Compliance	E007	10/09/2024	Chromium, total	0.0011 U	mg/L
51	Compliance	E007	10/09/2024	Cobalt, total	0.0006 J	mg/L
51	Compliance	E007	10/09/2024	Dissolved Oxygen	0.630	mg/L
51	Compliance	E007	10/09/2024	Fluoride, total	0.130	mg/L
51	Compliance	E007	10/09/2024	Lead, total	0.000590	mg/L
51	Compliance	E007	10/09/2024	Lithium, total	0.0250	mg/L
51	Compliance	E007	10/09/2024	Mercury, total	0.000076 U	mg/L
51	Compliance	E007	10/09/2024	Molybdenum, total	0.00940	mg/L

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

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

Well ID	Well Type	Event	Date	Parameter	Result	Unit
51	Compliance	E007	10/09/2024	Oxidation Reduction Potential	-153	mV
51	Compliance	E007	10/09/2024	pH (field)	7.3	SU
51	Compliance	E007	10/09/2024	Radium 226 + Radium 228, total	1.55	pCi/L
51	Compliance	E007	10/09/2024	Selenium, total	0.00098 U	mg/L
51	Compliance	E007	10/09/2024	Specific Conductance @ 25C (field)	1,191	micromhos/cm
51	Compliance	E007	10/09/2024	Sulfate, total	84.0	mg/L
51	Compliance	E007	10/09/2024	Temperature	12.6	degrees C
51	Compliance	E007	10/09/2024	Thallium, total	0.00057 U	mg/L
51	Compliance	E007	10/09/2024	Total Dissolved Solids	650	mg/L
51	Compliance	E007	10/09/2024	Turbidity, field	14.9	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
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
21/21R	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.003	0.006	Standard	No Exceedance
21/21R	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.0252	0.010	Standard	Exceedance
21/21R	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.32	2.0	Standard	No Exceedance
21/21R	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.001	0.004	Standard	No Exceedance
21/21R	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	31	0	CB around T-S line	1.89	2	Standard	No Exceedance
21/21R	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
21/21R	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	98.8	200	Standard	No Exceedance
21/21R	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	30	62	CB around T-S line	0.00173	0.1	Standard	No Exceedance
21/21R	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	30	69	CB around T-S line	0.001	0.006	Standard	No Exceedance
21/21R	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	31	9	CI around median	0.14	4.0	Standard	No Exceedance
21/21R	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	30	50	CB around T-S line	0.00167	0.0075	Standard	No Exceedance
21/21R	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.0216	0.04	Standard	No Exceedance
21/21R	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	30	97	CI around median	0.0002	0.002	Standard	No Exceedance
21/21R	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	30	3	CB around linear reg	0.00761	0.1	Standard	No Exceedance
21/21R	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	33	0	CI around mean	7.3/7.5	6.5/9.0	Standard/Standard	No Exceedance
21/21R	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	23	0	CI around mean	0.863	5	Standard	No Exceedance
21/21R	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
21/21R	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	56.9	400	Standard	No Exceedance
21/21R	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.002	0.002	Standard	No Exceedance
21/21R	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	31	0	CB around T-S line	630	1,200	Standard	No Exceedance
22	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	33	91	CB around T-S line	0.001	0.006	Standard	No Exceedance
22	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	37	72	CI around median	0.001	0.010	Standard	No Exceedance
22	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	33	0	CI around median	0.063	2.0	Standard	No Exceedance
22	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	33	100	All ND - Last	0.001	0.004	Standard	No Exceedance
22	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	38	0	CB around T-S line	3.12	2	Standard	Exceedance
22	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	33	9	CB around T-S line	0.00552	0.005	Standard	Exceedance
22	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	40	0	CB around T-S line	89.9	200	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
22	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	33	100	All ND - Last	0.005	0.1	Standard	No Exceedance
22	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	33	9	CI around mean	0.00193	0.006	Standard	No Exceedance
22	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	33	5	CI around median	0.15	4.0	Standard	No Exceedance
22	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	33	97	CI around median	0.001	0.0075	Standard	No Exceedance
22	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	37	0	CB around T-S line	0.042	0.04	Standard	Exceedance
22	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	31	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
22	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	37	0	CB around T-S line	0.0661	0.1	Standard	No Exceedance
22	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	36	0	CI around mean	7.5/7.7	6.5/9.0	Standard/Standard	No Exceedance
22	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	24	0	CI around mean	0.375	5	Standard	No Exceedance
22	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	33	6	CB around linear reg	0.015	0.05	Standard	No Exceedance
22	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	40	0	CB around linear reg	100	400	Standard	No Exceedance
22	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	33	94	CB around T-S line	0.002	0.002	Standard	No Exceedance
22	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	40	0	CB around linear reg	587	1,200	Standard	No Exceedance
22D	UA	E004	Antimony, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.003	0.006	Standard	No Exceedance
22D	UA	E004	Arsenic, total	mg/L	09/17/19 - 01/23/24	17	6	CI around median	0.0012	0.010	Standard	No Exceedance
22D	UA	E004	Barium, total	mg/L	09/17/19 - 01/23/24	17	0	CB around T-S line	0.0662	2.0	Standard	No Exceedance
22D	UA	E004	Beryllium, total	mg/L	09/17/19 - 01/23/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
22D	UA	E004	Boron, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	1.16	2	Standard	No Exceedance
22D	UA	E004	Cadmium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
22D	UA	E004	Chloride, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	95.8	200	Standard	No Exceedance
22D	UA	E004	Chromium, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.0015	0.1	Standard	No Exceedance
22D	UA	E004	Cobalt, total	mg/L	09/17/19 - 01/23/24	17	94	CI around median	0.001	0.006	Standard	No Exceedance
22D	UA	E004	Fluoride, total	mg/L	09/17/19 - 01/23/24	17	12	CI around median	0.11	4.0	Standard	No Exceedance
22D	UA	E004	Lead, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.001	0.0075	Standard	No Exceedance
22D	UA	E004	Lithium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.0147	0.04	Standard	No Exceedance
22D	UA	E004	Mercury, total	mg/L	12/11/19 - 01/23/24	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
22D	UA	E004	Molybdenum, total	mg/L	09/17/19 - 01/23/24	17	6	CI around geomean	0.0066	0.1	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
22D	UA	E004	pH (field)	SU	09/17/19 - 01/23/24	20	0	CI around mean	7.2/7.3	6.5/9.0	Standard/Standard	No Exceedance
22D	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 01/23/24	14	0	CI around mean	0.665	5	Standard	No Exceedance
22D	UA	E004	Selenium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
22D	UA	E004	Sulfate, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	87.7	400	Standard	No Exceedance
22D	UA	E004	Thallium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
22D	UA	E004	Total Dissolved Solids	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	605	1,200	Standard	No Exceedance
23	UA	E004	Antimony, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.003	0.006	Standard	No Exceedance
23	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/24/24	37	92	CB around T-S line	0.001	0.010	Standard	No Exceedance
23	UA	E004	Barium, total	mg/L	12/10/15 - 01/24/24	33	0	CB around T-S line	0.0378	2.0	Standard	No Exceedance
23	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.001	0.004	Standard	No Exceedance
23	UA	E004	Boron, total	mg/L	12/10/15 - 01/24/24	38	0	CB around T-S line	8.23	2	Standard	Exceedance
23	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
23	UA	E004	Chloride, total	mg/L	12/10/15 - 01/24/24	40	1	CB around T-S line	51.1	200	Standard	No Exceedance
23	UA	E004	Chromium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.005	0.1	Standard	No Exceedance
23	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.001	0.006	Standard	No Exceedance
23	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/24/24	33	5	CI around median	0.15	4.0	Standard	No Exceedance
23	UA	E004	Lead, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
23	UA	E004	Lithium, total	mg/L	12/10/15 - 01/24/24	37	8	CI around median	0.0048	0.04	Standard	No Exceedance
23	UA	E004	Mercury, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
23	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/24/24	37	0	CI around median	0.0147	0.1	Standard	No Exceedance
23	UA	E004	pH (field)	SU	12/10/15 - 01/24/24	35	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
23	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/24/24	24	0	CI around mean	0.268	5	Standard	No Exceedance
23	UA	E004	Selenium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
23	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/24/24	40	0	CI around median	421	400	Standard	Exceedance
23	UA	E004	Thallium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.002	0.002	Standard	No Exceedance
23	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/24/24	40	0	CI around mean	886	1,200	Standard	No Exceedance
24/51	UA	E004	Antimony, total	mg/L	12/10/15 - 01/24/24	31	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
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
24/51	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/24/24	35	0	CI around mean	0.0204	0.010	Standard	Exceedance
24/51	UA	E004	Barium, total	mg/L	12/10/15 - 01/24/24	31	0	CB around linear reg	0.111	2.0	Standard	No Exceedance
24/51	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.001	0.004	Standard	No Exceedance
24/51	UA	E004	Boron, total	mg/L	12/10/15 - 01/24/24	36	0	CB around linear reg	1.34	2	Standard	No Exceedance
24/51	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
24/51	UA	E004	Chloride, total	mg/L	12/10/15 - 01/24/24	38	0	CB around linear reg	105	200	Standard	No Exceedance
24/51	UA	E004	Chromium, total	mg/L	12/10/15 - 01/24/24	31	76	CB around T-S line	0.0015	0.1	Standard	No Exceedance
24/51	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/24/24	31	73	CI around median	0.001	0.006	Standard	No Exceedance
24/51	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/24/24	31	6	CB around T-S line	0.12	4.0	Standard	No Exceedance
24/51	UA	E004	Lead, total	mg/L	12/10/15 - 01/24/24	31	64	CB around T-S line	0.001	0.0075	Standard	No Exceedance
24/51	UA	E004	Lithium, total	mg/L	12/10/15 - 01/24/24	35	0	CB around T-S line	0.0233	0.04	Standard	No Exceedance
24/51	UA	E004	Mercury, total	mg/L	12/10/15 - 01/24/24	30	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
24/51	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/24/24	35	3	CI around mean	0.0098	0.1	Standard	No Exceedance
24/51	UA	E004	pH (field)	SU	12/10/15 - 01/24/24	33	0	CB around linear reg	7.2/7.4	6.5/9.0	Standard/Standard	No Exceedance
24/51	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/24/24	23	0	CB around linear reg	1.33	5	Standard	No Exceedance
24/51	UA	E004	Selenium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
24/51	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/24/24	38	0	CB around linear reg	81.8	400	Standard	No Exceedance
24/51	UA	E004	Thallium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.002	0.002	Standard	No Exceedance
24/51	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/24/24	38	0	CI around mean	619	1,200	Standard	No Exceedance
27	UA	E004	Antimony, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
27	UA	E004	Arsenic, total	mg/L	09/12/18 - 01/23/24	20	59	CI around median	0.001	0.010	Standard	No Exceedance
27	UA	E004	Barium, total	mg/L	09/12/18 - 01/23/24	20	0	CI around geomean	0.0843	2.0	Standard	No Exceedance
27	UA	E004	Beryllium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
27	UA	E004	Boron, total	mg/L	09/12/18 - 01/23/24	20	0	CB around linear reg	1.41	2	Standard	No Exceedance
27	UA	E004	Cadmium, total	mg/L	09/12/18 - 01/23/24	20	96	CI around median	0.001	0.005	Standard	No Exceedance
27	UA	E004	Chloride, total	mg/L	03/08/16 - 01/23/24	25	0	CB around T-S line	93.3	200	Standard	No Exceedance
27	UA	E004	Chromium, total	mg/L	09/12/18 - 01/23/24	20	77	CI around median	0.0015	0.1	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
27	UA	E004	Cobalt, total	mg/L	09/12/18 - 01/23/24	20	9	CI around mean	0.00196	0.006	Standard	No Exceedance
27	UA	E004	Fluoride, total	mg/L	09/12/18 - 01/23/24	20	4	CI around median	0.12	4.0	Standard	No Exceedance
27	UA	E004	Lead, total	mg/L	09/12/18 - 01/23/24	20	54	CI around median	0.001	0.0075	Standard	No Exceedance
27	UA	E004	Lithium, total	mg/L	09/12/18 - 01/23/24	20	0	CI around mean	0.0215	0.04	Standard	No Exceedance
27	UA	E004	Mercury, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
27	UA	E004	Molybdenum, total	mg/L	09/12/18 - 01/23/24	20	20	CI around median	0.0043	0.1	Standard	No Exceedance
27	UA	E004	pH (field)	SU	03/08/16 - 01/23/24	25	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
27	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/12/18 - 01/23/24	14	0	CI around geomean	0.219	5	Standard	No Exceedance
27	UA	E004	Selenium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
27	UA	E004	Sulfate, total	mg/L	03/08/16 - 01/23/24	25	0	CI around geomean	121	400	Standard	No Exceedance
27	UA	E004	Thallium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
27	UA	E004	Total Dissolved Solids	mg/L	03/08/16 - 01/23/24	25	0	CI around median	638	1,200	Standard	No Exceedance
35	UA	E004	Antimony, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.003	0.006	Standard	No Exceedance
35	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/23/24	32	78	CI around median	0.001	0.010	Standard	No Exceedance
35	UA	E004	Barium, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0404	2.0	Standard	No Exceedance
35	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.001	0.004	Standard	No Exceedance
35	UA	E004	Boron, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	10.6	2	Standard	Exceedance
35	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
35	UA	E004	Chloride, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	23.9	200	Standard	No Exceedance
35	UA	E004	Chromium, total	mg/L	12/09/15 - 01/23/24	32	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
35	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/23/24	32	41	CI around median	0.001	0.006	Standard	No Exceedance
35	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/23/24	33	3	CI around median	0.17	4.0	Standard	No Exceedance
35	UA	E004	Lead, total	mg/L	12/09/15 - 01/23/24	32	91	CI around median	0.001	0.0075	Standard	No Exceedance
35	UA	E004	Lithium, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0241	0.04	Standard	No Exceedance
35	UA	E004	Mercury, total	mg/L	12/09/15 - 01/23/24	31	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
35	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0658	0.1	Standard	No Exceedance
35	UA	E004	pH (field)	SU	12/09/15 - 01/23/24	33	0	CB around linear reg	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
35	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/23/24	25	0	CI around median	0.31	5	Standard	No Exceedance
35	UA	E004	Selenium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
35	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	585	400	Standard	Exceedance
35	UA	E004	Thallium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.002	0.002	Standard	No Exceedance
35	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	1,170	1,200	Standard	No Exceedance
49	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.003	0.006	Standard	No Exceedance
49	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	32	97	CI around median	0.001	0.010	Standard	No Exceedance
49	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	32	0	CB around T-S line	0.0613	2.0	Standard	No Exceedance
49	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.001	0.004	Standard	No Exceedance
49	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	0.457	2	Standard	No Exceedance
49	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	32	28	CB around linear reg	0.0015	0.005	Standard	No Exceedance
49	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	33	0	CI around median	100	200	Standard	No Exceedance
49	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	32	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
49	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	32	0	CI around mean	0.00443	0.006	Standard	No Exceedance
49	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	33	3	CI around median	0.15	4.0	Standard	No Exceedance
49	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	32	91	CI around median	0.001	0.0075	Standard	No Exceedance
49	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	32	0	CB around linear reg	0.0215	0.04	Standard	No Exceedance
49	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	31	100	All ND - Last	0.0005	0.002	Standard	No Exceedance
49	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	32	0	CB around T-S line	0.0228	0.1	Standard	No Exceedance
49	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	34	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
49	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	25	0	CI around mean	0.345	5	Standard	No Exceedance
49	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
49	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	69.3	400	Standard	No Exceedance
49	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.002	0.002	Standard	No Exceedance
49	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	573	1,200	Standard	No Exceedance
50	UA	E004	Antimony, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.003	0.006	Standard	No Exceedance
50	UA	E004	Arsenic, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.001	0.010	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
50	UA	E004	Barium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.0857	2.0	Standard	No Exceedance
50	UA	E004	Beryllium, total	mg/L	09/17/19 - 01/23/24	16	100	All ND - Last	0.001	0.004	Standard	No Exceedance
50	UA	E004	Boron, total	mg/L	09/17/19 - 01/23/24	17	0	CI around geomean	0.71	2	Standard	No Exceedance
50	UA	E004	Cadmium, total	mg/L	09/17/19 - 01/23/24	17	6	CI around median	0.0012	0.005	Standard	No Exceedance
50	UA	E004	Chloride, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	89.2	200	Standard	No Exceedance
50	UA	E004	Chromium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.005	0.1	Standard	No Exceedance
50	UA	E004	Cobalt, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.00435	0.006	Standard	No Exceedance
50	UA	E004	Fluoride, total	mg/L	09/17/19 - 01/23/24	17	24	CB around T-S line	0.116	4.0	Standard	No Exceedance
50	UA	E004	Lead, total	mg/L	09/17/19 - 01/23/24	17	94	CI around median	0.001	0.0075	Standard	No Exceedance
50	UA	E004	Lithium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around median	0.0201	0.04	Standard	No Exceedance
50	UA	E004	Mercury, total	mg/L	12/11/19 - 01/23/24	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
50	UA	E004	Molybdenum, total	mg/L	09/17/19 - 01/23/24	17	0	CB around T-S line	0.0297	0.1	Standard	No Exceedance
50	UA	E004	pH (field)	SU	09/17/19 - 01/23/24	20	0	CB around linear reg	7.3/7.6	6.5/9.0	Standard/Standard	No Exceedance
50	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 01/23/24	13	0	CI around mean	0.584	5	Standard	No Exceedance
50	UA	E004	Selenium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
50	UA	E004	Sulfate, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	87.4	400	Standard	No Exceedance
50	UA	E004	Thallium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.002	0.002	Standard	No Exceedance
50	UA	E004	Total Dissolved Solids	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	607	1,200	Standard	No Exceedance

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

Notes:

Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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

Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

GWPS = Groundwater Protection Standard

GWPS Source:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Notes:

Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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

Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

GWPS = Groundwater Protection Standard

GWPS Source:

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

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

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
21/21R	UA	E006	Antimony, total	mg/L	03/11/20 - 08/06/24	19	100	All ND - Last	0.003	0.006	Standard	No Exceedance
21/21R	UA	E006	Arsenic, total	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	0.0237	0.010	Standard	Exceedance
21/21R	UA	E006	Barium, total	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	0.297	2.0	Standard	No Exceedance
21/21R	UA	E006	Beryllium, total	mg/L	03/11/20 - 08/06/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
21/21R	UA	E006	Boron, total	mg/L	03/11/20 - 08/06/24	19	0	CB around linear reg	1.57	2	Standard	No Exceedance
21/21R	UA	E006	Cadmium, total	mg/L	03/11/20 - 08/06/24	19	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
21/21R	UA	E006	Chloride, total	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	86.9	200	Standard	No Exceedance
21/21R	UA	E006	Chromium, total	mg/L	03/11/20 - 08/06/24	19	42	CI around median	0.0015	0.1	Standard	No Exceedance
21/21R	UA	E006	Cobalt, total	mg/L	03/11/20 - 08/06/24	19	47	CI around median	0.001	0.006	Standard	No Exceedance
21/21R	UA	E006	Fluoride, total	mg/L	03/11/20 - 08/06/24	19	10	CI around median	0.14	4.0	Standard	No Exceedance
21/21R	UA	E006	Lead, total	mg/L	03/11/20 - 08/06/24	19	5	CI around mean	0.00208	0.0075	Standard	No Exceedance
21/21R	UA	E006	Lithium, total	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	0.0207	0.04	Standard	No Exceedance
21/21R	UA	E006	Mercury, total	mg/L	03/11/20 - 08/06/24	19	95	CI around median	0.0002	0.002	Standard	No Exceedance
21/21R	UA	E006	Molybdenum, total	mg/L	03/11/20 - 08/06/24	19	5	CI around mean	0.00825	0.1	Standard	No Exceedance
21/21R	UA	E006	pH (field)	SU	03/11/20 - 08/06/24	19	0	CI around mean	7.3/7.5	6.5/9.0	Standard/Standard	No Exceedance
21/21R	UA	E006	Radium 226 + Radium 228, total	pCi/L	03/11/20 - 08/06/24	14	0	CI around mean	1.03	5	Standard	No Exceedance
21/21R	UA	E006	Selenium, total	mg/L	03/11/20 - 08/06/24	19	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
21/21R	UA	E006	Sulfate, total	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	87.9	400	Standard	No Exceedance
21/21R	UA	E006	Thallium, total	mg/L	03/11/20 - 08/06/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
21/21R	UA	E006	Total Dissolved Solids	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	625	1,200	Standard	No Exceedance
22	UA	E006	Antimony, total	mg/L	12/10/15 - 08/06/24	35	92	CB around T-S line	0.001	0.006	Standard	No Exceedance
22	UA	E006	Arsenic, total	mg/L	12/10/15 - 08/06/24	39	73	CI around median	0.001	0.010	Standard	No Exceedance
22	UA	E006	Barium, total	mg/L	12/10/15 - 08/06/24	35	0	CI around median	0.0628	2.0	Standard	No Exceedance
22	UA	E006	Beryllium, total	mg/L	12/10/15 - 08/06/24	35	100	All ND - Last	0.001	0.004	Standard	No Exceedance
22	UA	E006	Boron, total	mg/L	12/10/15 - 08/06/24	40	0	CB around T-S line	2.74	2	Standard	Exceedance
22	UA	E006	Cadmium, total	mg/L	12/10/15 - 08/06/24	35	8	CB around T-S line	0.00521	0.005	Standard	Exceedance
22	UA	E006	Chloride, total	mg/L	12/10/15 - 08/06/24	42	0	CB around T-S line	90.7	200	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
22	UA	E006	Chromium, total	mg/L	12/10/15 - 08/06/24	35	100	All ND - Last	0.005	0.1	Standard	No Exceedance
22	UA	E006	Cobalt, total	mg/L	12/10/15 - 08/06/24	35	8	CI around mean	0.00193	0.006	Standard	No Exceedance
22	UA	E006	Fluoride, total	mg/L	12/10/15 - 08/06/24	35	5	CI around median	0.15	4.0	Standard	No Exceedance
22	UA	E006	Lead, total	mg/L	12/10/15 - 08/06/24	35	97	CB around T-S line	0.001	0.0075	Standard	No Exceedance
22	UA	E006	Lithium, total	mg/L	12/10/15 - 08/06/24	39	0	CB around T-S line	0.0447	0.04	Standard	Exceedance
22	UA	E006	Mercury, total	mg/L	12/10/15 - 08/06/24	33	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
22	UA	E006	Molybdenum, total	mg/L	12/10/15 - 08/06/24	39	0	CB around T-S line	0.0546	0.1	Standard	No Exceedance
22	UA	E006	pH (field)	SU	12/10/15 - 08/06/24	38	0	CI around median	7.6/7.7	6.5/9.0	Standard/Standard	No Exceedance
22	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 08/06/24	26	0	CI around mean	0.369	5	Standard	No Exceedance
22	UA	E006	Selenium, total	mg/L	12/10/15 - 08/06/24	35	5	CI around mean	0.0131	0.05	Standard	No Exceedance
22	UA	E006	Sulfate, total	mg/L	12/10/15 - 08/06/24	42	0	CB around linear reg	92.8	400	Standard	No Exceedance
22	UA	E006	Thallium, total	mg/L	12/10/15 - 08/06/24	35	95	CB around T-S line	0.002	0.002	Standard	No Exceedance
22	UA	E006	Total Dissolved Solids	mg/L	12/10/15 - 08/06/24	42	0	CB around linear reg	584	1,200	Standard	No Exceedance
22D	UA	E006	Antimony, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.003	0.006	Standard	No Exceedance
22D	UA	E006	Arsenic, total	mg/L	09/17/19 - 08/06/24	19	10	CI around median	0.0012	0.010	Standard	No Exceedance
22D	UA	E006	Barium, total	mg/L	09/17/19 - 08/06/24	19	0	CB around T-S line	0.0657	2.0	Standard	No Exceedance
22D	UA	E006	Beryllium, total	mg/L	09/17/19 - 08/06/24	18	100	All ND - Last	0.001	0.004	Standard	No Exceedance
22D	UA	E006	Boron, total	mg/L	09/17/19 - 08/06/24	19	0	CB around linear reg	1.13	2	Standard	No Exceedance
22D	UA	E006	Cadmium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
22D	UA	E006	Chloride, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	91.5	200	Standard	No Exceedance
22D	UA	E006	Chromium, total	mg/L	09/17/19 - 08/06/24	19	90	CB around T-S line	0.0015	0.1	Standard	No Exceedance
22D	UA	E006	Cobalt, total	mg/L	09/17/19 - 08/06/24	19	95	CI around median	0.001	0.006	Standard	No Exceedance
22D	UA	E006	Fluoride, total	mg/L	09/17/19 - 08/06/24	19	10	CI around median	0.11	4.0	Standard	No Exceedance
22D	UA	E006	Lead, total	mg/L	09/17/19 - 08/06/24	19	90	CI around median	0.00065	0.0075	Standard	No Exceedance
22D	UA	E006	Lithium, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	0.0149	0.04	Standard	No Exceedance
22D	UA	E006	Mercury, total	mg/L	12/11/19 - 08/06/24	18	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
22D	UA	E006	Molybdenum, total	mg/L	09/17/19 - 08/06/24	19	5	CI around geomean	0.00657	0.1	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
22D	UA	E006	pH (field)	SU	09/17/19 - 08/06/24	22	0	CI around mean	7.2/7.3	6.5/9.0	Standard/Standard	No Exceedance
22D	UA	E006	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 08/06/24	16	0	CI around mean	0.771	5	Standard	No Exceedance
22D	UA	E006	Selenium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
22D	UA	E006	Sulfate, total	mg/L	09/17/19 - 08/06/24	19	0	CB around linear reg	86.3	400	Standard	No Exceedance
22D	UA	E006	Thallium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
22D	UA	E006	Total Dissolved Solids	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	611	1,200	Standard	No Exceedance
23	UA	E006	Antimony, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.003	0.006	Standard	No Exceedance
23	UA	E006	Arsenic, total	mg/L	12/10/15 - 07/18/24	39	90	CB around T-S line	0.001	0.010	Standard	No Exceedance
23	UA	E006	Barium, total	mg/L	12/10/15 - 07/18/24	35	0	CB around T-S line	0.0371	2.0	Standard	No Exceedance
23	UA	E006	Beryllium, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.001	0.004	Standard	No Exceedance
23	UA	E006	Boron, total	mg/L	12/10/15 - 07/18/24	40	0	CB around T-S line	8.44	2	Standard	Exceedance
23	UA	E006	Cadmium, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
23	UA	E006	Chloride, total	mg/L	12/10/15 - 07/18/24	42	1	CB around T-S line	52	200	Standard	No Exceedance
23	UA	E006	Chromium, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.005	0.1	Standard	No Exceedance
23	UA	E006	Cobalt, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.001	0.006	Standard	No Exceedance
23	UA	E006	Fluoride, total	mg/L	12/10/15 - 07/18/24	35	5	CI around median	0.15	4.0	Standard	No Exceedance
23	UA	E006	Lead, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
23	UA	E006	Lithium, total	mg/L	12/10/15 - 07/18/24	39	10	CI around median	0.0048	0.04	Standard	No Exceedance
23	UA	E006	Mercury, total	mg/L	12/10/15 - 07/18/24	33	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
23	UA	E006	Molybdenum, total	mg/L	12/10/15 - 07/18/24	39	0	CI around median	0.0147	0.1	Standard	No Exceedance
23	UA	E006	pH (field)	SU	12/10/15 - 07/18/24	37	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
23	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 07/18/24	26	0	CI around mean	0.257	5	Standard	No Exceedance
23	UA	E006	Selenium, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
23	UA	E006	Sulfate, total	mg/L	12/10/15 - 07/18/24	42	0	CI around median	423	400	Standard	Exceedance
23	UA	E006	Thallium, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.002	0.002	Standard	No Exceedance
23	UA	E006	Total Dissolved Solids	mg/L	12/10/15 - 07/18/24	42	0	CI around mean	888	1,200	Standard	No Exceedance
24/51	UA	E006	Antimony, total	mg/L	03/11/20 - 07/18/24	20	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
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
24/51	UA	E006	Arsenic, total	mg/L	03/11/20 - 07/18/24	24	0	CB around linear reg	0.0199	0.010	Standard	Exceedance
24/51	UA	E006	Barium, total	mg/L	03/11/20 - 07/18/24	20	0	CI around mean	0.105	2.0	Standard	No Exceedance
24/51	UA	E006	Beryllium, total	mg/L	03/11/20 - 07/18/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
24/51	UA	E006	Boron, total	mg/L	03/11/20 - 07/18/24	24	0	CB around linear reg	0.972	2	Standard	No Exceedance
24/51	UA	E006	Cadmium, total	mg/L	03/11/20 - 07/18/24	20	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
24/51	UA	E006	Chloride, total	mg/L	03/11/20 - 07/18/24	24	0	CI around mean	98	200	Standard	No Exceedance
24/51	UA	E006	Chromium, total	mg/L	03/11/20 - 07/18/24	20	60	CI around median	0.0015	0.1	Standard	No Exceedance
24/51	UA	E006	Cobalt, total	mg/L	03/11/20 - 07/18/24	20	55	CI around median	0.001	0.006	Standard	No Exceedance
24/51	UA	E006	Fluoride, total	mg/L	03/11/20 - 07/18/24	19	10	CI around median	0.13	4.0	Standard	No Exceedance
24/51	UA	E006	Lead, total	mg/L	03/11/20 - 07/18/24	20	30	CI around geomean	0.00075	0.0075	Standard	No Exceedance
24/51	UA	E006	Lithium, total	mg/L	03/11/20 - 07/18/24	24	0	CI around median	0.023	0.04	Standard	No Exceedance
24/51	UA	E006	Mercury, total	mg/L	03/11/20 - 07/18/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
24/51	UA	E006	Molybdenum, total	mg/L	03/11/20 - 07/18/24	24	4	CB around linear reg	0.00472	0.1	Standard	No Exceedance
24/51	UA	E006	pH (field)	SU	03/11/20 - 07/18/24	19	0	CI around mean	7.3/7.4	6.5/9.0	Standard/Standard	No Exceedance
24/51	UA	E006	Radium 226 + Radium 228, total	pCi/L	03/11/20 - 07/18/24	14	0	CI around mean	1.08	5	Standard	No Exceedance
24/51	UA	E006	Selenium, total	mg/L	03/11/20 - 07/18/24	20	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
24/51	UA	E006	Sulfate, total	mg/L	03/11/20 - 07/18/24	24	0	CB around linear reg	78.9	400	Standard	No Exceedance
24/51	UA	E006	Thallium, total	mg/L	03/11/20 - 07/18/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
24/51	UA	E006	Total Dissolved Solids	mg/L	03/11/20 - 07/18/24	24	0	CI around mean	626	1,200	Standard	No Exceedance
27	UA	E006	Antimony, total	mg/L	09/12/18 - 08/06/24	22	100	All ND - Last	0.003	0.006	Standard	No Exceedance
27	UA	E006	Arsenic, total	mg/L	09/12/18 - 08/06/24	22	62	CI around median	0.001	0.010	Standard	No Exceedance
27	UA	E006	Barium, total	mg/L	09/12/18 - 08/06/24	22	0	CI around median	0.0837	2.0	Standard	No Exceedance
27	UA	E006	Beryllium, total	mg/L	09/12/18 - 08/06/24	22	100	All ND - Last	0.001	0.004	Standard	No Exceedance
27	UA	E006	Boron, total	mg/L	09/12/18 - 08/06/24	22	0	CB around linear reg	1.4	2	Standard	No Exceedance
27	UA	E006	Cadmium, total	mg/L	09/12/18 - 08/06/24	22	96	CI around median	0.001	0.005	Standard	No Exceedance
27	UA	E006	Chloride, total	mg/L	03/08/16 - 08/06/24	27	0	CB around linear reg	97.9	200	Standard	No Exceedance
27	UA	E006	Chromium, total	mg/L	09/12/18 - 08/06/24	22	79	CB around T-S line	0.0015	0.1	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
27	UA	E006	Cobalt, total	mg/L	09/12/18 - 08/06/24	22	8	CI around mean	0.00203	0.006	Standard	No Exceedance
27	UA	E006	Fluoride, total	mg/L	09/12/18 - 08/06/24	22	4	CI around median	0.12	4.0	Standard	No Exceedance
27	UA	E006	Lead, total	mg/L	09/12/18 - 08/06/24	22	50	CI around median	0.001	0.0075	Standard	No Exceedance
27	UA	E006	Lithium, total	mg/L	09/12/18 - 08/06/24	22	0	CI around mean	0.0218	0.04	Standard	No Exceedance
27	UA	E006	Mercury, total	mg/L	09/12/18 - 08/06/24	22	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
27	UA	E006	Molybdenum, total	mg/L	09/12/18 - 08/06/24	22	27	CI around median	0.0044	0.1	Standard	No Exceedance
27	UA	E006	pH (field)	SU	03/08/16 - 08/06/24	27	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
27	UA	E006	Radium 226 + Radium 228, total	pCi/L	09/12/18 - 08/06/24	16	0	CI around geomean	0.231	5	Standard	No Exceedance
27	UA	E006	Selenium, total	mg/L	09/12/18 - 08/06/24	22	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
27	UA	E006	Sulfate, total	mg/L	03/08/16 - 08/06/24	27	0	CB around linear reg	87.3	400	Standard	No Exceedance
27	UA	E006	Thallium, total	mg/L	09/12/18 - 08/06/24	22	100	All ND - Last	0.002	0.002	Standard	No Exceedance
27	UA	E006	Total Dissolved Solids	mg/L	03/08/16 - 08/06/24	27	0	CI around median	642	1,200	Standard	No Exceedance
35	UA	E006	Antimony, total	mg/L	12/09/15 - 08/06/24	34	100	All ND - Last	0.003	0.006	Standard	No Exceedance
35	UA	E006	Arsenic, total	mg/L	12/09/15 - 08/06/24	34	76	CI around median	0.001	0.010	Standard	No Exceedance
35	UA	E006	Barium, total	mg/L	12/09/15 - 08/06/24	34	0	CI around mean	0.041	2.0	Standard	No Exceedance
35	UA	E006	Beryllium, total	mg/L	12/09/15 - 08/06/24	34	100	All ND - Last	0.001	0.004	Standard	No Exceedance
35	UA	E006	Boron, total	mg/L	12/09/15 - 08/06/24	35	0	CB around linear reg	11.4	2	Standard	Exceedance
35	UA	E006	Cadmium, total	mg/L	12/09/15 - 08/06/24	34	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
35	UA	E006	Chloride, total	mg/L	12/09/15 - 08/06/24	35	0	CB around linear reg	18.7	200	Standard	No Exceedance
35	UA	E006	Chromium, total	mg/L	12/09/15 - 08/06/24	34	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
35	UA	E006	Cobalt, total	mg/L	12/09/15 - 08/06/24	34	41	CI around median	0.001	0.006	Standard	No Exceedance
35	UA	E006	Fluoride, total	mg/L	12/09/15 - 08/06/24	35	3	CI around median	0.17	4.0	Standard	No Exceedance
35	UA	E006	Lead, total	mg/L	12/09/15 - 08/06/24	34	91	CB around T-S line	0.000774	0.0075	Standard	No Exceedance
35	UA	E006	Lithium, total	mg/L	12/09/15 - 08/06/24	34	0	CI around mean	0.0243	0.04	Standard	No Exceedance
35	UA	E006	Mercury, total	mg/L	12/09/15 - 08/06/24	33	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
35	UA	E006	Molybdenum, total	mg/L	12/09/15 - 08/06/24	34	0	CI around mean	0.0656	0.1	Standard	No Exceedance
35	UA	E006	pH (field)	SU	12/09/15 - 08/06/24	35	0	CB around linear reg	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
35	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/06/24	27	0	CI around median	0.31	5	Standard	No Exceedance
35	UA	E006	Selenium, total	mg/L	12/09/15 - 08/06/24	34	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
35	UA	E006	Sulfate, total	mg/L	12/09/15 - 08/06/24	35	0	CB around linear reg	667	400	Standard	Exceedance
35	UA	E006	Thallium, total	mg/L	12/09/15 - 08/06/24	34	100	All ND - Last	0.002	0.002	Standard	No Exceedance
35	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 08/06/24	35	0	CB around linear reg	1,290	1,200	Standard	Exceedance
49	UA	E006	Antimony, total	mg/L	12/10/15 - 08/06/24	34	100	All ND - Last	0.003	0.006	Standard	No Exceedance
49	UA	E006	Arsenic, total	mg/L	12/10/15 - 08/06/24	34	97	CI around median	0.001	0.010	Standard	No Exceedance
49	UA	E006	Barium, total	mg/L	12/10/15 - 08/06/24	34	0	CB around T-S line	0.0617	2.0	Standard	No Exceedance
49	UA	E006	Beryllium, total	mg/L	12/10/15 - 08/06/24	34	100	All ND - Last	0.001	0.004	Standard	No Exceedance
49	UA	E006	Boron, total	mg/L	12/10/15 - 08/06/24	35	0	CB around linear reg	0.439	2	Standard	No Exceedance
49	UA	E006	Cadmium, total	mg/L	12/10/15 - 08/06/24	34	26	CB around linear reg	0.00144	0.005	Standard	No Exceedance
49	UA	E006	Chloride, total	mg/L	12/10/15 - 08/06/24	35	0	CI around median	100	200	Standard	No Exceedance
49	UA	E006	Chromium, total	mg/L	12/10/15 - 08/06/24	34	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
49	UA	E006	Cobalt, total	mg/L	12/10/15 - 08/06/24	34	0	CI around mean	0.00434	0.006	Standard	No Exceedance
49	UA	E006	Fluoride, total	mg/L	12/10/15 - 08/06/24	35	3	CI around median	0.15	4.0	Standard	No Exceedance
49	UA	E006	Lead, total	mg/L	12/10/15 - 08/06/24	34	91	CI around median	0.001	0.0075	Standard	No Exceedance
49	UA	E006	Lithium, total	mg/L	12/10/15 - 08/06/24	34	0	CI around mean	0.024	0.04	Standard	No Exceedance
49	UA	E006	Mercury, total	mg/L	12/10/15 - 08/06/24	33	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
49	UA	E006	Molybdenum, total	mg/L	12/10/15 - 08/06/24	34	0	CB around T-S line	0.0202	0.1	Standard	No Exceedance
49	UA	E006	pH (field)	SU	12/10/15 - 08/06/24	36	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
49	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 08/06/24	27	0	CI around mean	0.364	5	Standard	No Exceedance
49	UA	E006	Selenium, total	mg/L	12/10/15 - 08/06/24	34	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
49	UA	E006	Sulfate, total	mg/L	12/10/15 - 08/06/24	35	0	CB around linear reg	68.9	400	Standard	No Exceedance
49	UA	E006	Thallium, total	mg/L	12/10/15 - 08/06/24	34	100	All ND - Last	0.002	0.002	Standard	No Exceedance
49	UA	E006	Total Dissolved Solids	mg/L	12/10/15 - 08/06/24	35	0	CB around linear reg	576	1,200	Standard	No Exceedance
50	UA	E006	Antimony, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.003	0.006	Standard	No Exceedance
50	UA	E006	Arsenic, total	mg/L	09/17/19 - 08/06/24	19	90	CI around median	0.001	0.010	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
50	UA	E006	Barium, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	0.0862	2.0	Standard	No Exceedance
50	UA	E006	Beryllium, total	mg/L	09/17/19 - 08/06/24	18	100	All ND - Last	0.001	0.004	Standard	No Exceedance
50	UA	E006	Boron, total	mg/L	09/17/19 - 08/06/24	19	0	CI around median	0.696	2	Standard	No Exceedance
50	UA	E006	Cadmium, total	mg/L	09/17/19 - 08/06/24	19	5	CI around median	0.0011	0.005	Standard	No Exceedance
50	UA	E006	Chloride, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	87.1	200	Standard	No Exceedance
50	UA	E006	Chromium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.005	0.1	Standard	No Exceedance
50	UA	E006	Cobalt, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	0.00412	0.006	Standard	No Exceedance
50	UA	E006	Fluoride, total	mg/L	09/17/19 - 08/06/24	19	21	CI around median	0.11	4.0	Standard	No Exceedance
50	UA	E006	Lead, total	mg/L	09/17/19 - 08/06/24	19	95	CB around T-S line	0.000656	0.0075	Standard	No Exceedance
50	UA	E006	Lithium, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	0.0199	0.04	Standard	No Exceedance
50	UA	E006	Mercury, total	mg/L	12/11/19 - 08/06/24	18	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
50	UA	E006	Molybdenum, total	mg/L	09/17/19 - 08/06/24	19	0	CI around geomean	0.0299	0.1	Standard	No Exceedance
50	UA	E006	pH (field)	SU	09/17/19 - 08/06/24	22	0	CB around linear reg	7.3/7.6	6.5/9.0	Standard/Standard	No Exceedance
50	UA	E006	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 08/06/24	15	0	CI around mean	0.607	5	Standard	No Exceedance
50	UA	E006	Selenium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
50	UA	E006	Sulfate, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	88.8	400	Standard	No Exceedance
50	UA	E006	Thallium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.002	0.002	Standard	No Exceedance
50	UA	E006	Total Dissolved Solids	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	610	1,200	Standard	No Exceedance

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

Notes:

Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

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

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
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
21/21R	UA	E007	Antimony, total	mg/L	03/11/20 - 10/08/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
21/21R	UA	E007	Arsenic, total	mg/L	03/11/20 - 10/08/24	21	0	CI around mean	0.0235	0.010	Standard	Exceedance
21/21R	UA	E007	Barium, total	mg/L	03/11/20 - 10/08/24	20	0	CI around mean	0.295	2.0	Standard	No Exceedance
21/21R	UA	E007	Beryllium, total	mg/L	03/11/20 - 10/08/24	20	100	All ND - Last	0.001	0.004	Standard	No Exceedance
21/21R	UA	E007	Boron, total	mg/L	03/11/20 - 10/08/24	20	0	CB around linear reg	1.56	2	Standard	No Exceedance
21/21R	UA	E007	Cadmium, total	mg/L	03/11/20 - 10/08/24	20	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
21/21R	UA	E007	Chloride, total	mg/L	03/11/20 - 10/08/24	20	0	CI around mean	86.6	200	Standard	No Exceedance
21/21R	UA	E007	Chromium, total	mg/L	03/11/20 - 10/08/24	20	45	CB around linear reg	0.00308	0.1	Standard	No Exceedance
21/21R	UA	E007	Cobalt, total	mg/L	03/11/20 - 10/08/24	20	50	CI around median	0.001	0.006	Standard	No Exceedance
21/21R	UA	E007	Fluoride, total	mg/L	03/11/20 - 10/08/24	20	10	CI around median	0.14	4.0	Standard	No Exceedance
21/21R	UA	E007	Lead, total	mg/L	03/11/20 - 10/08/24	20	5	CI around mean	0.00201	0.0075	Standard	No Exceedance
21/21R	UA	E007	Lithium, total	mg/L	03/11/20 - 10/08/24	20	0	CI around mean	0.0209	0.04	Standard	No Exceedance
21/21R	UA	E007	Mercury, total	mg/L	03/11/20 - 10/08/24	20	95	CI around median	0.0002	0.002	Standard	No Exceedance
21/21R	UA	E007	Molybdenum, total	mg/L	03/11/20 - 10/08/24	20	5	CI around mean	0.00823	0.1	Standard	No Exceedance
21/21R	UA	E007	pH (field)	SU	03/11/20 - 10/08/24	20	0	CI around mean	7.3/7.5	6.5/9.0	Standard/Standard	No Exceedance
21/21R	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 10/08/24	26	0	CI around mean	0.884	5	Standard	No Exceedance
21/21R	UA	E007	Selenium, total	mg/L	03/11/20 - 10/08/24	20	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
21/21R	UA	E007	Sulfate, total	mg/L	03/11/20 - 10/08/24	20	0	CI around mean	86.6	400	Standard	No Exceedance
21/21R	UA	E007	Thallium, total	mg/L	03/11/20 - 10/08/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
21/21R	UA	E007	Total Dissolved Solids	mg/L	03/11/20 - 10/08/24	20	0	CI around mean	623	1,200	Standard	No Exceedance
22	UA	E007	Antimony, total	mg/L	12/10/15 - 10/09/24	36	92	CB around T-S line	0.001	0.006	Standard	No Exceedance
22	UA	E007	Arsenic, total	mg/L	12/10/15 - 10/09/24	40	74	CI around median	0.001	0.010	Standard	No Exceedance
22	UA	E007	Barium, total	mg/L	12/10/15 - 10/09/24	36	0	CI around median	0.0628	2.0	Standard	No Exceedance
22	UA	E007	Beryllium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.001	0.004	Standard	No Exceedance
22	UA	E007	Boron, total	mg/L	12/10/15 - 10/09/24	41	0	CB around T-S line	2.62	2	Standard	Exceedance
22	UA	E007	Cadmium, total	mg/L	12/10/15 - 10/09/24	36	8	CB around T-S line	0.00481	0.005	Standard	No Exceedance
22	UA	E007	Chloride, total	mg/L	12/10/15 - 10/09/24	43	0	CB around T-S line	90.9	200	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
22	UA	E007	Chromium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.005	0.1	Standard	No Exceedance
22	UA	E007	Cobalt, total	mg/L	12/10/15 - 10/09/24	36	8	CI around mean	0.00193	0.006	Standard	No Exceedance
22	UA	E007	Fluoride, total	mg/L	12/10/15 - 10/09/24	36	5	CI around median	0.15	4.0	Standard	No Exceedance
22	UA	E007	Lead, total	mg/L	12/10/15 - 10/09/24	36	97	CB around T-S line	0.001	0.0075	Standard	No Exceedance
22	UA	E007	Lithium, total	mg/L	12/10/15 - 10/09/24	40	0	CB around T-S line	0.043	0.04	Standard	Exceedance
22	UA	E007	Mercury, total	mg/L	12/10/15 - 10/09/24	34	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
22	UA	E007	Molybdenum, total	mg/L	12/10/15 - 10/09/24	40	0	CB around T-S line	0.0495	0.1	Standard	No Exceedance
22	UA	E007	pH (field)	SU	12/10/15 - 10/09/24	39	0	CI around median	7.6/7.7	6.5/9.0	Standard/Standard	No Exceedance
22	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 10/09/24	27	0	CI around mean	0.35	5	Standard	No Exceedance
22	UA	E007	Selenium, total	mg/L	12/10/15 - 10/09/24	36	5	CI around mean	0.0131	0.05	Standard	No Exceedance
22	UA	E007	Sulfate, total	mg/L	12/10/15 - 10/09/24	43	0	CB around linear reg	91.6	400	Standard	No Exceedance
22	UA	E007	Thallium, total	mg/L	12/10/15 - 10/09/24	36	95	CB around T-S line	0.002	0.002	Standard	No Exceedance
22	UA	E007	Total Dissolved Solids	mg/L	12/10/15 - 10/09/24	43	0	CB around linear reg	582	1,200	Standard	No Exceedance
22D	UA	E007	Antimony, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
22D	UA	E007	Arsenic, total	mg/L	09/17/19 - 10/09/24	20	15	CI around median	0.0012	0.010	Standard	No Exceedance
22D	UA	E007	Barium, total	mg/L	09/17/19 - 10/09/24	20	0	CB around T-S line	0.0649	2.0	Standard	No Exceedance
22D	UA	E007	Beryllium, total	mg/L	09/17/19 - 10/09/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
22D	UA	E007	Boron, total	mg/L	09/17/19 - 10/09/24	20	0	CB around linear reg	1.12	2	Standard	No Exceedance
22D	UA	E007	Cadmium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
22D	UA	E007	Chloride, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	91.3	200	Standard	No Exceedance
22D	UA	E007	Chromium, total	mg/L	09/17/19 - 10/09/24	20	90	CB around T-S line	0.0015	0.1	Standard	No Exceedance
22D	UA	E007	Cobalt, total	mg/L	09/17/19 - 10/09/24	20	95	CI around median	0.001	0.006	Standard	No Exceedance
22D	UA	E007	Fluoride, total	mg/L	09/17/19 - 10/09/24	20	10	CI around median	0.11	4.0	Standard	No Exceedance
22D	UA	E007	Lead, total	mg/L	09/17/19 - 10/09/24	20	90	CB around T-S line	0.000431	0.0075	Standard	No Exceedance
22D	UA	E007	Lithium, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	0.0149	0.04	Standard	No Exceedance
22D	UA	E007	Mercury, total	mg/L	12/11/19 - 10/09/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
22D	UA	E007	Molybdenum, total	mg/L	09/17/19 - 10/09/24	20	5	CI around geomean	0.00653	0.1	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
22D	UA	E007	pH (field)	SU	09/17/19 - 10/09/24	23	0	CI around mean	7.2/7.3	6.5/9.0	Standard/Standard	No Exceedance
22D	UA	E007	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 10/09/24	17	0	CI around mean	0.818	5	Standard	No Exceedance
22D	UA	E007	Selenium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
22D	UA	E007	Sulfate, total	mg/L	09/17/19 - 10/09/24	20	0	CB around linear reg	84.8	400	Standard	No Exceedance
22D	UA	E007	Thallium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
22D	UA	E007	Total Dissolved Solids	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	611	1,200	Standard	No Exceedance
23	UA	E007	Antimony, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.003	0.006	Standard	No Exceedance
23	UA	E007	Arsenic, total	mg/L	12/10/15 - 10/09/24	40	90	CB around T-S line	0.001	0.010	Standard	No Exceedance
23	UA	E007	Barium, total	mg/L	12/10/15 - 10/09/24	36	0	CB around T-S line	0.037	2.0	Standard	No Exceedance
23	UA	E007	Beryllium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.001	0.004	Standard	No Exceedance
23	UA	E007	Boron, total	mg/L	12/10/15 - 10/09/24	41	0	CB around T-S line	8.38	2	Standard	Exceedance
23	UA	E007	Cadmium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
23	UA	E007	Chloride, total	mg/L	12/10/15 - 10/09/24	43	1	CB around T-S line	51.1	200	Standard	No Exceedance
23	UA	E007	Chromium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.005	0.1	Standard	No Exceedance
23	UA	E007	Cobalt, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.001	0.006	Standard	No Exceedance
23	UA	E007	Fluoride, total	mg/L	12/10/15 - 10/09/24	36	5	CI around median	0.15	4.0	Standard	No Exceedance
23	UA	E007	Lead, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.0005	0.0075	Standard	No Exceedance
23	UA	E007	Lithium, total	mg/L	12/10/15 - 10/09/24	40	12	CI around median	0.0047	0.04	Standard	No Exceedance
23	UA	E007	Mercury, total	mg/L	12/10/15 - 10/09/24	34	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
23	UA	E007	Molybdenum, total	mg/L	12/10/15 - 10/09/24	40	0	CI around median	0.0146	0.1	Standard	No Exceedance
23	UA	E007	pH (field)	SU	12/10/15 - 10/09/24	38	0	CI around mean	7.4/7.5	6.5/9.0	Standard/Standard	No Exceedance
23	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 10/09/24	27	0	CI around mean	0.252	5	Standard	No Exceedance
23	UA	E007	Selenium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
23	UA	E007	Sulfate, total	mg/L	12/10/15 - 10/09/24	43	0	CI around median	421	400	Standard	Exceedance
23	UA	E007	Thallium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.002	0.002	Standard	No Exceedance
23	UA	E007	Total Dissolved Solids	mg/L	12/10/15 - 10/09/24	43	0	CI around mean	889	1,200	Standard	No Exceedance
24/51	UA	E007	Antimony, total	mg/L	03/11/20 - 10/09/24	21	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
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
24/51	UA	E007	Arsenic, total	mg/L	03/11/20 - 10/09/24	26	0	CB around linear reg	0.02	0.010	Standard	Exceedance
24/51	UA	E007	Barium, total	mg/L	03/11/20 - 10/09/24	21	0	CI around mean	0.106	2.0	Standard	No Exceedance
24/51	UA	E007	Beryllium, total	mg/L	03/11/20 - 10/09/24	21	100	All ND - Last	0.001	0.004	Standard	No Exceedance
24/51	UA	E007	Boron, total	mg/L	03/11/20 - 10/09/24	25	0	CB around linear reg	0.957	2	Standard	No Exceedance
24/51	UA	E007	Cadmium, total	mg/L	03/11/20 - 10/09/24	21	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
24/51	UA	E007	Chloride, total	mg/L	03/11/20 - 10/09/24	25	0	CI around mean	97.7	200	Standard	No Exceedance
24/51	UA	E007	Chromium, total	mg/L	03/11/20 - 10/09/24	21	62	CI around median	0.0015	0.1	Standard	No Exceedance
24/51	UA	E007	Cobalt, total	mg/L	03/11/20 - 10/09/24	21	57	CI around median	0.001	0.006	Standard	No Exceedance
24/51	UA	E007	Fluoride, total	mg/L	03/11/20 - 10/09/24	20	10	CI around median	0.13	4.0	Standard	No Exceedance
24/51	UA	E007	Lead, total	mg/L	03/11/20 - 10/09/24	21	29	CB around T-S line	-0.00159	0.0075	Standard	No Exceedance
24/51	UA	E007	Lithium, total	mg/L	03/11/20 - 10/09/24	25	0	CI around median	0.023	0.04	Standard	No Exceedance
24/51	UA	E007	Mercury, total	mg/L	03/11/20 - 10/09/24	20	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
24/51	UA	E007	Molybdenum, total	mg/L	03/11/20 - 10/09/24	25	4	CB around linear reg	0.00488	0.1	Standard	No Exceedance
24/51	UA	E007	pH (field)	SU	03/11/20 - 10/09/24	20	0	CI around mean	7.3/7.4	6.5/9.0	Standard/Standard	No Exceedance
24/51	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 10/09/24	26	0	CB around linear reg	1.25	5	Standard	No Exceedance
24/51	UA	E007	Selenium, total	mg/L	03/11/20 - 10/09/24	21	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
24/51	UA	E007	Sulfate, total	mg/L	03/11/20 - 10/09/24	25	0	CB around linear reg	77.4	400	Standard	No Exceedance
24/51	UA	E007	Thallium, total	mg/L	03/11/20 - 10/09/24	21	100	All ND - Last	0.002	0.002	Standard	No Exceedance
24/51	UA	E007	Total Dissolved Solids	mg/L	03/11/20 - 10/09/24	25	0	CI around mean	627	1,200	Standard	No Exceedance
27	UA	E007	Antimony, total	mg/L	09/12/18 - 10/08/24	23	100	All ND - Last	0.003	0.006	Standard	No Exceedance
27	UA	E007	Arsenic, total	mg/L	09/12/18 - 10/08/24	23	60	CI around median	0.001	0.010	Standard	No Exceedance
27	UA	E007	Barium, total	mg/L	09/12/18 - 10/08/24	23	0	CB around T-S line	0.0714	2.0	Standard	No Exceedance
27	UA	E007	Beryllium, total	mg/L	09/12/18 - 10/08/24	23	100	All ND - Last	0.001	0.004	Standard	No Exceedance
27	UA	E007	Boron, total	mg/L	09/12/18 - 10/08/24	23	0	CB around linear reg	1.44	2	Standard	No Exceedance
27	UA	E007	Cadmium, total	mg/L	09/12/18 - 10/08/24	23	96	CI around median	0.001	0.005	Standard	No Exceedance
27	UA	E007	Chloride, total	mg/L	03/08/16 - 10/08/24	28	0	CI around median	88	200	Standard	No Exceedance
27	UA	E007	Chromium, total	mg/L	09/12/18 - 10/08/24	23	80	CB around T-S line	0.0015	0.1	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
27	UA	E007	Cobalt, total	mg/L	09/12/18 - 10/08/24	23	8	CI around mean	0.00198	0.006	Standard	No Exceedance
27	UA	E007	Fluoride, total	mg/L	09/12/18 - 10/08/24	23	4	CI around median	0.12	4.0	Standard	No Exceedance
27	UA	E007	Lead, total	mg/L	09/12/18 - 10/08/24	23	48	CI around median	0.001	0.0075	Standard	No Exceedance
27	UA	E007	Lithium, total	mg/L	09/12/18 - 10/08/24	23	0	CI around mean	0.0217	0.04	Standard	No Exceedance
27	UA	E007	Mercury, total	mg/L	09/12/18 - 10/08/24	23	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
27	UA	E007	Molybdenum, total	mg/L	09/12/18 - 10/08/24	23	30	CI around median	0.0044	0.1	Standard	No Exceedance
27	UA	E007	pH (field)	SU	03/08/16 - 10/08/24	28	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
27	UA	E007	Radium 226 + Radium 228, total	pCi/L	09/12/18 - 10/08/24	17	0	CI around geomean	0.227	5	Standard	No Exceedance
27	UA	E007	Selenium, total	mg/L	09/12/18 - 10/08/24	23	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
27	UA	E007	Sulfate, total	mg/L	03/08/16 - 10/08/24	28	0	CB around linear reg	87.4	400	Standard	No Exceedance
27	UA	E007	Thallium, total	mg/L	09/12/18 - 10/08/24	23	100	All ND - Last	0.002	0.002	Standard	No Exceedance
27	UA	E007	Total Dissolved Solids	mg/L	03/08/16 - 10/08/24	28	0	CI around median	642	1,200	Standard	No Exceedance
35	UA	E007	Antimony, total	mg/L	12/09/15 - 10/08/24	35	100	All ND - Last	0.003	0.006	Standard	No Exceedance
35	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/08/24	35	77	CI around median	0.001	0.010	Standard	No Exceedance
35	UA	E007	Barium, total	mg/L	12/09/15 - 10/08/24	35	0	CI around mean	0.0412	2.0	Standard	No Exceedance
35	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/08/24	35	100	All ND - Last	0.001	0.004	Standard	No Exceedance
35	UA	E007	Boron, total	mg/L	12/09/15 - 10/08/24	36	0	CB around linear reg	12.1	2	Standard	Exceedance
35	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/08/24	35	100	All ND - Last	0.0005	0.005	Standard	No Exceedance
35	UA	E007	Chloride, total	mg/L	12/09/15 - 10/08/24	36	0	CB around linear reg	17	200	Standard	No Exceedance
35	UA	E007	Chromium, total	mg/L	12/09/15 - 10/08/24	35	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
35	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/08/24	35	43	CI around median	0.001	0.006	Standard	No Exceedance
35	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/08/24	36	3	CI around median	0.17	4.0	Standard	No Exceedance
35	UA	E007	Lead, total	mg/L	12/09/15 - 10/08/24	35	91	CB around T-S line	0.000763	0.0075	Standard	No Exceedance
35	UA	E007	Lithium, total	mg/L	12/09/15 - 10/08/24	35	0	CI around mean	0.0245	0.04	Standard	No Exceedance
35	UA	E007	Mercury, total	mg/L	12/09/15 - 10/08/24	34	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
35	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/08/24	35	0	CI around mean	0.0659	0.1	Standard	No Exceedance
35	UA	E007	pH (field)	SU	12/09/15 - 10/08/24	36	0	CB around linear reg	6.8/7.0	6.5/9.0	Standard/Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
35	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	28	0	CI around median	0.291	5	Standard	No Exceedance
35	UA	E007	Selenium, total	mg/L	12/09/15 - 10/08/24	35	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
35	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/08/24	36	0	CB around linear reg	696	400	Standard	Exceedance
35	UA	E007	Thallium, total	mg/L	12/09/15 - 10/08/24	35	100	All ND - Last	0.002	0.002	Standard	No Exceedance
35	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/08/24	36	0	CB around linear reg	1,330	1,200	Standard	Exceedance
49	UA	E007	Antimony, total	mg/L	12/10/15 - 10/09/24	35	100	All ND - Last	0.003	0.006	Standard	No Exceedance
49	UA	E007	Arsenic, total	mg/L	12/10/15 - 10/09/24	35	97	CI around median	0.001	0.010	Standard	No Exceedance
49	UA	E007	Barium, total	mg/L	12/10/15 - 10/09/24	35	0	CB around T-S line	0.0615	2.0	Standard	No Exceedance
49	UA	E007	Beryllium, total	mg/L	12/10/15 - 10/09/24	35	100	All ND - Last	0.001	0.004	Standard	No Exceedance
49	UA	E007	Boron, total	mg/L	12/10/15 - 10/09/24	36	0	CB around linear reg	0.439	2	Standard	No Exceedance
49	UA	E007	Cadmium, total	mg/L	12/10/15 - 10/09/24	35	26	CB around linear reg	0.0014	0.005	Standard	No Exceedance
49	UA	E007	Chloride, total	mg/L	12/10/15 - 10/09/24	36	0	CI around median	100	200	Standard	No Exceedance
49	UA	E007	Chromium, total	mg/L	12/10/15 - 10/09/24	35	97	CB around T-S line	0.0015	0.1	Standard	No Exceedance
49	UA	E007	Cobalt, total	mg/L	12/10/15 - 10/09/24	35	0	CI around mean	0.00429	0.006	Standard	No Exceedance
49	UA	E007	Fluoride, total	mg/L	12/10/15 - 10/09/24	36	3	CI around median	0.15	4.0	Standard	No Exceedance
49	UA	E007	Lead, total	mg/L	12/10/15 - 10/09/24	35	91	CI around median	0.001	0.0075	Standard	No Exceedance
49	UA	E007	Lithium, total	mg/L	12/10/15 - 10/09/24	35	0	CI around mean	0.0239	0.04	Standard	No Exceedance
49	UA	E007	Mercury, total	mg/L	12/10/15 - 10/09/24	34	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
49	UA	E007	Molybdenum, total	mg/L	12/10/15 - 10/09/24	35	0	CB around T-S line	0.0204	0.1	Standard	No Exceedance
49	UA	E007	pH (field)	SU	12/10/15 - 10/09/24	37	0	CI around mean	7.1/7.2	6.5/9.0	Standard/Standard	No Exceedance
49	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 10/09/24	28	0	CI around mean	0.348	5	Standard	No Exceedance
49	UA	E007	Selenium, total	mg/L	12/10/15 - 10/09/24	35	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
49	UA	E007	Sulfate, total	mg/L	12/10/15 - 10/09/24	36	0	CB around linear reg	68.5	400	Standard	No Exceedance
49	UA	E007	Thallium, total	mg/L	12/10/15 - 10/09/24	35	100	All ND - Last	0.002	0.002	Standard	No Exceedance
49	UA	E007	Total Dissolved Solids	mg/L	12/10/15 - 10/09/24	36	0	CB around linear reg	576	1,200	Standard	No Exceedance
50	UA	E007	Antimony, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
50	UA	E007	Arsenic, total	mg/L	09/17/19 - 10/09/24	20	90	CI around median	0.001	0.010	Standard	No Exceedance

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
50	UA	E007	Barium, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	0.0865	2.0	Standard	No Exceedance
50	UA	E007	Beryllium, total	mg/L	09/17/19 - 10/09/24	19	100	All ND - Last	0.001	0.004	Standard	No Exceedance
50	UA	E007	Boron, total	mg/L	09/17/19 - 10/09/24	20	0	CI around geomean	0.724	2	Standard	No Exceedance
50	UA	E007	Cadmium, total	mg/L	09/17/19 - 10/09/24	20	5	CI around median	0.0011	0.005	Standard	No Exceedance
50	UA	E007	Chloride, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	86.5	200	Standard	No Exceedance
50	UA	E007	Chromium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.005	0.1	Standard	No Exceedance
50	UA	E007	Cobalt, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	0.00401	0.006	Standard	No Exceedance
50	UA	E007	Fluoride, total	mg/L	09/17/19 - 10/09/24	20	20	CI around median	0.11	4.0	Standard	No Exceedance
50	UA	E007	Lead, total	mg/L	09/17/19 - 10/09/24	20	95	CB around T-S line	0.000518	0.0075	Standard	No Exceedance
50	UA	E007	Lithium, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	0.0202	0.04	Standard	No Exceedance
50	UA	E007	Mercury, total	mg/L	12/11/19 - 10/09/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
50	UA	E007	Molybdenum, total	mg/L	09/17/19 - 10/09/24	20	0	CI around geomean	0.0303	0.1	Standard	No Exceedance
50	UA	E007	pH (field)	SU	09/17/19 - 10/09/24	23	0	CB around linear reg	7.3/7.6	6.5/9.0	Standard/Standard	No Exceedance
50	UA	E007	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 10/09/24	16	0	CI around mean	0.627	5	Standard	No Exceedance
50	UA	E007	Selenium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.0025	0.05	Standard	No Exceedance
50	UA	E007	Sulfate, total	mg/L	09/17/19 - 10/09/24	20	0	CI around geomean	89.1	400	Standard	No Exceedance
50	UA	E007	Thallium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.002	0.002	Standard	No Exceedance
50	UA	E007	Total Dissolved Solids	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	610	1,200	Standard	No Exceedance

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

Notes:

Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

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 West Ash Pond System. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, DMG has not identified any actual exceedances.

Events:

E007 = Quarter 4, 2024 sampling event

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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

Statistical Calculation = method used to calculate the statistical result:

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

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

Statistical Result Code (if applicable):

NR¹ = Parameter not analyzed.

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

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

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

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

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

NS⁶ = Sampling pump could not yield a sample.

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

NS⁸ = A sample was not collected.

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

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

GWPS Source:

Background = background concentration

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

FIGURES



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

0 200 400
Feet

MONITORING WELL LOCATION
MAP

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- TOTAL ARSENIC EXCEEDANCE
- TOTAL BORON EXCEEDANCE
- TOTAL CADMIUM EXCEEDANCE
- TOTAL LITHIUM EXCEEDANCE
- TOTAL SULFATE EXCEEDANCE
- TOTAL DISSOLVED SOLIDS EXCEEDANCE
- COMPLIANCE WELL WITHOUT EXCEEDANCE
- REGULATED UNIT (SUBJECT UNIT)
- LIMITS OF FINAL COVER
- PROPERTY BOUNDARY

0 200 400
Feet

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

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



PROJECT: 169000XXXX | DATED: 9/9/2024 | DESIGNER: GALARNMC
Y:\Mapping\Projects\212285\MXD\GW_Contours\Round_2024\Hennepin\OWAP_804\HEN_804_OWAP_2024.aprx\HEN_804_OWAP_Pot Surface 20240122



POTENTIOMETRIC SURFACE MAP
JANUARY 22-23, 2024

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- 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
FEBRUARY 29, 2024

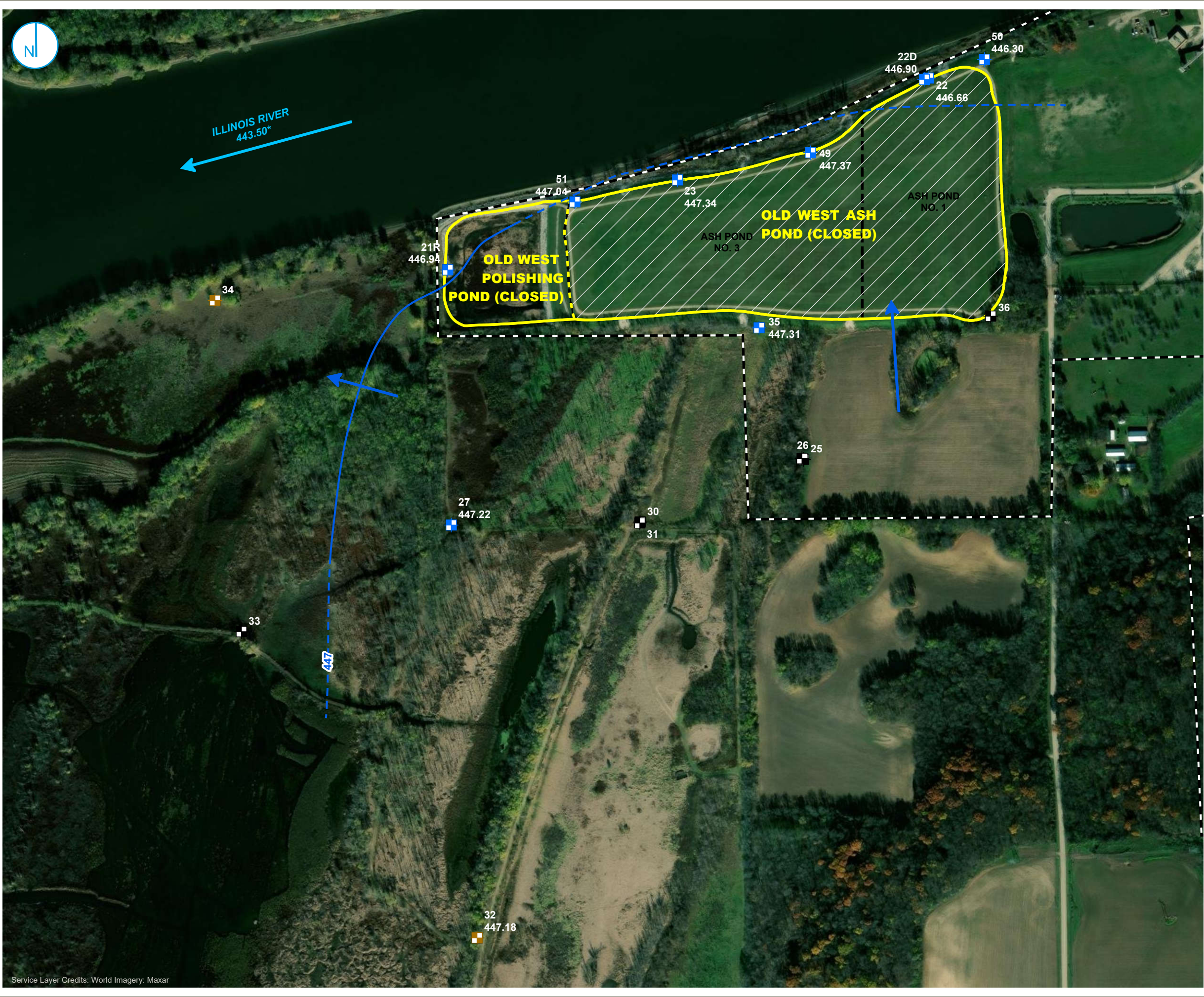
ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 4

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- 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:

- ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
- 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
MARCH 30, 2024**

**ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM**

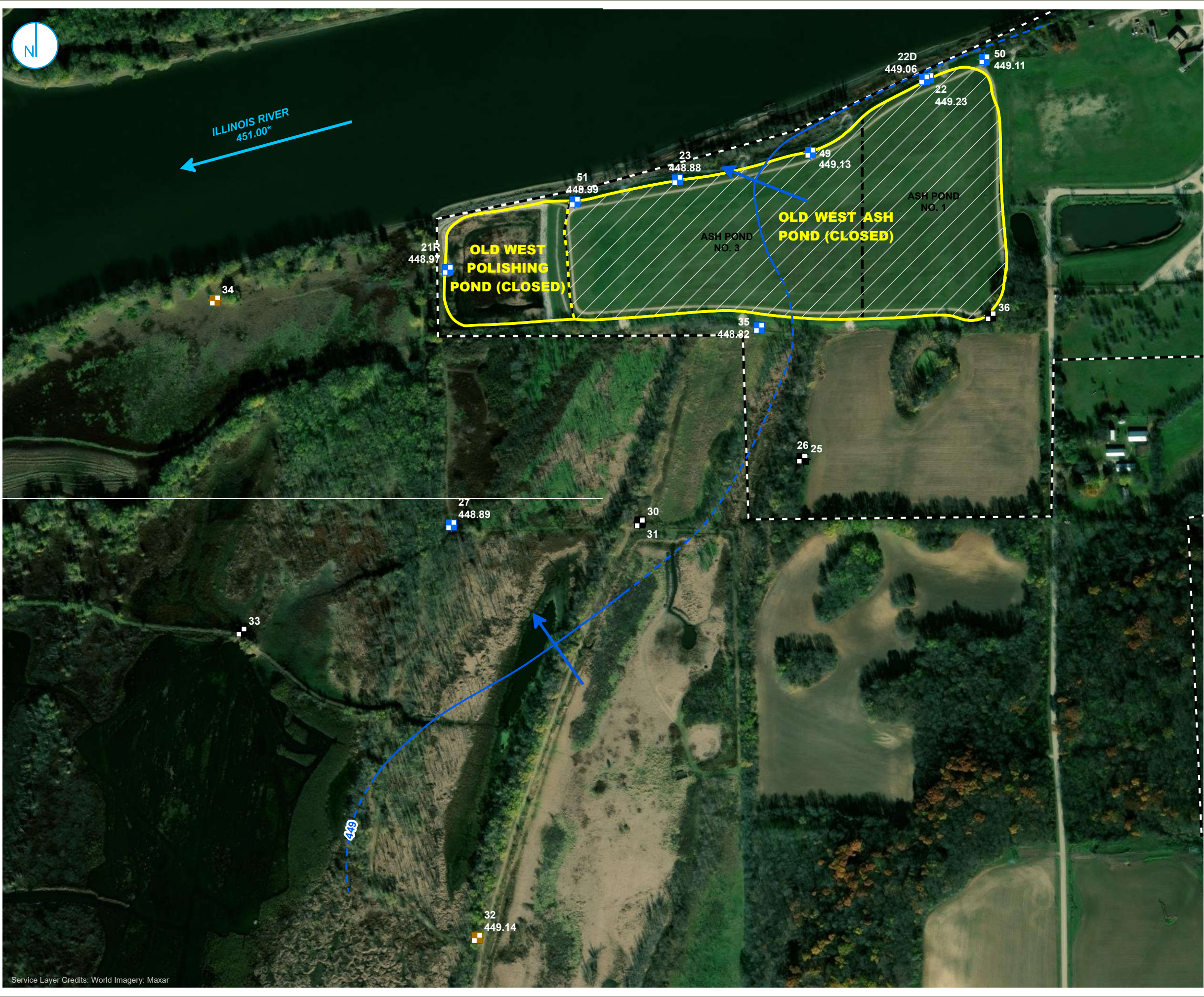
HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 5

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



PROJECT: 169000XXXX | DATED: 9/9/2024 | DESIGNER: GALARNMC
Y:\Mapping\Projects\22\2285\MXD\GW_Contours\Round_2024\Hennepin\OWAP_804\HEN_804_OWAP_2024.aprx\HEN_804_OWAP_Pot Surface 20240415



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- 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.

0 200 400
Feet

**POTENTIOMETRIC SURFACE MAP
APRIL 15-16, 2024**

**ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM**

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 6

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- 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
MAY 30, 2024

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 7

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- INFERRED GROUNDWATER ELEVATION CONTOUR (1 FT CONTOUR INTERVAL, NAVD88)
- 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
JUNE 15, 2024

ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 8

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



PROJECT: 169000XXXX | DATED: 11/13/2024 | DESIGNER: PWYSIATKO
Y:\Mapping\Projects\22\2285\MXD\GW_Contours\Round_2024\Hennepin\OWAP_804\OWAP_2024.aprx\HEN_804_OWAP_2024.aprx\HEN_804_OWAP_2024.aprx



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (0.5 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
AUGUST 7, 2024**

**ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM**

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 10

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



PROJECT: 169000XXXX | DATED: 11/13/2024 | DESIGNER: PWYSIATKO
Y:\Mapping\Projects\22\2285\MXD\GW_Contours\Round_2024\Hennepin\OWAP_804\HEN_804_OWAP_2024.aprx\HEN_804_OWAP_2024.aprx Surface 2024.09.07



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- GROUNDWATER ELEVATION CONTOUR (0.5 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.

0 200 400
Feet

**POTENTIOMETRIC SURFACE MAP
SEPTEMBER 7, 2024**

**ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM**

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 11

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



PROJECT: 169000XXXX | DATED: 11/14/2024 | DESIGNER: PWYSIATKO
Y:\Mapping\Projects\22\2285\MXD\GW_Contours\Round_2024\Hennepin\OWAP_804\HEN_804_OWAP_2024.aprx\HEN_804_OWAP_2024.aprx Surface 2024.1007



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- 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.

0 200 400
Feet

**POTENTIOMETRIC SURFACE MAP
OCTOBER 7, 2024**

**ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM**

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 12

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- 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
NOVEMBER 19, 2024

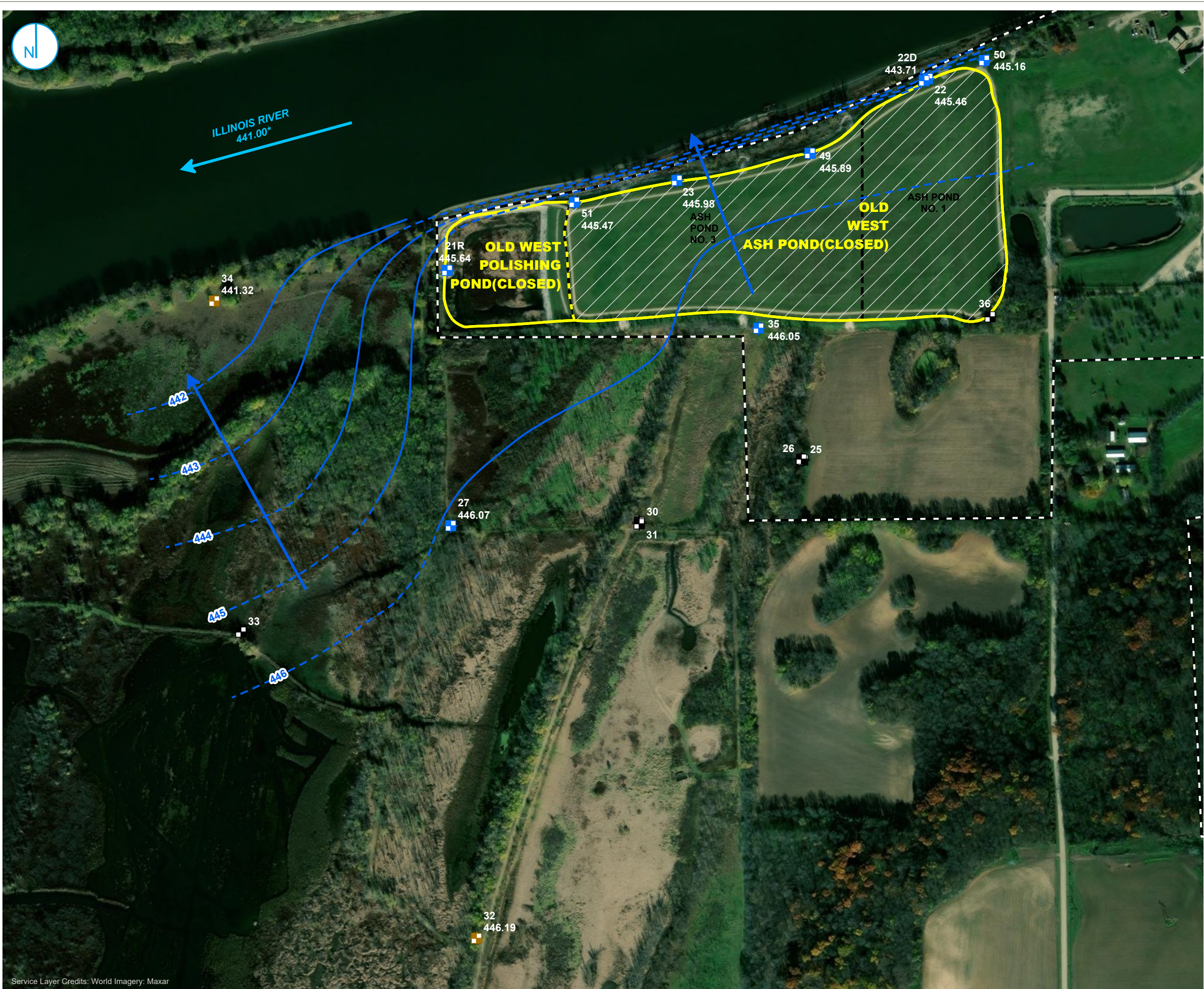
ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
WEST ASH POND SYSTEM

HENNEPIN POWER PLANT
HENNEPIN, ILLINOIS

FIGURE 13

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- 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
WEST ASH POND SYSTEM

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
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
21R	Compliance	UA	01/22/2024	5.33	446.89
21R	Compliance	UA	02/29/2024	5.28	446.94
21R	Compliance	UA	03/30/2024	5.28	446.94
21R	Compliance	UA	04/30/2024	3.25	448.97
21R	Compliance	UA	05/30/2024	4.68	447.54
21R	Compliance	UA	06/15/2024	5.14	447.08
21R	Compliance	UA	07/15/2024	5.81	446.41
21R	Compliance	UA	08/07/2024	6.23	446.19
21R	Compliance	UA	09/07/2024	7.06	445.36
21R	Compliance	UA	10/07/2024	6.72	445.71
21R	Compliance	UA	11/19/2024	5.86	446.56
21R	Compliance	UA	12/18/2024	6.79	445.64
22	Compliance	UA	01/22/2024	17.95	446.67
22	Compliance	UA	02/29/2024	18.00	446.62
22	Compliance	UA	03/30/2024	17.96	446.66
22	Compliance	UA	04/30/2024	15.39	449.23
22	Compliance	UA	05/30/2024	17.36	447.26
22	Compliance	UA	06/15/2024	17.78	446.84
22	Compliance	UA	07/15/2024	18.39	446.23
22	Compliance	UA	08/07/2024	18.80	446.12
22	Compliance	UA	09/07/2024	19.45	445.47
22	Compliance	UA	10/07/2024	19.13	445.80
22	Compliance	UA	11/19/2024	18.84	446.07
22	Compliance	UA	12/19/2024	19.47	445.46
22D	Compliance	UA	01/22/2024	18.79	446.81
22D	Compliance	UA	02/29/2024	18.70	446.90
22D	Compliance	UA	03/30/2024	18.70	446.90
22D	Compliance	UA	04/30/2024	16.54	449.06
22D	Compliance	UA	05/30/2024	18.02	447.58
22D	Compliance	UA	06/15/2024	18.41	447.19
22D	Compliance	UA	07/15/2024	19.11	446.49
22D	Compliance	UA	08/07/2024	19.54	446.36
22D	Compliance	UA	09/07/2024	20.24	445.66
22D	Compliance	UA	10/07/2024	20.04	445.87
22D	Compliance	UA	11/19/2024	21.35	444.55
22D	Compliance	UA	12/19/2024	22.20	443.71
23	Compliance	UA	01/22/2024	16.68	446.88
23	Compliance	UA	02/29/2024	16.16	447.40
23	Compliance	UA	03/30/2024	16.22	447.34
23	Compliance	UA	04/30/2024	14.68	448.88
23	Compliance	UA	05/30/2024	16.57	446.99
23	Compliance	UA	06/15/2024	15.92	447.64
23	Compliance	UA	07/15/2024	16.82	446.74
23	Compliance	UA	08/07/2024	17.26	446.63
23	Compliance	UA	09/07/2024	18.02	445.88
23	Compliance	UA	10/07/2024	17.62	446.29

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

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
23	Compliance	UA	11/19/2024	17.19	446.70
23	Compliance	UA	12/19/2024	17.93	445.98
27	Compliance	UA	01/22/2024	3.82	446.93
27	Compliance	UA	02/29/2024	3.47	447.28
27	Compliance	UA	03/30/2024	3.52	447.22
27	Compliance	UA	04/30/2024	1.86	448.89
27	Compliance	UA	05/30/2024	2.92	447.83
27	Compliance	UA	06/15/2024	3.30	447.45
27	Compliance	UA	07/15/2024	4.12	446.63
27	Compliance	UA	08/07/2024	4.55	446.46
27	Compliance	UA	09/07/2024	DM ⁷	
27	Compliance	UA	10/07/2024	4.82	446.21
27	Compliance	UA	11/19/2024	4.06	446.96
27	Compliance	UA	12/18/2024	4.96	446.07
32	Background	UA	01/22/2024	4.64	446.91
32	Background	UA	02/29/2024	4.27	447.28
32	Background	UA	03/30/2024	4.37	447.18
32	Background	UA	04/30/2024	2.41	449.14
32	Background	UA	05/30/2024	3.89	447.66
32	Background	UA	06/15/2024	4.17	447.38
32	Background	UA	07/15/2024	5.01	446.54
32	Background	UA	08/07/2024	5.68	446.32
32	Background	UA	09/07/2024	6.38	445.63
32	Background	UA	10/07/2024	5.84	446.18
32	Background	UA	11/19/2024	4.90	447.11
32	Background	UA	12/18/2024	5.83	446.19
34	Background	UA	01/22/2024	4.09	445.64
34	Background	UA	02/29/2024	DM ⁷	
34	Background	UA	03/30/2024	DM ⁷	
34	Background	UA	04/30/2024	DM ⁷	
34	Background	UA	05/30/2024	5.27	444.46
34	Background	UA	06/15/2024	DM ⁷	
34	Background	UA	07/15/2024	6.67	443.06
34	Background	UA	08/07/2024	DM ⁷	
34	Background	UA	09/07/2024	DM ⁷	
34	Background	UA	10/07/2024	8.84	441.17
34	Background	UA	11/19/2024	7.56	442.44
34	Background	UA	12/18/2024	8.69	441.32
35	Compliance	UA	01/22/2024	7.97	446.92
35	Compliance	UA	02/29/2024	7.52	447.36
35	Compliance	UA	03/30/2024	7.57	447.31
35	Compliance	UA	04/30/2024	6.06	448.82
35	Compliance	UA	05/30/2024	7.01	447.88
35	Compliance	UA	06/15/2024	7.30	447.59
35	Compliance	UA	07/15/2024	8.25	446.64
35	Compliance	UA	08/07/2024	8.53	446.69

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

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
35	Compliance	UA	09/07/2024	9.29	445.92
35	Compliance	UA	10/07/2024	9.05	446.18
35	Compliance	UA	11/19/2024	8.25	446.97
35	Compliance	UA	12/18/2024	9.18	446.05
49	Compliance	UA	01/22/2024	21.33	446.94
49	Compliance	UA	02/29/2024	20.88	447.39
49	Compliance	UA	03/30/2024	20.90	447.37
49	Compliance	UA	04/30/2024	19.14	449.13
49	Compliance	UA	05/30/2024	20.39	447.88
49	Compliance	UA	06/15/2024	20.62	447.65
49	Compliance	UA	07/15/2024	21.50	446.77
49	Compliance	UA	08/07/2024	21.83	446.72
49	Compliance	UA	09/07/2024	22.59	445.96
49	Compliance	UA	10/07/2024	22.35	446.21
49	Compliance	UA	11/19/2024	21.80	446.75
49	Compliance	UA	12/19/2024	22.67	445.89
50	Compliance	UA	01/22/2024	17.54	446.57
50	Compliance	UA	02/29/2024	17.90	446.21
50	Compliance	UA	03/30/2024	17.81	446.30
50	Compliance	UA	04/30/2024	15.00	449.11
50	Compliance	UA	05/30/2024	17.01	447.10
50	Compliance	UA	06/15/2024	17.63	446.48
50	Compliance	UA	07/15/2024	18.11	446.00
50	Compliance	UA	08/07/2024	DM ⁷	
50	Compliance	UA	09/07/2024	DM ⁷	
50	Compliance	UA	10/07/2024	18.99	445.41
50	Compliance	UA	11/19/2024	18.48	445.91
50	Compliance	UA	12/19/2024	19.24	445.16
51	Compliance	UA	01/22/2024	18.04	446.84
51	Compliance	UA	02/29/2024	17.80	447.08
51	Compliance	UA	03/30/2024	17.84	447.04
51	Compliance	UA	04/30/2024	15.89	448.99
51	Compliance	UA	05/30/2024	17.33	447.55
51	Compliance	UA	06/15/2024	17.68	447.20
51	Compliance	UA	07/15/2024	18.29	446.59
51	Compliance	UA	08/07/2024	18.72	446.31
51	Compliance	UA	09/07/2024	19.53	445.50
51	Compliance	UA	10/07/2024	19.45	445.59
51	Compliance	UA	11/19/2024	18.71	446.32
51	Compliance	UA	12/19/2024	19.57	445.47

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

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
21/21R	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.003	0.001
21/21R	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.0252	0.001
21/21R	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.32	0.156
21/21R	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.001	0.001
21/21R	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	31	0	CB around T-S line	1.89	0.205
21/21R	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.0005	0.001
21/21R	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	98.8	108
21/21R	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	30	62	CB around T-S line	0.00173	0.00130
21/21R	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	30	69	CB around T-S line	0.001	0.00170
21/21R	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	31	9	CI around median	0.14	0.170
21/21R	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	30	50	CB around T-S line	0.00167	0.001
21/21R	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	30	0	CB around linear reg	0.0216	0.0140
21/21R	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	30	97	CI around median	0.0002	0.0002
21/21R	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	30	3	CB around linear reg	0.00761	0.00200
21/21R	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	33	0	CI around mean	7.3/7.5	6.7/7.4
21/21R	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	23	0	CI around mean	0.863	2.60
21/21R	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.0025	0.00110
21/21R	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	56.9	117
21/21R	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	30	100	All ND - Last	0.002	0.001
21/21R	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	31	0	CB around T-S line	630	830
22	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	33	91	CB around T-S line	0.001	0.001
22	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	37	72	CI around median	0.001	0.001
22	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	33	0	CI around median	0.063	0.156
22	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	33	100	All ND - Last	0.001	0.001
22	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	38	0	CB around T-S line	3.12	0.205
22	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	33	9	CB around T-S line	0.00552	0.001
22	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	40	0	CB around T-S line	89.9	108

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
22	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	33	100	All ND - Last	0.005	0.00130
22	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	33	9	CI around mean	0.00193	0.00170
22	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	33	5	CI around median	0.15	0.170
22	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	33	97	CI around median	0.001	0.001
22	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	37	0	CB around T-S line	0.042	0.0140
22	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	31	100	All ND - Last	0.0002	0.0002
22	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	37	0	CB around T-S line	0.0661	0.00200
22	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	36	0	CI around mean	7.5/7.7	6.7/7.4
22	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	24	0	CI around mean	0.375	2.60
22	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	33	6	CB around linear reg	0.015	0.00110
22	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	40	0	CB around linear reg	100	117
22	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	33	94	CB around T-S line	0.002	0.001
22	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	40	0	CB around linear reg	587	830
22D	UA	E004	Antimony, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.003	0.001
22D	UA	E004	Arsenic, total	mg/L	09/17/19 - 01/23/24	17	6	CI around median	0.0012	0.001
22D	UA	E004	Barium, total	mg/L	09/17/19 - 01/23/24	17	0	CB around T-S line	0.0662	0.156
22D	UA	E004	Beryllium, total	mg/L	09/17/19 - 01/23/24	16	100	All ND - Last	0.001	0.001
22D	UA	E004	Boron, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	1.16	0.205
22D	UA	E004	Cadmium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0005	0.001
22D	UA	E004	Chloride, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	95.8	108
22D	UA	E004	Chromium, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.0015	0.00130
22D	UA	E004	Cobalt, total	mg/L	09/17/19 - 01/23/24	17	94	CI around median	0.001	0.00170
22D	UA	E004	Fluoride, total	mg/L	09/17/19 - 01/23/24	17	12	CI around median	0.11	0.170
22D	UA	E004	Lead, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.001	0.001
22D	UA	E004	Lithium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.0147	0.0140
22D	UA	E004	Mercury, total	mg/L	12/11/19 - 01/23/24	16	100	All ND - Last	0.0002	0.0002
22D	UA	E004	Molybdenum, total	mg/L	09/17/19 - 01/23/24	17	6	CI around geomean	0.0066	0.00200

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
22D	UA	E004	pH (field)	SU	09/17/19 - 01/23/24	20	0	CI around mean	7.2/7.3	6.7/7.4
22D	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 01/23/24	14	0	CI around mean	0.665	2.60
22D	UA	E004	Selenium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0025	0.00110
22D	UA	E004	Sulfate, total	mg/L	09/17/19 - 01/23/24	17	0	CB around linear reg	87.7	117
22D	UA	E004	Thallium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.002	0.001
22D	UA	E004	Total Dissolved Solids	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	605	830
23	UA	E004	Antimony, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.003	0.001
23	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/24/24	37	92	CB around T-S line	0.001	0.001
23	UA	E004	Barium, total	mg/L	12/10/15 - 01/24/24	33	0	CB around T-S line	0.0378	0.156
23	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.001	0.001
23	UA	E004	Boron, total	mg/L	12/10/15 - 01/24/24	38	0	CB around T-S line	8.23	0.205
23	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0005	0.001
23	UA	E004	Chloride, total	mg/L	12/10/15 - 01/24/24	40	1	CB around T-S line	51.1	108
23	UA	E004	Chromium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.005	0.00130
23	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.001	0.00170
23	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/24/24	33	5	CI around median	0.15	0.170
23	UA	E004	Lead, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0005	0.001
23	UA	E004	Lithium, total	mg/L	12/10/15 - 01/24/24	37	8	CI around median	0.0048	0.0140
23	UA	E004	Mercury, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0002	0.0002
23	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/24/24	37	0	CI around median	0.0147	0.00200
23	UA	E004	pH (field)	SU	12/10/15 - 01/24/24	35	0	CI around mean	7.4/7.5	6.7/7.4
23	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/24/24	24	0	CI around mean	0.268	2.60
23	UA	E004	Selenium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.0025	0.00110
23	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/24/24	40	0	CI around median	421	117
23	UA	E004	Thallium, total	mg/L	12/10/15 - 01/24/24	33	100	All ND - Last	0.002	0.001
23	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/24/24	40	0	CI around mean	886	830
24/51	UA	E004	Antimony, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.003	0.001

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
24/51	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/24/24	35	0	CI around mean	0.0204	0.001
24/51	UA	E004	Barium, total	mg/L	12/10/15 - 01/24/24	31	0	CB around linear reg	0.111	0.156
24/51	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.001	0.001
24/51	UA	E004	Boron, total	mg/L	12/10/15 - 01/24/24	36	0	CB around linear reg	1.34	0.205
24/51	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0005	0.001
24/51	UA	E004	Chloride, total	mg/L	12/10/15 - 01/24/24	38	0	CB around linear reg	105	108
24/51	UA	E004	Chromium, total	mg/L	12/10/15 - 01/24/24	31	76	CB around T-S line	0.0015	0.00130
24/51	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/24/24	31	73	CI around median	0.001	0.00170
24/51	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/24/24	31	6	CB around T-S line	0.12	0.170
24/51	UA	E004	Lead, total	mg/L	12/10/15 - 01/24/24	31	64	CB around T-S line	0.001	0.001
24/51	UA	E004	Lithium, total	mg/L	12/10/15 - 01/24/24	35	0	CB around T-S line	0.0233	0.0140
24/51	UA	E004	Mercury, total	mg/L	12/10/15 - 01/24/24	30	100	All ND - Last	0.0002	0.0002
24/51	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/24/24	35	3	CI around mean	0.0098	0.00200
24/51	UA	E004	pH (field)	SU	12/10/15 - 01/24/24	33	0	CB around linear reg	7.2/7.4	6.7/7.4
24/51	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/24/24	23	0	CB around linear reg	1.33	2.60
24/51	UA	E004	Selenium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.0025	0.00110
24/51	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/24/24	38	0	CB around linear reg	81.8	117
24/51	UA	E004	Thallium, total	mg/L	12/10/15 - 01/24/24	31	100	All ND - Last	0.002	0.001
24/51	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/24/24	38	0	CI around mean	619	830
27	UA	E004	Antimony, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.003	0.001
27	UA	E004	Arsenic, total	mg/L	09/12/18 - 01/23/24	20	59	CI around median	0.001	0.001
27	UA	E004	Barium, total	mg/L	09/12/18 - 01/23/24	20	0	CI around geomean	0.0843	0.156
27	UA	E004	Beryllium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.001	0.001
27	UA	E004	Boron, total	mg/L	09/12/18 - 01/23/24	20	0	CB around linear reg	1.41	0.205
27	UA	E004	Cadmium, total	mg/L	09/12/18 - 01/23/24	20	96	CI around median	0.001	0.001
27	UA	E004	Chloride, total	mg/L	03/08/16 - 01/23/24	25	0	CB around T-S line	93.3	108
27	UA	E004	Chromium, total	mg/L	09/12/18 - 01/23/24	20	77	CI around median	0.0015	0.00130

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
27	UA	E004	Cobalt, total	mg/L	09/12/18 - 01/23/24	20	9	CI around mean	0.00196	0.00170
27	UA	E004	Fluoride, total	mg/L	09/12/18 - 01/23/24	20	4	CI around median	0.12	0.170
27	UA	E004	Lead, total	mg/L	09/12/18 - 01/23/24	20	54	CI around median	0.001	0.001
27	UA	E004	Lithium, total	mg/L	09/12/18 - 01/23/24	20	0	CI around mean	0.0215	0.0140
27	UA	E004	Mercury, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.0002	0.0002
27	UA	E004	Molybdenum, total	mg/L	09/12/18 - 01/23/24	20	20	CI around median	0.0043	0.00200
27	UA	E004	pH (field)	SU	03/08/16 - 01/23/24	25	0	CI around mean	7.1/7.2	6.7/7.4
27	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/12/18 - 01/23/24	14	0	CI around geomean	0.219	2.60
27	UA	E004	Selenium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.0025	0.00110
27	UA	E004	Sulfate, total	mg/L	03/08/16 - 01/23/24	25	0	CI around geomean	121	117
27	UA	E004	Thallium, total	mg/L	09/12/18 - 01/23/24	20	100	All ND - Last	0.002	0.001
27	UA	E004	Total Dissolved Solids	mg/L	03/08/16 - 01/23/24	25	0	CI around median	638	830
35	UA	E004	Antimony, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.003	0.001
35	UA	E004	Arsenic, total	mg/L	12/09/15 - 01/23/24	32	78	CI around median	0.001	0.001
35	UA	E004	Barium, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0404	0.156
35	UA	E004	Beryllium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.001	0.001
35	UA	E004	Boron, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	10.6	0.205
35	UA	E004	Cadmium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.0005	0.001
35	UA	E004	Chloride, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	23.9	108
35	UA	E004	Chromium, total	mg/L	12/09/15 - 01/23/24	32	97	CB around T-S line	0.0015	0.00130
35	UA	E004	Cobalt, total	mg/L	12/09/15 - 01/23/24	32	41	CI around median	0.001	0.00170
35	UA	E004	Fluoride, total	mg/L	12/09/15 - 01/23/24	33	3	CI around median	0.17	0.170
35	UA	E004	Lead, total	mg/L	12/09/15 - 01/23/24	32	91	CI around median	0.001	0.001
35	UA	E004	Lithium, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0241	0.0140
35	UA	E004	Mercury, total	mg/L	12/09/15 - 01/23/24	31	100	All ND - Last	0.0002	0.0002
35	UA	E004	Molybdenum, total	mg/L	12/09/15 - 01/23/24	32	0	CI around mean	0.0658	0.00200
35	UA	E004	pH (field)	SU	12/09/15 - 01/23/24	33	0	CB around linear reg	6.8/7.0	6.7/7.4

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
35	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 01/23/24	25	0	CI around median	0.31	2.60
35	UA	E004	Selenium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.0025	0.00110
35	UA	E004	Sulfate, total	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	585	117
35	UA	E004	Thallium, total	mg/L	12/09/15 - 01/23/24	32	100	All ND - Last	0.002	0.001
35	UA	E004	Total Dissolved Solids	mg/L	12/09/15 - 01/23/24	33	0	CB around linear reg	1,170	830
49	UA	E004	Antimony, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.003	0.001
49	UA	E004	Arsenic, total	mg/L	12/10/15 - 01/23/24	32	97	CI around median	0.001	0.001
49	UA	E004	Barium, total	mg/L	12/10/15 - 01/23/24	32	0	CB around T-S line	0.0613	0.156
49	UA	E004	Beryllium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.001	0.001
49	UA	E004	Boron, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	0.457	0.205
49	UA	E004	Cadmium, total	mg/L	12/10/15 - 01/23/24	32	28	CB around linear reg	0.0015	0.001
49	UA	E004	Chloride, total	mg/L	12/10/15 - 01/23/24	33	0	CI around median	100	108
49	UA	E004	Chromium, total	mg/L	12/10/15 - 01/23/24	32	97	CB around T-S line	0.0015	0.00130
49	UA	E004	Cobalt, total	mg/L	12/10/15 - 01/23/24	32	0	CI around mean	0.00443	0.00170
49	UA	E004	Fluoride, total	mg/L	12/10/15 - 01/23/24	33	3	CI around median	0.15	0.170
49	UA	E004	Lead, total	mg/L	12/10/15 - 01/23/24	32	91	CI around median	0.001	0.001
49	UA	E004	Lithium, total	mg/L	12/10/15 - 01/23/24	32	0	CB around linear reg	0.0215	0.0140
49	UA	E004	Mercury, total	mg/L	12/10/15 - 01/23/24	31	100	All ND - Last	0.0005	0.0002
49	UA	E004	Molybdenum, total	mg/L	12/10/15 - 01/23/24	32	0	CB around T-S line	0.0228	0.00200
49	UA	E004	pH (field)	SU	12/10/15 - 01/23/24	34	0	CI around mean	7.1/7.2	6.7/7.4
49	UA	E004	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 01/23/24	25	0	CI around mean	0.345	2.60
49	UA	E004	Selenium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.0025	0.00110
49	UA	E004	Sulfate, total	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	69.3	117
49	UA	E004	Thallium, total	mg/L	12/10/15 - 01/23/24	32	100	All ND - Last	0.002	0.001
49	UA	E004	Total Dissolved Solids	mg/L	12/10/15 - 01/23/24	33	0	CB around linear reg	573	830
50	UA	E004	Antimony, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.003	0.001
50	UA	E004	Arsenic, total	mg/L	09/17/19 - 01/23/24	17	88	CI around median	0.001	0.001

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
50	UA	E004	Barium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.0857	0.156
50	UA	E004	Beryllium, total	mg/L	09/17/19 - 01/23/24	16	100	All ND - Last	0.001	0.001
50	UA	E004	Boron, total	mg/L	09/17/19 - 01/23/24	17	0	CI around geomean	0.71	0.205
50	UA	E004	Cadmium, total	mg/L	09/17/19 - 01/23/24	17	6	CI around median	0.0012	0.001
50	UA	E004	Chloride, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	89.2	108
50	UA	E004	Chromium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.005	0.00130
50	UA	E004	Cobalt, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	0.00435	0.00170
50	UA	E004	Fluoride, total	mg/L	09/17/19 - 01/23/24	17	24	CB around T-S line	0.116	0.170
50	UA	E004	Lead, total	mg/L	09/17/19 - 01/23/24	17	94	CI around median	0.001	0.001
50	UA	E004	Lithium, total	mg/L	09/17/19 - 01/23/24	17	0	CI around median	0.0201	0.0140
50	UA	E004	Mercury, total	mg/L	12/11/19 - 01/23/24	16	100	All ND - Last	0.0002	0.0002
50	UA	E004	Molybdenum, total	mg/L	09/17/19 - 01/23/24	17	0	CB around T-S line	0.0297	0.00200
50	UA	E004	pH (field)	SU	09/17/19 - 01/23/24	20	0	CB around linear reg	7.3/7.6	6.7/7.4
50	UA	E004	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 01/23/24	13	0	CI around mean	0.584	2.60
50	UA	E004	Selenium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.0025	0.00110
50	UA	E004	Sulfate, total	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	87.4	117
50	UA	E004	Thallium, total	mg/L	09/17/19 - 01/23/24	17	100	All ND - Last	0.002	0.001
50	UA	E004	Total Dissolved Solids	mg/L	09/17/19 - 01/23/24	17	0	CI around mean	607	830

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

Notes:
Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value
HSU = hydrostratigraphic unit:
 UA = Uppermost Aquifer
mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:
 All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown
 CB around T-S line = Confidence band around Thiel-Sen line
 CB around linear reg = Confidence band around linear regression
 CI around geomean = Confidence interval around the geometric mean
 CI around mean = Confidence interval around the mean
 CI around median = Confidence interval around the median
Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits of the background determination

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

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

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

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

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 2, 2024
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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

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

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

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 2, 2024
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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

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

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 2, 2024
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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
35	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 05/30/24	26	0	CI around median	0.31	2.60
35	UA	E005	Selenium, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.0025	0.00110
35	UA	E005	Sulfate, total	mg/L	12/09/15 - 05/30/24	34	0	CB around linear reg	626	117
35	UA	E005	Thallium, total	mg/L	12/09/15 - 05/30/24	33	100	All ND - Last	0.002	0.001
35	UA	E005	Total Dissolved Solids	mg/L	12/09/15 - 05/30/24	34	0	CB around linear reg	1,230	830
49	UA	E005	Antimony, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.003	0.001
49	UA	E005	Arsenic, total	mg/L	12/10/15 - 05/30/24	33	97	CI around median	0.001	0.001
49	UA	E005	Barium, total	mg/L	12/10/15 - 05/30/24	33	0	CB around T-S line	0.0618	0.156
49	UA	E005	Beryllium, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.001	0.001
49	UA	E005	Boron, total	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	0.438	0.205
49	UA	E005	Cadmium, total	mg/L	12/10/15 - 05/30/24	33	27	CB around linear reg	0.00147	0.001
49	UA	E005	Chloride, total	mg/L	12/10/15 - 05/30/24	34	0	CI around median	100	108
49	UA	E005	Chromium, total	mg/L	12/10/15 - 05/30/24	33	97	CB around T-S line	0.0015	0.00130
49	UA	E005	Cobalt, total	mg/L	12/10/15 - 05/30/24	33	0	CI around mean	0.00439	0.00170
49	UA	E005	Fluoride, total	mg/L	12/10/15 - 05/30/24	34	3	CI around median	0.15	0.170
49	UA	E005	Lead, total	mg/L	12/10/15 - 05/30/24	33	91	CI around median	0.001	0.001
49	UA	E005	Lithium, total	mg/L	12/10/15 - 05/30/24	33	0	CI around mean	0.0239	0.0140
49	UA	E005	Mercury, total	mg/L	12/10/15 - 05/30/24	32	100	All ND - Last	0.0002	0.0002
49	UA	E005	Molybdenum, total	mg/L	12/10/15 - 05/30/24	33	0	CB around T-S line	0.0215	0.00200
49	UA	E005	pH (field)	SU	12/10/15 - 05/30/24	35	0	CI around mean	7.1/7.2	6.7/7.4
49	UA	E005	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 05/30/24	26	0	CI around mean	0.361	2.60
49	UA	E005	Selenium, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.0025	0.00110
49	UA	E005	Sulfate, total	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	68.8	117
49	UA	E005	Thallium, total	mg/L	12/10/15 - 05/30/24	33	100	All ND - Last	0.002	0.001
49	UA	E005	Total Dissolved Solids	mg/L	12/10/15 - 05/30/24	34	0	CB around linear reg	573	830
50	UA	E005	Antimony, total	mg/L	09/17/19 - 05/30/24	18	100	All ND - Last	0.003	0.001
50	UA	E005	Arsenic, total	mg/L	09/17/19 - 05/30/24	18	89	CI around median	0.001	0.001

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WEST ASH POND SYSTEM
HENNEPIN, IL

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

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WEST ASH POND SYSTEM
HENNEPIN, IL

Notes:
Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value
HSU = hydrostratigraphic unit:
 UA = Uppermost Aquifer
mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:
 All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown
 CB around T-S line = Confidence band around Thiel-Sen line
 CB around linear reg = Confidence band around linear regression
 CI around geomean = Confidence interval around the geometric mean
 CI around mean = Confidence interval around the mean
 CI around median = Confidence interval around the median
Statistical Result = calculated in accordance with the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits of the background determination

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
21/21R	UA	E006	Antimony, total	mg/L	03/11/20 - 08/06/24	19	100	All ND - Last	0.003	0.001
21/21R	UA	E006	Arsenic, total	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	0.0237	0.001
21/21R	UA	E006	Barium, total	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	0.297	0.156
21/21R	UA	E006	Beryllium, total	mg/L	03/11/20 - 08/06/24	19	100	All ND - Last	0.001	0.001
21/21R	UA	E006	Boron, total	mg/L	03/11/20 - 08/06/24	19	0	CB around linear reg	1.57	0.205
21/21R	UA	E006	Cadmium, total	mg/L	03/11/20 - 08/06/24	19	100	All ND - Last	0.0005	0.001
21/21R	UA	E006	Chloride, total	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	86.9	108
21/21R	UA	E006	Chromium, total	mg/L	03/11/20 - 08/06/24	19	42	CI around median	0.0015	0.00130
21/21R	UA	E006	Cobalt, total	mg/L	03/11/20 - 08/06/24	19	47	CI around median	0.001	0.00170
21/21R	UA	E006	Fluoride, total	mg/L	03/11/20 - 08/06/24	19	10	CI around median	0.14	0.170
21/21R	UA	E006	Lead, total	mg/L	03/11/20 - 08/06/24	19	5	CI around mean	0.00208	0.001
21/21R	UA	E006	Lithium, total	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	0.0207	0.0140
21/21R	UA	E006	Mercury, total	mg/L	03/11/20 - 08/06/24	19	95	CI around median	0.0002	0.0002
21/21R	UA	E006	Molybdenum, total	mg/L	03/11/20 - 08/06/24	19	5	CI around mean	0.00825	0.00200
21/21R	UA	E006	pH (field)	SU	03/11/20 - 08/06/24	19	0	CI around mean	7.3/7.5	6.7/7.4
21/21R	UA	E006	Radium 226 + Radium 228, total	pCi/L	03/11/20 - 08/06/24	14	0	CI around mean	1.03	2.60
21/21R	UA	E006	Selenium, total	mg/L	03/11/20 - 08/06/24	19	100	All ND - Last	0.0025	0.00110
21/21R	UA	E006	Sulfate, total	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	87.9	117
21/21R	UA	E006	Thallium, total	mg/L	03/11/20 - 08/06/24	19	100	All ND - Last	0.002	0.001
21/21R	UA	E006	Total Dissolved Solids	mg/L	03/11/20 - 08/06/24	19	0	CI around mean	625	830
22	UA	E006	Antimony, total	mg/L	12/10/15 - 08/06/24	35	92	CB around T-S line	0.001	0.001
22	UA	E006	Arsenic, total	mg/L	12/10/15 - 08/06/24	39	73	CI around median	0.001	0.001
22	UA	E006	Barium, total	mg/L	12/10/15 - 08/06/24	35	0	CI around median	0.0628	0.156
22	UA	E006	Beryllium, total	mg/L	12/10/15 - 08/06/24	35	100	All ND - Last	0.001	0.001
22	UA	E006	Boron, total	mg/L	12/10/15 - 08/06/24	40	0	CB around T-S line	2.74	0.205
22	UA	E006	Cadmium, total	mg/L	12/10/15 - 08/06/24	35	8	CB around T-S line	0.00521	0.001
22	UA	E006	Chloride, total	mg/L	12/10/15 - 08/06/24	42	0	CB around T-S line	90.7	108

ATTACHMENT B.
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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
22	UA	E006	Chromium, total	mg/L	12/10/15 - 08/06/24	35	100	All ND - Last	0.005	0.00130
22	UA	E006	Cobalt, total	mg/L	12/10/15 - 08/06/24	35	8	CI around mean	0.00193	0.00170
22	UA	E006	Fluoride, total	mg/L	12/10/15 - 08/06/24	35	5	CI around median	0.15	0.170
22	UA	E006	Lead, total	mg/L	12/10/15 - 08/06/24	35	97	CB around T-S line	0.001	0.001
22	UA	E006	Lithium, total	mg/L	12/10/15 - 08/06/24	39	0	CB around T-S line	0.0447	0.0140
22	UA	E006	Mercury, total	mg/L	12/10/15 - 08/06/24	33	100	All ND - Last	0.0002	0.0002
22	UA	E006	Molybdenum, total	mg/L	12/10/15 - 08/06/24	39	0	CB around T-S line	0.0546	0.00200
22	UA	E006	pH (field)	SU	12/10/15 - 08/06/24	38	0	CI around median	7.6/7.7	6.7/7.4
22	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 08/06/24	26	0	CI around mean	0.369	2.60
22	UA	E006	Selenium, total	mg/L	12/10/15 - 08/06/24	35	5	CI around mean	0.0131	0.00110
22	UA	E006	Sulfate, total	mg/L	12/10/15 - 08/06/24	42	0	CB around linear reg	92.8	117
22	UA	E006	Thallium, total	mg/L	12/10/15 - 08/06/24	35	95	CB around T-S line	0.002	0.001
22	UA	E006	Total Dissolved Solids	mg/L	12/10/15 - 08/06/24	42	0	CB around linear reg	584	830
22D	UA	E006	Antimony, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.003	0.001
22D	UA	E006	Arsenic, total	mg/L	09/17/19 - 08/06/24	19	10	CI around median	0.0012	0.001
22D	UA	E006	Barium, total	mg/L	09/17/19 - 08/06/24	19	0	CB around T-S line	0.0657	0.156
22D	UA	E006	Beryllium, total	mg/L	09/17/19 - 08/06/24	18	100	All ND - Last	0.001	0.001
22D	UA	E006	Boron, total	mg/L	09/17/19 - 08/06/24	19	0	CB around linear reg	1.13	0.205
22D	UA	E006	Cadmium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.0005	0.001
22D	UA	E006	Chloride, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	91.5	108
22D	UA	E006	Chromium, total	mg/L	09/17/19 - 08/06/24	19	90	CB around T-S line	0.0015	0.00130
22D	UA	E006	Cobalt, total	mg/L	09/17/19 - 08/06/24	19	95	CI around median	0.001	0.00170
22D	UA	E006	Fluoride, total	mg/L	09/17/19 - 08/06/24	19	10	CI around median	0.11	0.170
22D	UA	E006	Lead, total	mg/L	09/17/19 - 08/06/24	19	90	CI around median	0.00065	0.001
22D	UA	E006	Lithium, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	0.0149	0.0140
22D	UA	E006	Mercury, total	mg/L	12/11/19 - 08/06/24	18	100	All ND - Last	0.0002	0.0002
22D	UA	E006	Molybdenum, total	mg/L	09/17/19 - 08/06/24	19	5	CI around geomean	0.00657	0.00200

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WEST ASH POND SYSTEM
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
22D	UA	E006	pH (field)	SU	09/17/19 - 08/06/24	22	0	CI around mean	7.2/7.3	6.7/7.4
22D	UA	E006	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 08/06/24	16	0	CI around mean	0.771	2.60
22D	UA	E006	Selenium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.0025	0.00110
22D	UA	E006	Sulfate, total	mg/L	09/17/19 - 08/06/24	19	0	CB around linear reg	86.3	117
22D	UA	E006	Thallium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.002	0.001
22D	UA	E006	Total Dissolved Solids	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	611	830
23	UA	E006	Antimony, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.003	0.001
23	UA	E006	Arsenic, total	mg/L	12/10/15 - 07/18/24	39	90	CB around T-S line	0.001	0.001
23	UA	E006	Barium, total	mg/L	12/10/15 - 07/18/24	35	0	CB around T-S line	0.0371	0.156
23	UA	E006	Beryllium, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.001	0.001
23	UA	E006	Boron, total	mg/L	12/10/15 - 07/18/24	40	0	CB around T-S line	8.44	0.205
23	UA	E006	Cadmium, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.0005	0.001
23	UA	E006	Chloride, total	mg/L	12/10/15 - 07/18/24	42	1	CB around T-S line	52	108
23	UA	E006	Chromium, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.005	0.00130
23	UA	E006	Cobalt, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.001	0.00170
23	UA	E006	Fluoride, total	mg/L	12/10/15 - 07/18/24	35	5	CI around median	0.15	0.170
23	UA	E006	Lead, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.0005	0.001
23	UA	E006	Lithium, total	mg/L	12/10/15 - 07/18/24	39	10	CI around median	0.0048	0.0140
23	UA	E006	Mercury, total	mg/L	12/10/15 - 07/18/24	33	100	All ND - Last	0.0002	0.0002
23	UA	E006	Molybdenum, total	mg/L	12/10/15 - 07/18/24	39	0	CI around median	0.0147	0.00200
23	UA	E006	pH (field)	SU	12/10/15 - 07/18/24	37	0	CI around mean	7.4/7.5	6.7/7.4
23	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 07/18/24	26	0	CI around mean	0.257	2.60
23	UA	E006	Selenium, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.0025	0.00110
23	UA	E006	Sulfate, total	mg/L	12/10/15 - 07/18/24	42	0	CI around median	423	117
23	UA	E006	Thallium, total	mg/L	12/10/15 - 07/18/24	35	100	All ND - Last	0.002	0.001
23	UA	E006	Total Dissolved Solids	mg/L	12/10/15 - 07/18/24	42	0	CI around mean	888	830
24/51	UA	E006	Antimony, total	mg/L	03/11/20 - 07/18/24	20	100	All ND - Last	0.003	0.001

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WEST ASH POND SYSTEM
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
24/51	UA	E006	Arsenic, total	mg/L	03/11/20 - 07/18/24	24	0	CB around linear reg	0.0199	0.001
24/51	UA	E006	Barium, total	mg/L	03/11/20 - 07/18/24	20	0	CI around mean	0.105	0.156
24/51	UA	E006	Beryllium, total	mg/L	03/11/20 - 07/18/24	20	100	All ND - Last	0.001	0.001
24/51	UA	E006	Boron, total	mg/L	03/11/20 - 07/18/24	24	0	CB around linear reg	0.972	0.205
24/51	UA	E006	Cadmium, total	mg/L	03/11/20 - 07/18/24	20	100	All ND - Last	0.0005	0.001
24/51	UA	E006	Chloride, total	mg/L	03/11/20 - 07/18/24	24	0	CI around mean	98	108
24/51	UA	E006	Chromium, total	mg/L	03/11/20 - 07/18/24	20	60	CI around median	0.0015	0.00130
24/51	UA	E006	Cobalt, total	mg/L	03/11/20 - 07/18/24	20	55	CI around median	0.001	0.00170
24/51	UA	E006	Fluoride, total	mg/L	03/11/20 - 07/18/24	19	10	CI around median	0.13	0.170
24/51	UA	E006	Lead, total	mg/L	03/11/20 - 07/18/24	20	30	CI around geomean	0.00075	0.001
24/51	UA	E006	Lithium, total	mg/L	03/11/20 - 07/18/24	24	0	CI around median	0.023	0.0140
24/51	UA	E006	Mercury, total	mg/L	03/11/20 - 07/18/24	19	100	All ND - Last	0.0002	0.0002
24/51	UA	E006	Molybdenum, total	mg/L	03/11/20 - 07/18/24	24	4	CB around linear reg	0.00472	0.00200
24/51	UA	E006	pH (field)	SU	03/11/20 - 07/18/24	19	0	CI around mean	7.3/7.4	6.7/7.4
24/51	UA	E006	Radium 226 + Radium 228, total	pCi/L	03/11/20 - 07/18/24	14	0	CI around mean	1.08	2.60
24/51	UA	E006	Selenium, total	mg/L	03/11/20 - 07/18/24	20	100	All ND - Last	0.0025	0.00110
24/51	UA	E006	Sulfate, total	mg/L	03/11/20 - 07/18/24	24	0	CB around linear reg	78.9	117
24/51	UA	E006	Thallium, total	mg/L	03/11/20 - 07/18/24	20	100	All ND - Last	0.002	0.001
24/51	UA	E006	Total Dissolved Solids	mg/L	03/11/20 - 07/18/24	24	0	CI around mean	626	830
27	UA	E006	Antimony, total	mg/L	09/12/18 - 08/06/24	22	100	All ND - Last	0.003	0.001
27	UA	E006	Arsenic, total	mg/L	09/12/18 - 08/06/24	22	62	CI around median	0.001	0.001
27	UA	E006	Barium, total	mg/L	09/12/18 - 08/06/24	22	0	CI around median	0.0837	0.156
27	UA	E006	Beryllium, total	mg/L	09/12/18 - 08/06/24	22	100	All ND - Last	0.001	0.001
27	UA	E006	Boron, total	mg/L	09/12/18 - 08/06/24	22	0	CB around linear reg	1.4	0.205
27	UA	E006	Cadmium, total	mg/L	09/12/18 - 08/06/24	22	96	CI around median	0.001	0.001
27	UA	E006	Chloride, total	mg/L	03/08/16 - 08/06/24	27	0	CB around linear reg	97.9	108
27	UA	E006	Chromium, total	mg/L	09/12/18 - 08/06/24	22	79	CB around T-S line	0.0015	0.00130

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WEST ASH POND SYSTEM
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
27	UA	E006	Cobalt, total	mg/L	09/12/18 - 08/06/24	22	8	CI around mean	0.00203	0.00170
27	UA	E006	Fluoride, total	mg/L	09/12/18 - 08/06/24	22	4	CI around median	0.12	0.170
27	UA	E006	Lead, total	mg/L	09/12/18 - 08/06/24	22	50	CI around median	0.001	0.001
27	UA	E006	Lithium, total	mg/L	09/12/18 - 08/06/24	22	0	CI around mean	0.0218	0.0140
27	UA	E006	Mercury, total	mg/L	09/12/18 - 08/06/24	22	100	All ND - Last	0.0002	0.0002
27	UA	E006	Molybdenum, total	mg/L	09/12/18 - 08/06/24	22	27	CI around median	0.0044	0.00200
27	UA	E006	pH (field)	SU	03/08/16 - 08/06/24	27	0	CI around mean	7.1/7.2	6.7/7.4
27	UA	E006	Radium 226 + Radium 228, total	pCi/L	09/12/18 - 08/06/24	16	0	CI around geomean	0.231	2.60
27	UA	E006	Selenium, total	mg/L	09/12/18 - 08/06/24	22	100	All ND - Last	0.0025	0.00110
27	UA	E006	Sulfate, total	mg/L	03/08/16 - 08/06/24	27	0	CB around linear reg	87.3	117
27	UA	E006	Thallium, total	mg/L	09/12/18 - 08/06/24	22	100	All ND - Last	0.002	0.001
27	UA	E006	Total Dissolved Solids	mg/L	03/08/16 - 08/06/24	27	0	CI around median	642	830
35	UA	E006	Antimony, total	mg/L	12/09/15 - 08/06/24	34	100	All ND - Last	0.003	0.001
35	UA	E006	Arsenic, total	mg/L	12/09/15 - 08/06/24	34	76	CI around median	0.001	0.001
35	UA	E006	Barium, total	mg/L	12/09/15 - 08/06/24	34	0	CI around mean	0.041	0.156
35	UA	E006	Beryllium, total	mg/L	12/09/15 - 08/06/24	34	100	All ND - Last	0.001	0.001
35	UA	E006	Boron, total	mg/L	12/09/15 - 08/06/24	35	0	CB around linear reg	11.4	0.205
35	UA	E006	Cadmium, total	mg/L	12/09/15 - 08/06/24	34	100	All ND - Last	0.0005	0.001
35	UA	E006	Chloride, total	mg/L	12/09/15 - 08/06/24	35	0	CB around linear reg	18.7	108
35	UA	E006	Chromium, total	mg/L	12/09/15 - 08/06/24	34	97	CB around T-S line	0.0015	0.00130
35	UA	E006	Cobalt, total	mg/L	12/09/15 - 08/06/24	34	41	CI around median	0.001	0.00170
35	UA	E006	Fluoride, total	mg/L	12/09/15 - 08/06/24	35	3	CI around median	0.17	0.170
35	UA	E006	Lead, total	mg/L	12/09/15 - 08/06/24	34	91	CB around T-S line	0.000774	0.001
35	UA	E006	Lithium, total	mg/L	12/09/15 - 08/06/24	34	0	CI around mean	0.0243	0.0140
35	UA	E006	Mercury, total	mg/L	12/09/15 - 08/06/24	33	100	All ND - Last	0.0002	0.0002
35	UA	E006	Molybdenum, total	mg/L	12/09/15 - 08/06/24	34	0	CI around mean	0.0656	0.00200
35	UA	E006	pH (field)	SU	12/09/15 - 08/06/24	35	0	CB around linear reg	6.8/7.0	6.7/7.4

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
35	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 08/06/24	27	0	CI around median	0.31	2.60
35	UA	E006	Selenium, total	mg/L	12/09/15 - 08/06/24	34	100	All ND - Last	0.0025	0.00110
35	UA	E006	Sulfate, total	mg/L	12/09/15 - 08/06/24	35	0	CB around linear reg	667	117
35	UA	E006	Thallium, total	mg/L	12/09/15 - 08/06/24	34	100	All ND - Last	0.002	0.001
35	UA	E006	Total Dissolved Solids	mg/L	12/09/15 - 08/06/24	35	0	CB around linear reg	1,290	830
49	UA	E006	Antimony, total	mg/L	12/10/15 - 08/06/24	34	100	All ND - Last	0.003	0.001
49	UA	E006	Arsenic, total	mg/L	12/10/15 - 08/06/24	34	97	CI around median	0.001	0.001
49	UA	E006	Barium, total	mg/L	12/10/15 - 08/06/24	34	0	CB around T-S line	0.0617	0.156
49	UA	E006	Beryllium, total	mg/L	12/10/15 - 08/06/24	34	100	All ND - Last	0.001	0.001
49	UA	E006	Boron, total	mg/L	12/10/15 - 08/06/24	35	0	CB around linear reg	0.439	0.205
49	UA	E006	Cadmium, total	mg/L	12/10/15 - 08/06/24	34	26	CB around linear reg	0.00144	0.001
49	UA	E006	Chloride, total	mg/L	12/10/15 - 08/06/24	35	0	CI around median	100	108
49	UA	E006	Chromium, total	mg/L	12/10/15 - 08/06/24	34	97	CB around T-S line	0.0015	0.00130
49	UA	E006	Cobalt, total	mg/L	12/10/15 - 08/06/24	34	0	CI around mean	0.00434	0.00170
49	UA	E006	Fluoride, total	mg/L	12/10/15 - 08/06/24	35	3	CI around median	0.15	0.170
49	UA	E006	Lead, total	mg/L	12/10/15 - 08/06/24	34	91	CI around median	0.001	0.001
49	UA	E006	Lithium, total	mg/L	12/10/15 - 08/06/24	34	0	CI around mean	0.024	0.0140
49	UA	E006	Mercury, total	mg/L	12/10/15 - 08/06/24	33	100	All ND - Last	0.0002	0.0002
49	UA	E006	Molybdenum, total	mg/L	12/10/15 - 08/06/24	34	0	CB around T-S line	0.0202	0.00200
49	UA	E006	pH (field)	SU	12/10/15 - 08/06/24	36	0	CI around mean	7.1/7.2	6.7/7.4
49	UA	E006	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 08/06/24	27	0	CI around mean	0.364	2.60
49	UA	E006	Selenium, total	mg/L	12/10/15 - 08/06/24	34	100	All ND - Last	0.0025	0.00110
49	UA	E006	Sulfate, total	mg/L	12/10/15 - 08/06/24	35	0	CB around linear reg	68.9	117
49	UA	E006	Thallium, total	mg/L	12/10/15 - 08/06/24	34	100	All ND - Last	0.002	0.001
49	UA	E006	Total Dissolved Solids	mg/L	12/10/15 - 08/06/24	35	0	CB around linear reg	576	830
50	UA	E006	Antimony, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.003	0.001
50	UA	E006	Arsenic, total	mg/L	09/17/19 - 08/06/24	19	90	CI around median	0.001	0.001

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COMPARISON TO BACKGROUND - QUARTER 3, 2024
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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
50	UA	E006	Barium, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	0.0862	0.156
50	UA	E006	Beryllium, total	mg/L	09/17/19 - 08/06/24	18	100	All ND - Last	0.001	0.001
50	UA	E006	Boron, total	mg/L	09/17/19 - 08/06/24	19	0	CI around median	0.696	0.205
50	UA	E006	Cadmium, total	mg/L	09/17/19 - 08/06/24	19	5	CI around median	0.0011	0.001
50	UA	E006	Chloride, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	87.1	108
50	UA	E006	Chromium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.005	0.00130
50	UA	E006	Cobalt, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	0.00412	0.00170
50	UA	E006	Fluoride, total	mg/L	09/17/19 - 08/06/24	19	21	CI around median	0.11	0.170
50	UA	E006	Lead, total	mg/L	09/17/19 - 08/06/24	19	95	CB around T-S line	0.000656	0.001
50	UA	E006	Lithium, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	0.0199	0.0140
50	UA	E006	Mercury, total	mg/L	12/11/19 - 08/06/24	18	100	All ND - Last	0.0002	0.0002
50	UA	E006	Molybdenum, total	mg/L	09/17/19 - 08/06/24	19	0	CI around geomean	0.0299	0.00200
50	UA	E006	pH (field)	SU	09/17/19 - 08/06/24	22	0	CB around linear reg	7.3/7.6	6.7/7.4
50	UA	E006	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 08/06/24	15	0	CI around mean	0.607	2.60
50	UA	E006	Selenium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.0025	0.00110
50	UA	E006	Sulfate, total	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	88.8	117
50	UA	E006	Thallium, total	mg/L	09/17/19 - 08/06/24	19	100	All ND - Last	0.002	0.001
50	UA	E006	Total Dissolved Solids	mg/L	09/17/19 - 08/06/24	19	0	CI around mean	610	830

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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

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.
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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
21/21R	UA	E007	Antimony, total	mg/L	03/11/20 - 10/08/24	20	100	All ND - Last	0.003	0.001
21/21R	UA	E007	Arsenic, total	mg/L	03/11/20 - 10/08/24	21	0	CI around mean	0.0235	0.001
21/21R	UA	E007	Barium, total	mg/L	03/11/20 - 10/08/24	20	0	CI around mean	0.295	0.156
21/21R	UA	E007	Beryllium, total	mg/L	03/11/20 - 10/08/24	20	100	All ND - Last	0.001	0.001
21/21R	UA	E007	Boron, total	mg/L	03/11/20 - 10/08/24	20	0	CB around linear reg	1.56	0.205
21/21R	UA	E007	Cadmium, total	mg/L	03/11/20 - 10/08/24	20	100	All ND - Last	0.0005	0.001
21/21R	UA	E007	Chloride, total	mg/L	03/11/20 - 10/08/24	20	0	CI around mean	86.6	108
21/21R	UA	E007	Chromium, total	mg/L	03/11/20 - 10/08/24	20	45	CB around linear reg	0.00308	0.00130
21/21R	UA	E007	Cobalt, total	mg/L	03/11/20 - 10/08/24	20	50	CI around median	0.001	0.00170
21/21R	UA	E007	Fluoride, total	mg/L	03/11/20 - 10/08/24	20	10	CI around median	0.14	0.170
21/21R	UA	E007	Lead, total	mg/L	03/11/20 - 10/08/24	20	5	CI around mean	0.00201	0.001
21/21R	UA	E007	Lithium, total	mg/L	03/11/20 - 10/08/24	20	0	CI around mean	0.0209	0.0140
21/21R	UA	E007	Mercury, total	mg/L	03/11/20 - 10/08/24	20	95	CI around median	0.0002	0.0002
21/21R	UA	E007	Molybdenum, total	mg/L	03/11/20 - 10/08/24	20	5	CI around mean	0.00823	0.00200
21/21R	UA	E007	pH (field)	SU	03/11/20 - 10/08/24	20	0	CI around mean	7.3/7.5	6.7/7.4
21/21R	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 10/08/24	26	0	CI around mean	0.884	2.60
21/21R	UA	E007	Selenium, total	mg/L	03/11/20 - 10/08/24	20	100	All ND - Last	0.0025	0.00110
21/21R	UA	E007	Sulfate, total	mg/L	03/11/20 - 10/08/24	20	0	CI around mean	86.6	117
21/21R	UA	E007	Thallium, total	mg/L	03/11/20 - 10/08/24	20	100	All ND - Last	0.002	0.001
21/21R	UA	E007	Total Dissolved Solids	mg/L	03/11/20 - 10/08/24	20	0	CI around mean	623	830
22	UA	E007	Antimony, total	mg/L	12/10/15 - 10/09/24	36	92	CB around T-S line	0.001	0.001
22	UA	E007	Arsenic, total	mg/L	12/10/15 - 10/09/24	40	74	CI around median	0.001	0.001
22	UA	E007	Barium, total	mg/L	12/10/15 - 10/09/24	36	0	CI around median	0.0628	0.156
22	UA	E007	Beryllium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.001	0.001
22	UA	E007	Boron, total	mg/L	12/10/15 - 10/09/24	41	0	CB around T-S line	2.62	0.205
22	UA	E007	Cadmium, total	mg/L	12/10/15 - 10/09/24	36	8	CB around T-S line	0.00481	0.001
22	UA	E007	Chloride, total	mg/L	12/10/15 - 10/09/24	43	0	CB around T-S line	90.9	108

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WEST ASH POND SYSTEM
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
22	UA	E007	Chromium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.005	0.00130
22	UA	E007	Cobalt, total	mg/L	12/10/15 - 10/09/24	36	8	CI around mean	0.00193	0.00170
22	UA	E007	Fluoride, total	mg/L	12/10/15 - 10/09/24	36	5	CI around median	0.15	0.170
22	UA	E007	Lead, total	mg/L	12/10/15 - 10/09/24	36	97	CB around T-S line	0.001	0.001
22	UA	E007	Lithium, total	mg/L	12/10/15 - 10/09/24	40	0	CB around T-S line	0.043	0.0140
22	UA	E007	Mercury, total	mg/L	12/10/15 - 10/09/24	34	100	All ND - Last	0.0002	0.0002
22	UA	E007	Molybdenum, total	mg/L	12/10/15 - 10/09/24	40	0	CB around T-S line	0.0495	0.00200
22	UA	E007	pH (field)	SU	12/10/15 - 10/09/24	39	0	CI around median	7.6/7.7	6.7/7.4
22	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 10/09/24	27	0	CI around mean	0.35	2.60
22	UA	E007	Selenium, total	mg/L	12/10/15 - 10/09/24	36	5	CI around mean	0.0131	0.00110
22	UA	E007	Sulfate, total	mg/L	12/10/15 - 10/09/24	43	0	CB around linear reg	91.6	117
22	UA	E007	Thallium, total	mg/L	12/10/15 - 10/09/24	36	95	CB around T-S line	0.002	0.001
22	UA	E007	Total Dissolved Solids	mg/L	12/10/15 - 10/09/24	43	0	CB around linear reg	582	830
22D	UA	E007	Antimony, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.003	0.001
22D	UA	E007	Arsenic, total	mg/L	09/17/19 - 10/09/24	20	15	CI around median	0.0012	0.001
22D	UA	E007	Barium, total	mg/L	09/17/19 - 10/09/24	20	0	CB around T-S line	0.0649	0.156
22D	UA	E007	Beryllium, total	mg/L	09/17/19 - 10/09/24	19	100	All ND - Last	0.001	0.001
22D	UA	E007	Boron, total	mg/L	09/17/19 - 10/09/24	20	0	CB around linear reg	1.12	0.205
22D	UA	E007	Cadmium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.0005	0.001
22D	UA	E007	Chloride, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	91.3	108
22D	UA	E007	Chromium, total	mg/L	09/17/19 - 10/09/24	20	90	CB around T-S line	0.0015	0.00130
22D	UA	E007	Cobalt, total	mg/L	09/17/19 - 10/09/24	20	95	CI around median	0.001	0.00170
22D	UA	E007	Fluoride, total	mg/L	09/17/19 - 10/09/24	20	10	CI around median	0.11	0.170
22D	UA	E007	Lead, total	mg/L	09/17/19 - 10/09/24	20	90	CB around T-S line	0.000431	0.001
22D	UA	E007	Lithium, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	0.0149	0.0140
22D	UA	E007	Mercury, total	mg/L	12/11/19 - 10/09/24	19	100	All ND - Last	0.0002	0.0002
22D	UA	E007	Molybdenum, total	mg/L	09/17/19 - 10/09/24	20	5	CI around geomean	0.00653	0.00200

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WEST ASH POND SYSTEM
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
22D	UA	E007	pH (field)	SU	09/17/19 - 10/09/24	23	0	CI around mean	7.2/7.3	6.7/7.4
22D	UA	E007	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 10/09/24	17	0	CI around mean	0.818	2.60
22D	UA	E007	Selenium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.0025	0.00110
22D	UA	E007	Sulfate, total	mg/L	09/17/19 - 10/09/24	20	0	CB around linear reg	84.8	117
22D	UA	E007	Thallium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.002	0.001
22D	UA	E007	Total Dissolved Solids	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	611	830
23	UA	E007	Antimony, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.003	0.001
23	UA	E007	Arsenic, total	mg/L	12/10/15 - 10/09/24	40	90	CB around T-S line	0.001	0.001
23	UA	E007	Barium, total	mg/L	12/10/15 - 10/09/24	36	0	CB around T-S line	0.037	0.156
23	UA	E007	Beryllium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.001	0.001
23	UA	E007	Boron, total	mg/L	12/10/15 - 10/09/24	41	0	CB around T-S line	8.38	0.205
23	UA	E007	Cadmium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.0005	0.001
23	UA	E007	Chloride, total	mg/L	12/10/15 - 10/09/24	43	1	CB around T-S line	51.1	108
23	UA	E007	Chromium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.005	0.00130
23	UA	E007	Cobalt, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.001	0.00170
23	UA	E007	Fluoride, total	mg/L	12/10/15 - 10/09/24	36	5	CI around median	0.15	0.170
23	UA	E007	Lead, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.0005	0.001
23	UA	E007	Lithium, total	mg/L	12/10/15 - 10/09/24	40	12	CI around median	0.0047	0.0140
23	UA	E007	Mercury, total	mg/L	12/10/15 - 10/09/24	34	100	All ND - Last	0.0002	0.0002
23	UA	E007	Molybdenum, total	mg/L	12/10/15 - 10/09/24	40	0	CI around median	0.0146	0.00200
23	UA	E007	pH (field)	SU	12/10/15 - 10/09/24	38	0	CI around mean	7.4/7.5	6.7/7.4
23	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 10/09/24	27	0	CI around mean	0.252	2.60
23	UA	E007	Selenium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.0025	0.00110
23	UA	E007	Sulfate, total	mg/L	12/10/15 - 10/09/24	43	0	CI around median	421	117
23	UA	E007	Thallium, total	mg/L	12/10/15 - 10/09/24	36	100	All ND - Last	0.002	0.001
23	UA	E007	Total Dissolved Solids	mg/L	12/10/15 - 10/09/24	43	0	CI around mean	889	830
24/51	UA	E007	Antimony, total	mg/L	03/11/20 - 10/09/24	21	100	All ND - Last	0.003	0.001

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HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
24/51	UA	E007	Arsenic, total	mg/L	03/11/20 - 10/09/24	26	0	CB around linear reg	0.02	0.001
24/51	UA	E007	Barium, total	mg/L	03/11/20 - 10/09/24	21	0	CI around mean	0.106	0.156
24/51	UA	E007	Beryllium, total	mg/L	03/11/20 - 10/09/24	21	100	All ND - Last	0.001	0.001
24/51	UA	E007	Boron, total	mg/L	03/11/20 - 10/09/24	25	0	CB around linear reg	0.957	0.205
24/51	UA	E007	Cadmium, total	mg/L	03/11/20 - 10/09/24	21	100	All ND - Last	0.0005	0.001
24/51	UA	E007	Chloride, total	mg/L	03/11/20 - 10/09/24	25	0	CI around mean	97.7	108
24/51	UA	E007	Chromium, total	mg/L	03/11/20 - 10/09/24	21	62	CI around median	0.0015	0.00130
24/51	UA	E007	Cobalt, total	mg/L	03/11/20 - 10/09/24	21	57	CI around median	0.001	0.00170
24/51	UA	E007	Fluoride, total	mg/L	03/11/20 - 10/09/24	20	10	CI around median	0.13	0.170
24/51	UA	E007	Lead, total	mg/L	03/11/20 - 10/09/24	21	29	CB around T-S line	-0.00159	0.001
24/51	UA	E007	Lithium, total	mg/L	03/11/20 - 10/09/24	25	0	CI around median	0.023	0.0140
24/51	UA	E007	Mercury, total	mg/L	03/11/20 - 10/09/24	20	100	All ND - Last	0.0002	0.0002
24/51	UA	E007	Molybdenum, total	mg/L	03/11/20 - 10/09/24	25	4	CB around linear reg	0.00488	0.00200
24/51	UA	E007	pH (field)	SU	03/11/20 - 10/09/24	20	0	CI around mean	7.3/7.4	6.7/7.4
24/51	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 10/09/24	26	0	CB around linear reg	1.25	2.60
24/51	UA	E007	Selenium, total	mg/L	03/11/20 - 10/09/24	21	100	All ND - Last	0.0025	0.00110
24/51	UA	E007	Sulfate, total	mg/L	03/11/20 - 10/09/24	25	0	CB around linear reg	77.4	117
24/51	UA	E007	Thallium, total	mg/L	03/11/20 - 10/09/24	21	100	All ND - Last	0.002	0.001
24/51	UA	E007	Total Dissolved Solids	mg/L	03/11/20 - 10/09/24	25	0	CI around mean	627	830
27	UA	E007	Antimony, total	mg/L	09/12/18 - 10/08/24	23	100	All ND - Last	0.003	0.001
27	UA	E007	Arsenic, total	mg/L	09/12/18 - 10/08/24	23	60	CI around median	0.001	0.001
27	UA	E007	Barium, total	mg/L	09/12/18 - 10/08/24	23	0	CB around T-S line	0.0714	0.156
27	UA	E007	Beryllium, total	mg/L	09/12/18 - 10/08/24	23	100	All ND - Last	0.001	0.001
27	UA	E007	Boron, total	mg/L	09/12/18 - 10/08/24	23	0	CB around linear reg	1.44	0.205
27	UA	E007	Cadmium, total	mg/L	09/12/18 - 10/08/24	23	96	CI around median	0.001	0.001
27	UA	E007	Chloride, total	mg/L	03/08/16 - 10/08/24	28	0	CI around median	88	108
27	UA	E007	Chromium, total	mg/L	09/12/18 - 10/08/24	23	80	CB around T-S line	0.0015	0.00130

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WEST ASH POND SYSTEM
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
27	UA	E007	Cobalt, total	mg/L	09/12/18 - 10/08/24	23	8	CI around mean	0.00198	0.00170
27	UA	E007	Fluoride, total	mg/L	09/12/18 - 10/08/24	23	4	CI around median	0.12	0.170
27	UA	E007	Lead, total	mg/L	09/12/18 - 10/08/24	23	48	CI around median	0.001	0.001
27	UA	E007	Lithium, total	mg/L	09/12/18 - 10/08/24	23	0	CI around mean	0.0217	0.0140
27	UA	E007	Mercury, total	mg/L	09/12/18 - 10/08/24	23	100	All ND - Last	0.0002	0.0002
27	UA	E007	Molybdenum, total	mg/L	09/12/18 - 10/08/24	23	30	CI around median	0.0044	0.00200
27	UA	E007	pH (field)	SU	03/08/16 - 10/08/24	28	0	CI around mean	7.1/7.2	6.7/7.4
27	UA	E007	Radium 226 + Radium 228, total	pCi/L	09/12/18 - 10/08/24	17	0	CI around geomean	0.227	2.60
27	UA	E007	Selenium, total	mg/L	09/12/18 - 10/08/24	23	100	All ND - Last	0.0025	0.00110
27	UA	E007	Sulfate, total	mg/L	03/08/16 - 10/08/24	28	0	CB around linear reg	87.4	117
27	UA	E007	Thallium, total	mg/L	09/12/18 - 10/08/24	23	100	All ND - Last	0.002	0.001
27	UA	E007	Total Dissolved Solids	mg/L	03/08/16 - 10/08/24	28	0	CI around median	642	830
35	UA	E007	Antimony, total	mg/L	12/09/15 - 10/08/24	35	100	All ND - Last	0.003	0.001
35	UA	E007	Arsenic, total	mg/L	12/09/15 - 10/08/24	35	77	CI around median	0.001	0.001
35	UA	E007	Barium, total	mg/L	12/09/15 - 10/08/24	35	0	CI around mean	0.0412	0.156
35	UA	E007	Beryllium, total	mg/L	12/09/15 - 10/08/24	35	100	All ND - Last	0.001	0.001
35	UA	E007	Boron, total	mg/L	12/09/15 - 10/08/24	36	0	CB around linear reg	12.1	0.205
35	UA	E007	Cadmium, total	mg/L	12/09/15 - 10/08/24	35	100	All ND - Last	0.0005	0.001
35	UA	E007	Chloride, total	mg/L	12/09/15 - 10/08/24	36	0	CB around linear reg	17	108
35	UA	E007	Chromium, total	mg/L	12/09/15 - 10/08/24	35	97	CB around T-S line	0.0015	0.00130
35	UA	E007	Cobalt, total	mg/L	12/09/15 - 10/08/24	35	43	CI around median	0.001	0.00170
35	UA	E007	Fluoride, total	mg/L	12/09/15 - 10/08/24	36	3	CI around median	0.17	0.170
35	UA	E007	Lead, total	mg/L	12/09/15 - 10/08/24	35	91	CB around T-S line	0.000763	0.001
35	UA	E007	Lithium, total	mg/L	12/09/15 - 10/08/24	35	0	CI around mean	0.0245	0.0140
35	UA	E007	Mercury, total	mg/L	12/09/15 - 10/08/24	34	100	All ND - Last	0.0002	0.0002
35	UA	E007	Molybdenum, total	mg/L	12/09/15 - 10/08/24	35	0	CI around mean	0.0659	0.00200
35	UA	E007	pH (field)	SU	12/09/15 - 10/08/24	36	0	CB around linear reg	6.8/7.0	6.7/7.4

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

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
35	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/09/15 - 10/08/24	28	0	CI around median	0.291	2.60
35	UA	E007	Selenium, total	mg/L	12/09/15 - 10/08/24	35	100	All ND - Last	0.0025	0.00110
35	UA	E007	Sulfate, total	mg/L	12/09/15 - 10/08/24	36	0	CB around linear reg	696	117
35	UA	E007	Thallium, total	mg/L	12/09/15 - 10/08/24	35	100	All ND - Last	0.002	0.001
35	UA	E007	Total Dissolved Solids	mg/L	12/09/15 - 10/08/24	36	0	CB around linear reg	1,330	830
49	UA	E007	Antimony, total	mg/L	12/10/15 - 10/09/24	35	100	All ND - Last	0.003	0.001
49	UA	E007	Arsenic, total	mg/L	12/10/15 - 10/09/24	35	97	CI around median	0.001	0.001
49	UA	E007	Barium, total	mg/L	12/10/15 - 10/09/24	35	0	CB around T-S line	0.0615	0.156
49	UA	E007	Beryllium, total	mg/L	12/10/15 - 10/09/24	35	100	All ND - Last	0.001	0.001
49	UA	E007	Boron, total	mg/L	12/10/15 - 10/09/24	36	0	CB around linear reg	0.439	0.205
49	UA	E007	Cadmium, total	mg/L	12/10/15 - 10/09/24	35	26	CB around linear reg	0.0014	0.001
49	UA	E007	Chloride, total	mg/L	12/10/15 - 10/09/24	36	0	CI around median	100	108
49	UA	E007	Chromium, total	mg/L	12/10/15 - 10/09/24	35	97	CB around T-S line	0.0015	0.00130
49	UA	E007	Cobalt, total	mg/L	12/10/15 - 10/09/24	35	0	CI around mean	0.00429	0.00170
49	UA	E007	Fluoride, total	mg/L	12/10/15 - 10/09/24	36	3	CI around median	0.15	0.170
49	UA	E007	Lead, total	mg/L	12/10/15 - 10/09/24	35	91	CI around median	0.001	0.001
49	UA	E007	Lithium, total	mg/L	12/10/15 - 10/09/24	35	0	CI around mean	0.0239	0.0140
49	UA	E007	Mercury, total	mg/L	12/10/15 - 10/09/24	34	100	All ND - Last	0.0002	0.0002
49	UA	E007	Molybdenum, total	mg/L	12/10/15 - 10/09/24	35	0	CB around T-S line	0.0204	0.00200
49	UA	E007	pH (field)	SU	12/10/15 - 10/09/24	37	0	CI around mean	7.1/7.2	6.7/7.4
49	UA	E007	Radium 226 + Radium 228, total	pCi/L	12/10/15 - 10/09/24	28	0	CI around mean	0.348	2.60
49	UA	E007	Selenium, total	mg/L	12/10/15 - 10/09/24	35	100	All ND - Last	0.0025	0.00110
49	UA	E007	Sulfate, total	mg/L	12/10/15 - 10/09/24	36	0	CB around linear reg	68.5	117
49	UA	E007	Thallium, total	mg/L	12/10/15 - 10/09/24	35	100	All ND - Last	0.002	0.001
49	UA	E007	Total Dissolved Solids	mg/L	12/10/15 - 10/09/24	36	0	CB around linear reg	576	830
50	UA	E007	Antimony, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.003	0.001
50	UA	E007	Arsenic, total	mg/L	09/17/19 - 10/09/24	20	90	CI around median	0.001	0.001

ATTACHMENT B.
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HENNEPIN POWER PLANT
WEST ASH POND SYSTEM
HENNEPIN, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
50	UA	E007	Barium, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	0.0865	0.156
50	UA	E007	Beryllium, total	mg/L	09/17/19 - 10/09/24	19	100	All ND - Last	0.001	0.001
50	UA	E007	Boron, total	mg/L	09/17/19 - 10/09/24	20	0	CI around geomean	0.724	0.205
50	UA	E007	Cadmium, total	mg/L	09/17/19 - 10/09/24	20	5	CI around median	0.0011	0.001
50	UA	E007	Chloride, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	86.5	108
50	UA	E007	Chromium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.005	0.00130
50	UA	E007	Cobalt, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	0.00401	0.00170
50	UA	E007	Fluoride, total	mg/L	09/17/19 - 10/09/24	20	20	CI around median	0.11	0.170
50	UA	E007	Lead, total	mg/L	09/17/19 - 10/09/24	20	95	CB around T-S line	0.000518	0.001
50	UA	E007	Lithium, total	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	0.0202	0.0140
50	UA	E007	Mercury, total	mg/L	12/11/19 - 10/09/24	19	100	All ND - Last	0.0002	0.0002
50	UA	E007	Molybdenum, total	mg/L	09/17/19 - 10/09/24	20	0	CI around geomean	0.0303	0.00200
50	UA	E007	pH (field)	SU	09/17/19 - 10/09/24	23	0	CB around linear reg	7.3/7.6	6.7/7.4
50	UA	E007	Radium 226 + Radium 228, total	pCi/L	09/17/19 - 10/09/24	16	0	CI around mean	0.627	2.60
50	UA	E007	Selenium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.0025	0.00110
50	UA	E007	Sulfate, total	mg/L	09/17/19 - 10/09/24	20	0	CI around geomean	89.1	117
50	UA	E007	Thallium, total	mg/L	09/17/19 - 10/09/24	20	100	All ND - Last	0.002	0.001
50	UA	E007	Total Dissolved Solids	mg/L	09/17/19 - 10/09/24	20	0	CI around mean	610	830

ATTACHMENT B.
COMPARISON TO BACKGROUND - QUARTER 4, 2024
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WEST ASH POND SYSTEM
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 West Ash Pond System. That operating permit application, including the proposed groundwater monitoring program, remains under review by the IEPA and, therefore, DMG has not identified any actual exceedances.

Events:

E007 = Quarter 4, 2024 sampling event

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

SU = standard units

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

Statistical Calculation = method used to calculate the statistical result:

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

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

Statistical Result Code (if applicable):

NR¹ = Parameter not analyzed.

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

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

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

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

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

NS⁶ = Sampling pump could not yield a sample.

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

NS⁸ = A sample was not collected.

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

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