Illinois Power Resources Generating, LLC
1500 Eastport Plaza Dr.
Collinsville, IL 62234

January 30, 2024

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

Re: Edwards Ash Pond (IEPA ID: W1438050005-01) 2023 Annual Consolidated Report

Dear Mr. LeCrone:

In accordance with 35 IAC § 845.550, Illinois Power Resources Generating, LLC (IPRG) is submitting the annual consolidated report for the Edwards Ash Pond (IEPA ID: W1438050005-01), as enclosed.

Sincerely,

Dianna Tickner
Sr. Director Decommissioning & Demolition

Enclosures

Annual Consolidated Report
Illinois Power Resources Generating, LLC
Edwards Power Plant
Ash Pond; IEPA **ID: W1438050005-01**

In accordance with 35 IAC § 845.550, Illinois Power Resources Generating, LLC (IPRG) has prepared the annual consolidated report. The report is provided in three sections as follows:

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

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

A) Annual hazard potential classification certification

B) Annual structural stability assessment certification

C) Annual safety factor assessment certification

D) Inflow design flood control system plan certification

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

Section 1

Annual CCR Fugitive Dust Control Report

Annual CCR Fugitive Dust Control Report

for

Edwards Power Station

Prepared for:

Illinois Power Resources Generating, LLC

Edwards Power Station
7800 South Cilco Lane
Bartonville, IL 61607

November, 2023

Edwards Power Station
ANNUAL CCR FUGITIVE DUST CONTROL REPORT

Reporting Year: 4th Quarter 2022 through 3rd Quarter 2023

Completed by: Kevin Langer — Plant Closure Manager

Name — Title

This Annual CCR Fugitive Dust Control Report has been prepared for the Edwards Power Station 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 Edwards Power Station 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	Maintain CCR inventory levels in the CCR unit at lowest practicable height.
	Wet management of CCR bottom ash and CCR fly ash in the CCR surface impoundment.
	Water or apply chemical dust suppressant on areas of exposed CCR in or near the CCR unit, as necessary.
	Naturally occurring grass vegetation in areas of exposed CCR in the CCR surface impoundment.
Handling of CCR at the facility	Wet sluice CCR bottom ash and fly ash to CCR surface impoundment.
	Pneumatically convey dry CCR fly ash to storage silos in an enclosed system.
	CCR fly ash to be emplaced in an offsite landfill, or on site ash pond, is conditioned before loading into trucks for transport.
	Load CCR transport trucks from the CCR fly ash silos in a covered/contained area.
	Load CCR transport trucks from the CCR fly ash silos using a telescoping chute with vacuum equipment.

CCR Activity	Actions Taken to Control CCR Fugitive Dust
Handling of CCR at the facility	Perform housekeeping, as necessary, in the fly ash loading area.
	Operate fly ash handling system in accordance with good operating practices.
	Maintain and repair dust controls on the fly ash handling system as necessary.
Transportation of CCR at the facility	CCR to be emplaced in an offsite landfill, or on site ash pond, is conditioned before being loaded into vehicles for transport.
	Cover or enclose trucks used to transport CCR fly ash offsite.
	Limit the speed of vehicles to no more than 15 mph on facility roads.
	Cover or enclose trucks used to transport CCR other than fly ash, as necessary.
	Sweep or rinse off the outside of the trucks transporting CCR, as necessary.
	Water facility roads used to transport CCR, as needed.
	Sweep paved roads, as needed.
	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. The control measures included the use of a water truck for water application on both paved and unpaved roads. No changes to the control measures listed in the Dust Plan were needed in order to control CCR fugitive dust.

The facility permanently ceased operation on December 31, 2022. The Dust Plan will be amended accordingly for future reports.

Section 2 Record of Citizen Complaints

No citizen complaints were received regarding CCR fugitive dust at Edwards Power Station 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	Edwards Power Station Peoria County, Illinois 62327 10/4/2023
Operator Name / Address	Luminant Generation Company LLC 6555 Sierra Drive, Irving, TX 75039
CCR unit	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 I CCR surface impoundment.
(b)(2)(A) Any changes in geometry of the structure since the previous annual inspection.	Based on a review of the CCR unit's records and visual observation during the on-site inspection, no changes in geometry of the structure have taken place since the previous annual inspection.
(b)(2)(B) The location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection	See the attached.
b)(2)(C) The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection;	See the attached.
b)(2)(D) The storage capacity of the impounding structure at the time of the inspection	Approximately 3300 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 3010 acre-feet
(b)(2)(F) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit	Based on a review of the CCR unit's records and visual observation during the on-site inspection, there was no appearance of an actual or potential structural weakness of the CCR unit, nor an existing condition that is disrupting or would disrupt the operation and safety of the unit.

INSPECTION REPORT 35 IAC § 845.540	
(b)(2)(G) Any other changes that may have affected the stability or operation of the impounding structure since the previous annual inspection.	Based on a review of the CCR unit's records and visual observation during the on-site inspection, no other changes which may have affected the stability or operation of the CCR unit have taken place since the previous annual inspection.
(b)(1)(G) The inflow design flood control system plan certification (see Section 845.510(c))	Based on a review of the CCR unit's records, the CCR unit is designed, operated, and maintained to adequately manage the flow from the CCR impoundment and control the peak discharge from the inflow design flood.

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

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

James Knutelski, PE
Illinois PE No. 062-054206, Expires: 11/30/2025
Date: 01/07/2024

Site Name: Edwards Power Station

CCR Unit: Ash Pond

35 IAC § 845.540 (b)(2)(B)		
Instrument ID #	Type	Maximum recorded reading since previous annual inspection (ft)
P001	Piezometer	439.3'
P002	Piezometer	448.8'
P003	Piezometer	439.5'
P004	Piezometer	442.5'

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		444			9	
CCR	433		485	17		69

Section 3

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

Prepared for
Illinois Power Resources Generating, LLC

Date
January 31, 2024

Project No.
1940103649-007

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

ASH POND
EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

IEPA ID NO. W1438050005-01

RAMBOLL Bright ideas. Sustainable change.

2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT EDWARDS POWER PLANT ASH POND

Project name	**Edwards Power Plant Ash Pond**
Project no.	**1940103649-007**
Recipient	**Illinois Power Resources Generating, LLC**
Document type	**Annual Groundwater Monitoring and Corrective Action Report**
Version	**FINAL**
Date	**January 31, 2024**
Prepared by	**Rachel A. Banoff, EIT**
Checked by	**Lauren D. Cook**
Approved by	**Brian G. Hennings, PG**
Description	**Annual Report required by 35 I.A.C. § 845**

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Rachel A. Banoff, EIT
Environmental Engineer

Brian G. Hennings, PG
Project Officer, Hydrogeology

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ATTACHMENTS

ACRONYMS AND ABBREVIATIONS

35 I.A.C.	Title 35 of the Illinois Administrative Code
AP	Ash Pond
ASD	Alternative Source Demonstration
CCA	compliance commitment agreement
CCR	coal combustion residuals
CMA	assessment of corrective measures
E001	Quarter 2, 2023 sampling event
E002	Quarter 3, 2023 sampling event
E003	Quarter 4, 2023 sampling event
EPP	Edwards Power Plant
GWPS	groundwater protection standard
ID	identification
IEPA	Illinois Environmental Protection Agency
IPRG	Illinois Power Resources Generating, LLC
NID	National Inventory of Dams
No.	number
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SI	surface impoundment
SSI	statistically significant increase
TDS	total dissolved solids

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 Ash Pond (AP) located at Edwards Power Plant (EPP) near Bartonville, Illinois. The AP is recognized by coal combustion residuals (CCR) unit identification (ID) number (No.) 301, Illinois Environmental Protection Agency (IEPA) ID No. W1438050005-01, and National Inventory of Dams (NID) No. IL50710.

As required by 35 I.A.C. § 845, an operating permit application for the AP was submitted by Illinois Power Resources Generating, LLC (IPRG) to IEPA by October 31, 2021 in accordance with the requirements specified in 35 I.A.C. § 845.230(d) and is pending approval. IPRG 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 AP commenced in the second quarter of 2023. All available groundwater monitoring data collected in 2023 is summarized in **Table 1** (field parameters and analytical results) and **Attachment A** (groundwater elevation data). After the AP 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]), statistically derived values for constituent concentrations observed at compliance monitoring wells were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS (**Table 2**). The following GWPS exceedances were determined in 2023[1]:

- Boron in AP07S, AW-05, AW-15S, AW-19, and AW-21
- Sulfate in AW-15S

An Alternative Source Demonstration (ASD) was not completed for the GWPS exceedances listed above; therefore, these exceedances will be addressed in accordance with 35 I.A.C. § 845.660. The assessment of corrective measures (CMA) was initiated on December 7, 2023. A CMA extension request was submitted to IEPA on December 7, 2023 and approved on December 7, 2023 (**Attachment B**). Because the CMA is in progress, a remedy has not yet been selected under 35 I.A.C. § 845.670 and remedial activities have not been initiated under 35 I.A.C. § 845.780 in 2023.

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

Supplemental Tables and Attachments were included in this report for wells not contained within the 35 I.A.C. § 845 Groundwater Monitoring Well Network[2]. Supplemental groundwater

[1] GWPS exceedances determined after January 31, 2024 will be reported in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

[2] Supplemental data is being provided as part of on-going nature and extent characterization activities consistent with 35 I.A.C. § 845.650(d)(1) at the Edwards Ash Pond.

monitoring data collected in 2023 is summarized in **Table 3** (supplemental field parameters and analytical results) and **Attachment D** (supplemental groundwater elevation data). In accordance with 35 I.A.C. § 845.610(b)(3)(C) statistically derived values for constituent concentrations observed at supplemental monitoring wells were also evaluated quarterly for exceedances of the GWPS (**Table 4**). The following supplemental GWPS exceedances were determined in 2023 [3]:

- Boron in AW-20

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

[3] Supplemental GWPS exceedances determined after January 31, 2024 will be reported in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

1. INTRODUCTION

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

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

A. A map, aerial image, or diagram showing the CCR SI and all background (or upgradient) and [downgradient] compliance monitoring wells, including the well identification numbers, that are part of the groundwater monitoring program for the CCR SI (**Figure 1**) and a visual delineation of any exceedances of the [groundwater protection standard] GWPS (**Figures 2 and 3**).

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 5 through 13**).

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 (**Sections 3.3 and 3.5** and **Attachments C and E**).

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 that provides 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 AP for calendar year 2023.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

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

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

As noted in the **Executive Summary** and **Section 3.2**, GWPS exceedances were determined for the AP in 2023. An ASD was not completed for these GWPS exceedances; they will be addressed in accordance with 35 I.A.C. § 845.660. The assessment of corrective measures (CMA) was initiated on December 7, 2023. A CMA extension request was submitted to IEPA on December 7, 2023 and approved on December 7, 2023 (**Attachment B**). Because the CMA is in progress, a remedy has not yet been selected under 35 I.A.C. § 845.670 and remedial activities have not been initiated under 35 I.A.C. § 845.780 in 2023.

3. KEY ACTIONS COMPLETED IN 2023

The proposed 35 I.A.C. § 845 monitoring system is presented in **Figure 1**. No wells were installed or decommissioned in 2023.

Monitoring well inspections and redevelopment of the monitoring wells that were not sampled in 2022 were also completed prior to initiating groundwater monitoring in the second quarter of 2023.

Pressure transducers equipped with data loggers were deployed in network monitoring wells for measurement of monthly water level elevations as required by 35 I.A.C. § 845.650(b)(2). **Attachments A and D** summarize the groundwater elevation data collected in 2023. Potentiometric surfaces for April through December 2023 are included in **Figures 5 through 13**.

A summary of the samples collected in 2023 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 beginning in the second quarter of 2023. 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 2023 is included in **Table A** on the following page. **Table 1** is a summary of the field parameters and analytical results from the 2023 sampling events. Laboratory analytical reports and field data sheets were provided in the quarterly Groundwater Monitoring Data and Detected Exceedances Reports for Quarter 2 and Quarter 3 (Ramboll, 2023a; Ramboll, 2023b); 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 2023

Event ID	Sampling Dates [1, 2, 3]	Analytical Data Receipt Date	Exceedance Determination Date [4]	ASD Completion Date	Required CMA Initiation Date [5]
E001	June 12-15, 2023	August 9, 2023	October 8, 2023	NA	December 7, 2023
E002	August 21-23, 2023 August 28-29, 2023	October 14, 2023	December 13, 2023	TBD	NA
E003	November 1-3, 2023 November 6, 2023 November 17, 2023	December 14, 2023	TBD	TBD	NA

Notes:

ASD: Alternative Source Demonstration

CMA: assessment of corrective measures

NA: not applicable

TBD: to be determined in 2024

[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: AP05S and AW-08

[3] The following compliance wells were sampled for each event: AP07S, AW-01, AW-05, AW-06, AW-09, AW-10, AW-11, AW-14, AW-15, AW-15S, AW-16, AW-17, AW-18, AW-19, and AW-21

[4] GWPS exceedances determined after January 31, 2024 will be reported in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

[5] Exceedances for events E002 and E003 may be incorporated into the CMA initiated after event E001 on a case by case basis, as opposed to generating a new CMA.

3.2 Exceedances of GWPS

In accordance with 35 I.A.C. § 845.610(b)(3)(C), the statistically derived values identified as Statistical Results in **Table 2** were compared with the GWPSs described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS. The following statistical exceedances of the GWPSs were determined in 2023 and are shown on **Figures 2 and 3**[4]:

- Boron in AP07S, AW-05, AW-15S, AW-19, and AW-21
- Sulfate in AW-15S

As allowed in 35 I.A.C. § 845.650(e), an ASD was evaluated for the determined exceedances of the GWPSs summarized above. An ASD has not been completed. The exceedances listed above will be addressed in accordance with 35 I.A.C. § 845.660. The CMA was initiated on December 7, 2023. A CMA extension request was submitted to IEPA on December 7, 2023 and approved on December 7, 2023 (**Attachment B**). Because the CMA is in progress, a remedy was not selected under 35 I.A.C. § 845.670 and remedial activities have not been initiated under 35 I.A.C. § 845.780 in 2023.

3.3 Exceedances of Background

In accordance with 35 I.A.C. § 845.610(b)(3)(B), groundwater monitoring data were evaluated quarterly for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

3.4 Supplemental Exceedances of GWPS

Supplemental Tables and Attachments were included in this report for wells not contained within the 35 I.A.C. § 845 Groundwater Monitoring Well Network[5]. In accordance with 35 I.A.C. § 845.610(b)(3)(C), the supplemental statistically derived values identified as Statistical Results in **Table 4** were compared with the GWPSs described in 35 I.A.C. § 845.600 to determine exceedances of the GWPS. The following statistical exceedances of the GWPSs were determined in 2023[6] and are shown on **Figure 4**:

- Boron in AW-20

3.5 Supplemental Exceedances of Background

In accordance with 35 I.A.C. § 845.610(b)(3)(B), supplemental groundwater monitoring data were evaluated quarterly for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment E** shows the statistically derived values compared to background levels.

[4] GWPS exceedances determined after January 31, 2024 will be reported in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

[5] Supplemental data is being provided as part of on-going nature and extent characterization activities consistent with 35 I.A.C. § 845.650(d)(1) at the Edwards Power Plant Ash Pond.

[6] Supplemental GWPS exceedances determined after January 31, 2024 will be reported in the Quarter 4, 2023 Groundwater Monitoring Data and Detected Exceedances Report.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

Groundwater monitoring commenced in the second quarter of 2023. 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 AP has been issued an approved operating permit, groundwater monitoring shall be conducted in accordance with that operating permit.

Due to malfunctioning pressure transducers, data gaps exist in monthly water level elevations prior to the fourth quarter. Monthly depth to water measurements were collected manually in the fourth quarter. Pressure transducers were refurbished and were redeployed in January 2024.

5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

- Continuation of groundwater monitoring in accordance with the proposed groundwater monitoring plan and sampling methodologies provided in the operating permit application for the AP. After the AP 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 2024 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 (*i.e.,* assessment of corrective measures) will be met.
- The CMA process will continue in accordance with 35 I.A.C. § 845.660 in 2024. A CMA was initiated on December 7, 2023, and a CMA extension request was approved by IEPA on December 7, 2023. The CMA will be submitted to IEPA on or before March 6, 2024.

6. REFERENCES

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

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan.* Edwards Power Plant, Ash Pond, Bartonville, Illinois. Illinois Power Resources Generating, LLC. October 25, 2021.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023a. 35 I.A.C. § 845.610(B)(3)(D) Groundwater Monitoring Data and Detected Exceedances, 2023 Quarter 2, Ash Pond, Edwards Power Plant, Bartonville, Illinois. October 8, 2023.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023b. 35 I.A.C. § 845.610(B)(3)(D) Groundwater Monitoring Data and Detected Exceedances, 2023 Quarter 3, Ash Pond, Edwards Power Plant, Bartonville, Illinois. December 13, 2023.

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AP05S	Background	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AP05S	Background	E001	06/14/2023	Arsenic, total	0.00360	mg/L
AP05S	Background	E001	06/14/2023	Barium, total	1.10	mg/L
AP05S	Background	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AP05S	Background	E001	06/14/2023	Boron, total	0.330 J+	mg/L
AP05S	Background	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AP05S	Background	E001	06/14/2023	Calcium, total	110	mg/L
AP05S	Background	E001	06/14/2023	Chloride, total	46.0	mg/L
AP05S	Background	E001	06/14/2023	Chromium, total	0.00860	mg/L
AP05S	Background	E001	06/14/2023	Cobalt, total	0.00520	mg/L
AP05S	Background	E001	06/14/2023	Dissolved Oxygen	0.0600	mg/L
AP05S	Background	E001	06/14/2023	Fluoride, total	0.04 U	mg/L
AP05S	Background	E001	06/14/2023	Lead, total	0.00510	mg/L
AP05S	Background	E001	06/14/2023	Lithium, total	0.0350	mg/L
AP05S	Background	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AP05S	Background	E001	06/14/2023	Molybdenum, total	0.00079 J	mg/L
AP05S	Background	E001	06/14/2023	Oxidation Reduction Potential	-151	mV
AP05S	Background	E001	06/14/2023	pH (field)	6.8	SU
AP05S	Background	E001	06/14/2023	Radium 226 + Radium 228, total	4.53	pCi/L
AP05S	Background	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AP05S	Background	E001	06/14/2023	Specific Conductance @ 25C (field)	1,699	micromhos/cm
AP05S	Background	E001	06/14/2023	Sulfate, total	3.10	mg/L
AP05S	Background	E001	06/14/2023	Temperature	18.5	degrees C
AP05S	Background	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AP05S	Background	E001	06/14/2023	Total Dissolved Solids	1,400 J+	mg/L
AP05S	Background	E001	06/14/2023	Turbidity, field	1,900	NTU
AW-08	Background	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AW-08	Background	E001	06/14/2023	Arsenic, total	0.0100	mg/L
AW-08	Background	E001	06/14/2023	Barium, total	0.190	mg/L
AW-08	Background	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-08	Background	E001	06/14/2023	Boron, total	0.0920 J+	mg/L
AW-08	Background	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-08	Background	E001	06/14/2023	Calcium, total	140	mg/L
AW-08	Background	E001	06/14/2023	Chloride, total	16.0	mg/L
AW-08	Background	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-08	Background	E001	06/14/2023	Cobalt, total	0.00048 U	mg/L
AW-08	Background	E001	06/14/2023	Dissolved Oxygen	8.20	mg/L
AW-08	Background	E001	06/14/2023	Fluoride, total	0.0669 J	mg/L
AW-08	Background	E001	06/14/2023	Lead, total	0.00022 U	mg/L
AW-08	Background	E001	06/14/2023	Lithium, total	0.0099 J	mg/L
AW-08	Background	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-08	Background	E001	06/14/2023	Molybdenum, total	0.00160	mg/L
AW-08	Background	E001	06/14/2023	Oxidation Reduction Potential	-141	mV
AW-08	Background	E001	06/14/2023	pH (field)	7.1	SU
AW-08	Background	E001	06/14/2023	Radium 226 + Radium 228, total	0.815 J+	pCi/L
AW-08	Background	E001	06/14/2023	Selenium, total	0.00074 U	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-08	Background	E001	06/14/2023	Specific Conductance @ 25C (field)	1,353	micromhos/cm
AW-08	Background	E001	06/14/2023	Sulfate, total	0.18 U	mg/L
AW-08	Background	E001	06/14/2023	Temperature	19.4	degrees C
AW-08	Background	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-08	Background	E001	06/14/2023	Total Dissolved Solids	660 J+	mg/L
AW-08	Background	E001	06/14/2023	Turbidity, field	0 U	NTU
AP07S	Compliance	E001	06/15/2023	Antimony, total	0.00043 U	mg/L
AP07S	Compliance	E001	06/15/2023	Arsenic, total	0.00110	mg/L
AP07S	Compliance	E001	06/15/2023	Barium, total	0.110	mg/L
AP07S	Compliance	E001	06/15/2023	Beryllium, total	0.00059 U	mg/L
AP07S	Compliance	E001	06/15/2023	Boron, total	18.0	mg/L
AP07S	Compliance	E001	06/15/2023	Cadmium, total	0.00074 U	mg/L
AP07S	Compliance	E001	06/15/2023	Calcium, total	240	mg/L
AP07S	Compliance	E001	06/15/2023	Chloride, total	76.0	mg/L
AP07S	Compliance	E001	06/15/2023	Chromium, total	0.0130	mg/L
AP07S	Compliance	E001	06/15/2023	Cobalt, total	0.00430	mg/L
AP07S	Compliance	E001	06/15/2023	Dissolved Oxygen	2.00	mg/L
AP07S	Compliance	E001	06/15/2023	Fluoride, total	0.151 J	mg/L
AP07S	Compliance	E001	06/15/2023	Lead, total	0.00320	mg/L
AP07S	Compliance	E001	06/15/2023	Lithium, total	0.0088 J	mg/L
AP07S	Compliance	E001	06/15/2023	Mercury, total	0.00014 U	mg/L
AP07S	Compliance	E001	06/15/2023	Molybdenum, total	0.00120	mg/L
AP07S	Compliance	E001	06/15/2023	Oxidation Reduction Potential	61.5	mV
AP07S	Compliance	E001	06/15/2023	pH (field)	6.8	SU
AP07S	Compliance	E001	06/15/2023	Radium 226 + Radium 228, total	1.20 J+	pCi/L
AP07S	Compliance	E001	06/15/2023	Selenium, total	0.00074 U	mg/L
AP07S	Compliance	E001	06/15/2023	Specific Conductance @ 25C (field)	1,439	micromhos/cm
AP07S	Compliance	E001	06/15/2023	Sulfate, total	480	mg/L
AP07S	Compliance	E001	06/15/2023	Temperature	20.6	degrees C
AP07S	Compliance	E001	06/15/2023	Thallium, total	0.00038 U	mg/L
AP07S	Compliance	E001	06/15/2023	Total Dissolved Solids	1,600	mg/L
AP07S	Compliance	E001	06/15/2023	Turbidity, field	901	NTU
AW-01	Compliance	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AW-01	Compliance	E001	06/14/2023	Arsenic, total	0.00630	mg/L
AW-01	Compliance	E001	06/14/2023	Barium, total	0.140	mg/L
AW-01	Compliance	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-01	Compliance	E001	06/14/2023	Boron, total	0.0720 J+	mg/L
AW-01	Compliance	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-01	Compliance	E001	06/14/2023	Calcium, total	180	mg/L
AW-01	Compliance	E001	06/14/2023	Chloride, total	10.0	mg/L
AW-01	Compliance	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-01	Compliance	E001	06/14/2023	Cobalt, total	0.00340	mg/L
AW-01	Compliance	E001	06/14/2023	Dissolved Oxygen	0.150	mg/L
AW-01	Compliance	E001	06/14/2023	Fluoride, total	0.04 U	mg/L
AW-01	Compliance	E001	06/14/2023	Lead, total	0.00022 U	mg/L
AW-01	Compliance	E001	06/14/2023	Lithium, total	0.005 U	mg/L

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AW-01	Compliance	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-01	Compliance	E001	06/14/2023	Molybdenum, total	0.00340	mg/L
AW-01	Compliance	E001	06/14/2023	Oxidation Reduction Potential	-72.0	mV
AW-01	Compliance	E001	06/14/2023	pH (field)	6.8	SU
AW-01	Compliance	E001	06/14/2023	Radium 226 + Radium 228, total	0.773	pCi/L
AW-01	Compliance	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-01	Compliance	E001	06/14/2023	Specific Conductance @ 25C (field)	1,275	micromhos/cm
AW-01	Compliance	E001	06/14/2023	Sulfate, total	52.0	mg/L
AW-01	Compliance	E001	06/14/2023	Temperature	18.2	degrees C
AW-01	Compliance	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-01	Compliance	E001	06/14/2023	Total Dissolved Solids	780 J+	mg/L
AW-01	Compliance	E001	06/14/2023	Turbidity, field	196	NTU
AW-05	Compliance	E001	06/15/2023	Antimony, total	0.00043 U	mg/L
AW-05	Compliance	E001	06/15/2023	Arsenic, total	0.00450	mg/L
AW-05	Compliance	E001	06/15/2023	Barium, total	0.160	mg/L
AW-05	Compliance	E001	06/15/2023	Beryllium, total	0.00059 U	mg/L
AW-05	Compliance	E001	06/15/2023	Boron, total	3.60	mg/L
AW-05	Compliance	E001	06/15/2023	Cadmium, total	0.00074 U	mg/L
AW-05	Compliance	E001	06/15/2023	Calcium, total	170	mg/L
AW-05	Compliance	E001	06/15/2023	Chloride, total	71.0	mg/L
AW-05	Compliance	E001	06/15/2023	Chromium, total	0.0100	mg/L
AW-05	Compliance	E001	06/15/2023	Cobalt, total	0.00640	mg/L
AW-05	Compliance	E001	06/15/2023	Dissolved Oxygen	0.270	mg/L
AW-05	Compliance	E001	06/15/2023	Fluoride, total	0.173 J	mg/L
AW-05	Compliance	E001	06/15/2023	Lead, total	0.00440	mg/L
AW-05	Compliance	E001	06/15/2023	Lithium, total	0.017 J	mg/L
AW-05	Compliance	E001	06/15/2023	Mercury, total	0.00014 U	mg/L
AW-05	Compliance	E001	06/15/2023	Molybdenum, total	0.00230	mg/L
AW-05	Compliance	E001	06/15/2023	Oxidation Reduction Potential	95.0	mV
AW-05	Compliance	E001	06/15/2023	pH (field)	7.0	SU
AW-05	Compliance	E001	06/15/2023	Radium 226 + Radium 228, total	3.09	pCi/L
AW-05	Compliance	E001	06/15/2023	Selenium, total	0.00074 U	mg/L
AW-05	Compliance	E001	06/15/2023	Specific Conductance @ 25C (field)	1,550	micromhos/cm
AW-05	Compliance	E001	06/15/2023	Sulfate, total	350	mg/L
AW-05	Compliance	E001	06/15/2023	Temperature	23.9	degrees C
AW-05	Compliance	E001	06/15/2023	Thallium, total	0.00038 U	mg/L
AW-05	Compliance	E001	06/15/2023	Total Dissolved Solids	1,100	mg/L
AW-05	Compliance	E001	06/15/2023	Turbidity, field	1,000	NTU
AW-06	Compliance	E001	06/14/2023	Antimony, total	0.00071 J	mg/L
AW-06	Compliance	E001	06/14/2023	Arsenic, total	0.00300	mg/L
AW-06	Compliance	E001	06/14/2023	Barium, total	0.160	mg/L
AW-06	Compliance	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-06	Compliance	E001	06/14/2023	Boron, total	0.120 J+	mg/L
AW-06	Compliance	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-06	Compliance	E001	06/14/2023	Calcium, total	100	mg/L
AW-06	Compliance	E001	06/14/2023	Chloride, total	35.0	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-06	Compliance	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-06	Compliance	E001	06/14/2023	Cobalt, total	0.0006 J	mg/L
AW-06	Compliance	E001	06/14/2023	Dissolved Oxygen	1.40	mg/L
AW-06	Compliance	E001	06/14/2023	Fluoride, total	0.319	mg/L
AW-06	Compliance	E001	06/14/2023	Lead, total	0.00049 J	mg/L
AW-06	Compliance	E001	06/14/2023	Lithium, total	0.012 J	mg/L
AW-06	Compliance	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-06	Compliance	E001	06/14/2023	Molybdenum, total	0.00490	mg/L
AW-06	Compliance	E001	06/14/2023	Oxidation Reduction Potential	-99.0	mV
AW-06	Compliance	E001	06/14/2023	pH (field)	7.1	SU
AW-06	Compliance	E001	06/14/2023	Radium 226 + Radium 228, total	0.910 J+	pCi/L
AW-06	Compliance	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-06	Compliance	E001	06/14/2023	Specific Conductance @ 25C (field)	1,030	micromhos/cm
AW-06	Compliance	E001	06/14/2023	Sulfate, total	21.0	mg/L
AW-06	Compliance	E001	06/14/2023	Temperature	16.2	degrees C
AW-06	Compliance	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-06	Compliance	E001	06/14/2023	Total Dissolved Solids	600 J+	mg/L
AW-06	Compliance	E001	06/14/2023	Turbidity, field	340	NTU
AW-09	Compliance	E001	06/12/2023	Antimony, total	0.00043 U	mg/L
AW-09	Compliance	E001	06/12/2023	Arsenic, total	0.0100	mg/L
AW-09	Compliance	E001	06/12/2023	Barium, total	0.290	mg/L
AW-09	Compliance	E001	06/12/2023	Beryllium, total	0.00059 U	mg/L
AW-09	Compliance	E001	06/12/2023	Boron, total	0.260	mg/L
AW-09	Compliance	E001	06/12/2023	Cadmium, total	0.00074 U	mg/L
AW-09	Compliance	E001	06/12/2023	Calcium, total	120	mg/L
AW-09	Compliance	E001	06/12/2023	Chloride, total	29.0	mg/L
AW-09	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
AW-09	Compliance	E001	06/12/2023	Cobalt, total	0.00220	mg/L
AW-09	Compliance	E001	06/12/2023	Dissolved Oxygen	1.70	mg/L
AW-09	Compliance	E001	06/12/2023	Fluoride, total	0.04 U	mg/L
AW-09	Compliance	E001	06/12/2023	Lead, total	0.00031 J	mg/L
AW-09	Compliance	E001	06/12/2023	Lithium, total	0.015 J	mg/L
AW-09	Compliance	E001	06/12/2023	Mercury, total	0.00014 U	mg/L
AW-09	Compliance	E001	06/12/2023	Molybdenum, total	0.0210	mg/L
AW-09	Compliance	E001	06/12/2023	Oxidation Reduction Potential	-122	mV
AW-09	Compliance	E001	06/12/2023	pH (field)	6.9	SU
AW-09	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	0.23	pCi/L
AW-09	Compliance	E001	06/12/2023	Selenium, total	0.00074 U	mg/L
AW-09	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	1,550	micromhos/cm
AW-09	Compliance	E001	06/12/2023	Sulfate, total	0.18 U	mg/L
AW-09	Compliance	E001	06/12/2023	Temperature	16.2	degrees C
AW-09	Compliance	E001	06/12/2023	Thallium, total	0.00038 U	mg/L
AW-09	Compliance	E001	06/12/2023	Total Dissolved Solids	790	mg/L
AW-09	Compliance	E001	06/12/2023	Turbidity, field	67.2	NTU
AW-10	Compliance	E001	06/13/2023	Antimony, total	0.00043 U	mg/L
AW-10	Compliance	E001	06/13/2023	Arsenic, total	0.00990	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-10	Compliance	E001	06/13/2023	Barium, total	0.990	mg/L
AW-10	Compliance	E001	06/13/2023	Beryllium, total	0.00059 U	mg/L
AW-10	Compliance	E001	06/13/2023	Boron, total	0.460	mg/L
AW-10	Compliance	E001	06/13/2023	Cadmium, total	0.00074 U	mg/L
AW-10	Compliance	E001	06/13/2023	Calcium, total	130	mg/L
AW-10	Compliance	E001	06/13/2023	Chloride, total	89.0	mg/L
AW-10	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
AW-10	Compliance	E001	06/13/2023	Cobalt, total	0.00300	mg/L
AW-10	Compliance	E001	06/13/2023	Dissolved Oxygen	0.0100	mg/L
AW-10	Compliance	E001	06/13/2023	Fluoride, total	0.04 U	mg/L
AW-10	Compliance	E001	06/13/2023	Lead, total	0.00140	mg/L
AW-10	Compliance	E001	06/13/2023	Lithium, total	0.0370	mg/L
AW-10	Compliance	E001	06/13/2023	Mercury, total	0.00014 U	mg/L
AW-10	Compliance	E001	06/13/2023	Molybdenum, total	0.00120 J	mg/L
AW-10	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-151	mV
AW-10	Compliance	E001	06/13/2023	pH (field)	6.9	SU
AW-10	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	2.95 J+	pCi/L
AW-10	Compliance	E001	06/13/2023	Selenium, total	0.00074 U	mg/L
AW-10	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	2,174	micromhos/cm
AW-10	Compliance	E001	06/13/2023	Sulfate, total	0.18 U	mg/L
AW-10	Compliance	E001	06/13/2023	Temperature	21.1	degrees C
AW-10	Compliance	E001	06/13/2023	Thallium, total	0.00038 U	mg/L
AW-10	Compliance	E001	06/13/2023	Total Dissolved Solids	1,200	mg/L
AW-10	Compliance	E001	06/13/2023	Turbidity, field	991	NTU
AW-11	Compliance	E001	06/13/2023	Antimony, total	0.00043 U	mg/L
AW-11	Compliance	E001	06/13/2023	Arsenic, total	0.00990	mg/L
AW-11	Compliance	E001	06/13/2023	Barium, total	0.940	mg/L
AW-11	Compliance	E001	06/13/2023	Beryllium, total	0.00059 U	mg/L
AW-11	Compliance	E001	06/13/2023	Boron, total	0.240	mg/L
AW-11	Compliance	E001	06/13/2023	Cadmium, total	0.00074 U	mg/L
AW-11	Compliance	E001	06/13/2023	Calcium, total	160	mg/L
AW-11	Compliance	E001	06/13/2023	Chloride, total	33.0	mg/L
AW-11	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
AW-11	Compliance	E001	06/13/2023	Cobalt, total	0.0015 J	mg/L
AW-11	Compliance	E001	06/13/2023	Dissolved Oxygen	0.100	mg/L
AW-11	Compliance	E001	06/13/2023	Fluoride, total	0.04 U	mg/L
AW-11	Compliance	E001	06/13/2023	Lead, total	0.00041 J	mg/L
AW-11	Compliance	E001	06/13/2023	Lithium, total	0.018 J	mg/L
AW-11	Compliance	E001	06/13/2023	Mercury, total	0.00014 U	mg/L
AW-11	Compliance	E001	06/13/2023	Molybdenum, total	0.00140	mg/L
AW-11	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-160	mV
AW-11	Compliance	E001	06/13/2023	pH (field)	7.0	SU
AW-11	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	2.29 J+	pCi/L
AW-11	Compliance	E001	06/13/2023	Selenium, total	0.00074 U	mg/L
AW-11	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,757	micromhos/cm
AW-11	Compliance	E001	06/13/2023	Sulfate, total	0.18 J	mg/L

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AW-11	Compliance	E001	06/13/2023	Temperature	17.6	degrees C
AW-11	Compliance	E001	06/13/2023	Thallium, total	0.00038 U	mg/L
AW-11	Compliance	E001	06/13/2023	Total Dissolved Solids	1,100	mg/L
AW-11	Compliance	E001	06/13/2023	Turbidity, field	329	NTU
AW-14	Compliance	E001	06/13/2023	Antimony, total	0.00046 J	mg/L
AW-14	Compliance	E001	06/13/2023	Arsenic, total	0.00780	mg/L
AW-14	Compliance	E001	06/13/2023	Barium, total	0.800	mg/L
AW-14	Compliance	E001	06/13/2023	Beryllium, total	0.00059 U	mg/L
AW-14	Compliance	E001	06/13/2023	Boron, total	0.180	mg/L
AW-14	Compliance	E001	06/13/2023	Cadmium, total	0.00074 U	mg/L
AW-14	Compliance	E001	06/13/2023	Calcium, total	180	mg/L
AW-14	Compliance	E001	06/13/2023	Chloride, total	24.0	mg/L
AW-14	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
AW-14	Compliance	E001	06/13/2023	Cobalt, total	0.00200	mg/L
AW-14	Compliance	E001	06/13/2023	Dissolved Oxygen	0.140	mg/L
AW-14	Compliance	E001	06/13/2023	Fluoride, total	0.04 U	mg/L
AW-14	Compliance	E001	06/13/2023	Lead, total	0.00022 U	mg/L
AW-14	Compliance	E001	06/13/2023	Lithium, total	0.014 J	mg/L
AW-14	Compliance	E001	06/13/2023	Mercury, total	0.00014 U	mg/L
AW-14	Compliance	E001	06/13/2023	Molybdenum, total	0.00390	mg/L
AW-14	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-152	mV
AW-14	Compliance	E001	06/13/2023	pH (field)	6.9	SU
AW-14	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	3.46 J+	pCi/L
AW-14	Compliance	E001	06/13/2023	Selenium, total	0.00074 U	mg/L
AW-14	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,875	micromhos/cm
AW-14	Compliance	E001	06/13/2023	Sulfate, total	2.90	mg/L
AW-14	Compliance	E001	06/13/2023	Temperature	18.0	degrees C
AW-14	Compliance	E001	06/13/2023	Thallium, total	0.00038 U	mg/L
AW-14	Compliance	E001	06/13/2023	Total Dissolved Solids	1,000	mg/L
AW-14	Compliance	E001	06/13/2023	Turbidity, field	10.4	NTU
AW-15	Compliance	E001	06/12/2023	Antimony, total	0.00043 U	mg/L
AW-15	Compliance	E001	06/12/2023	Arsenic, total	0.00200	mg/L
AW-15	Compliance	E001	06/12/2023	Barium, total	1.90	mg/L
AW-15	Compliance	E001	06/12/2023	Beryllium, total	0.00059 U	mg/L
AW-15	Compliance	E001	06/12/2023	Boron, total	0.360	mg/L
AW-15	Compliance	E001	06/12/2023	Cadmium, total	0.00074 U	mg/L
AW-15	Compliance	E001	06/12/2023	Calcium, total	140	mg/L
AW-15	Compliance	E001	06/12/2023	Chloride, total	35.0	mg/L
AW-15	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
AW-15	Compliance	E001	06/12/2023	Cobalt, total	0.0016 J	mg/L
AW-15	Compliance	E001	06/12/2023	Dissolved Oxygen	0.270	mg/L
AW-15	Compliance	E001	06/12/2023	Fluoride, total	0.04 U	mg/L
AW-15	Compliance	E001	06/12/2023	Lead, total	0.00022 U	mg/L
AW-15	Compliance	E001	06/12/2023	Lithium, total	0.0300	mg/L
AW-15	Compliance	E001	06/12/2023	Mercury, total	0.00014 U	mg/L
AW-15	Compliance	E001	06/12/2023	Molybdenum, total	0.00074 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-15	Compliance	E001	06/12/2023	Oxidation Reduction Potential	-101	mV
AW-15	Compliance	E001	06/12/2023	pH (field)	6.6	SU
AW-15	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	3.80 J+	pCi/L
AW-15	Compliance	E001	06/12/2023	Selenium, total	0.00074 U	mg/L
AW-15	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	1,970	micromhos/cm
AW-15	Compliance	E001	06/12/2023	Sulfate, total	0.18 U	mg/L
AW-15	Compliance	E001	06/12/2023	Temperature	17.4	degrees C
AW-15	Compliance	E001	06/12/2023	Thallium, total	0.00038 U	mg/L
AW-15	Compliance	E001	06/12/2023	Total Dissolved Solids	1,400	mg/L
AW-15	Compliance	E001	06/12/2023	Turbidity, field	46.5	NTU
AW-15S	Compliance	E001	06/12/2023	Antimony, total	0.00043 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Arsenic, total	0.00069 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Barium, total	0.0750	mg/L
AW-15S	Compliance	E001	06/12/2023	Beryllium, total	0.00059 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Boron, total	6.70	mg/L
AW-15S	Compliance	E001	06/12/2023	Cadmium, total	0.00074 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Calcium, total	280	mg/L
AW-15S	Compliance	E001	06/12/2023	Chloride, total	31.0	mg/L
AW-15S	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Cobalt, total	0.00049 J	mg/L
AW-15S	Compliance	E001	06/12/2023	Dissolved Oxygen	6.00	mg/L
AW-15S	Compliance	E001	06/12/2023	Fluoride, total	0.04 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Lead, total	0.00022 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Lithium, total	0.013 J	mg/L
AW-15S	Compliance	E001	06/12/2023	Mercury, total	0.00014 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Molybdenum, total	0.00300	mg/L
AW-15S	Compliance	E001	06/12/2023	Oxidation Reduction Potential	38.0	mV
AW-15S	Compliance	E001	06/12/2023	pH (field)	6.7	SU
AW-15S	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	0.203	pCi/L
AW-15S	Compliance	E001	06/12/2023	Selenium, total	0.00180	mg/L
AW-15S	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	1,840	micromhos/cm
AW-15S	Compliance	E001	06/12/2023	Sulfate, total	590	mg/L
AW-15S	Compliance	E001	06/12/2023	Temperature	15.8	degrees C
AW-15S	Compliance	E001	06/12/2023	Thallium, total	0.00038 U	mg/L
AW-15S	Compliance	E001	06/12/2023	Total Dissolved Solids	990	mg/L
AW-15S	Compliance	E001	06/12/2023	Turbidity, field	29.1	NTU
AW-16	Compliance	E001	06/12/2023	Antimony, total	0.00043 U	mg/L
AW-16	Compliance	E001	06/12/2023	Arsenic, total	0.00170	mg/L
AW-16	Compliance	E001	06/12/2023	Barium, total	1.30	mg/L
AW-16	Compliance	E001	06/12/2023	Beryllium, total	0.00059 U	mg/L
AW-16	Compliance	E001	06/12/2023	Boron, total	0.450	mg/L
AW-16	Compliance	E001	06/12/2023	Cadmium, total	0.00074 U	mg/L
AW-16	Compliance	E001	06/12/2023	Calcium, total	150	mg/L
AW-16	Compliance	E001	06/12/2023	Chloride, total	50.0	mg/L
AW-16	Compliance	E001	06/12/2023	Chromium, total	0.0028 U	mg/L
AW-16	Compliance	E001	06/12/2023	Cobalt, total	0.0016 J	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-16	Compliance	E001	06/12/2023	Dissolved Oxygen	0.510	mg/L
AW-16	Compliance	E001	06/12/2023	Fluoride, total	0.04 U	mg/L
AW-16	Compliance	E001	06/12/2023	Lead, total	0.00022 U	mg/L
AW-16	Compliance	E001	06/12/2023	Lithium, total	0.0310	mg/L
AW-16	Compliance	E001	06/12/2023	Mercury, total	0.00014 U	mg/L
AW-16	Compliance	E001	06/12/2023	Molybdenum, total	0.00074 U	mg/L
AW-16	Compliance	E001	06/12/2023	Oxidation Reduction Potential	-101	mV
AW-16	Compliance	E001	06/12/2023	pH (field)	6.5	SU
AW-16	Compliance	E001	06/12/2023	Radium 226 + Radium 228, total	3.74 J+	pCi/L
AW-16	Compliance	E001	06/12/2023	Selenium, total	0.00074 U	mg/L
AW-16	Compliance	E001	06/12/2023	Specific Conductance @ 25C (field)	2,110	micromhos/cm
AW-16	Compliance	E001	06/12/2023	Sulfate, total	0.18 U	mg/L
AW-16	Compliance	E001	06/12/2023	Temperature	17.9	degrees C
AW-16	Compliance	E001	06/12/2023	Thallium, total	0.00038 U	mg/L
AW-16	Compliance	E001	06/12/2023	Total Dissolved Solids	1,500	mg/L
AW-16	Compliance	E001	06/12/2023	Turbidity, field	77.4	NTU
AW-17	Compliance	E001	06/13/2023	Antimony, total	0.00043 U	mg/L
AW-17	Compliance	E001	06/13/2023	Arsenic, total	0.00450	mg/L
AW-17	Compliance	E001	06/13/2023	Barium, total	1.10	mg/L
AW-17	Compliance	E001	06/13/2023	Beryllium, total	0.00059 U	mg/L
AW-17	Compliance	E001	06/13/2023	Boron, total	0.400	mg/L
AW-17	Compliance	E001	06/13/2023	Cadmium, total	0.00074 U	mg/L
AW-17	Compliance	E001	06/13/2023	Calcium, total	110	mg/L
AW-17	Compliance	E001	06/13/2023	Chloride, total	53.0	mg/L
AW-17	Compliance	E001	06/13/2023	Chromium, total	0.0028 U	mg/L
AW-17	Compliance	E001	06/13/2023	Cobalt, total	0.00250	mg/L
AW-17	Compliance	E001	06/13/2023	Dissolved Oxygen	0.690	mg/L
AW-17	Compliance	E001	06/13/2023	Fluoride, total	0.04 U	mg/L
AW-17	Compliance	E001	06/13/2023	Lead, total	0.00099 J	mg/L
AW-17	Compliance	E001	06/13/2023	Lithium, total	0.0310	mg/L
AW-17	Compliance	E001	06/13/2023	Mercury, total	0.00014 U	mg/L
AW-17	Compliance	E001	06/13/2023	Molybdenum, total	0.00074 U	mg/L
AW-17	Compliance	E001	06/13/2023	Oxidation Reduction Potential	-111	mV
AW-17	Compliance	E001	06/13/2023	pH (field)	7.0	SU
AW-17	Compliance	E001	06/13/2023	Radium 226 + Radium 228, total	2.97 J+	pCi/L
AW-17	Compliance	E001	06/13/2023	Selenium, total	0.00074 U	mg/L
AW-17	Compliance	E001	06/13/2023	Specific Conductance @ 25C (field)	1,910	micromhos/cm
AW-17	Compliance	E001	06/13/2023	Sulfate, total	0.18 U	mg/L
AW-17	Compliance	E001	06/13/2023	Temperature	17.0	degrees C
AW-17	Compliance	E001	06/13/2023	Thallium, total	0.00038 U	mg/L
AW-17	Compliance	E001	06/13/2023	Total Dissolved Solids	1,100	mg/L
AW-17	Compliance	E001	06/13/2023	Turbidity, field	124	NTU
AW-18	Compliance	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AW-18	Compliance	E001	06/14/2023	Arsenic, total	0.00330	mg/L
AW-18	Compliance	E001	06/14/2023	Barium, total	1.30	mg/L
AW-18	Compliance	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-18	Compliance	E001	06/14/2023	Boron, total	1.30 J+	mg/L
AW-18	Compliance	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-18	Compliance	E001	06/14/2023	Calcium, total	120	mg/L
AW-18	Compliance	E001	06/14/2023	Chloride, total	97.0	mg/L
AW-18	Compliance	E001	06/14/2023	Chromium, total	0.0037 J	mg/L
AW-18	Compliance	E001	06/14/2023	Cobalt, total	0.0013 J	mg/L
AW-18	Compliance	E001	06/14/2023	Dissolved Oxygen	1.70	mg/L
AW-18	Compliance	E001	06/14/2023	Fluoride, total	0.04 U	mg/L
AW-18	Compliance	E001	06/14/2023	Lead, total	0.00110	mg/L
AW-18	Compliance	E001	06/14/2023	Lithium, total	0.0220	mg/L
AW-18	Compliance	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-18	Compliance	E001	06/14/2023	Molybdenum, total	0.00260	mg/L
AW-18	Compliance	E001	06/14/2023	Oxidation Reduction Potential	-105	mV
AW-18	Compliance	E001	06/14/2023	pH (field)	6.7	SU
AW-18	Compliance	E001	06/14/2023	Radium 226 + Radium 228, total	2.92	pCi/L
AW-18	Compliance	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-18	Compliance	E001	06/14/2023	Specific Conductance @ 25C (field)	1,790	micromhos/cm
AW-18	Compliance	E001	06/14/2023	Sulfate, total	7.70	mg/L
AW-18	Compliance	E001	06/14/2023	Temperature	17.5	degrees C
AW-18	Compliance	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-18	Compliance	E001	06/14/2023	Total Dissolved Solids	930 J+	mg/L
AW-18	Compliance	E001	06/14/2023	Turbidity, field	218	NTU
AW-19	Compliance	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AW-19	Compliance	E001	06/14/2023	Arsenic, total	0.0150	mg/L
AW-19	Compliance	E001	06/14/2023	Barium, total	0.200	mg/L
AW-19	Compliance	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-19	Compliance	E001	06/14/2023	Boron, total	2.30	mg/L
AW-19	Compliance	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-19	Compliance	E001	06/14/2023	Calcium, total	120	mg/L
AW-19	Compliance	E001	06/14/2023	Chloride, total	82.0	mg/L
AW-19	Compliance	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-19	Compliance	E001	06/14/2023	Cobalt, total	0.0017 J	mg/L
AW-19	Compliance	E001	06/14/2023	Dissolved Oxygen	2.30	mg/L
AW-19	Compliance	E001	06/14/2023	Fluoride, total	0.266	mg/L
AW-19	Compliance	E001	06/14/2023	Lead, total	0.00170 J	mg/L
AW-19	Compliance	E001	06/14/2023	Lithium, total	0.011 J	mg/L
AW-19	Compliance	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-19	Compliance	E001	06/14/2023	Molybdenum, total	0.00390	mg/L
AW-19	Compliance	E001	06/14/2023	Oxidation Reduction Potential	-52.0	mV
AW-19	Compliance	E001	06/14/2023	pH (field)	6.9	SU
AW-19	Compliance	E001	06/14/2023	Radium 226 + Radium 228, total	0.471 J	pCi/L
AW-19	Compliance	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-19	Compliance	E001	06/14/2023	Specific Conductance @ 25C (field)	1,110	micromhos/cm
AW-19	Compliance	E001	06/14/2023	Sulfate, total	52.0	mg/L
AW-19	Compliance	E001	06/14/2023	Temperature	17.0	degrees C
AW-19	Compliance	E001	06/14/2023	Thallium, total	0.00038 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-19	Compliance	E001	06/14/2023	Total Dissolved Solids	620 J+	mg/L
AW-19	Compliance	E001	06/14/2023	Turbidity, field	27.9	NTU
AW-21	Compliance	E001	06/14/2023	Antimony, total	0.00057 J	mg/L
AW-21	Compliance	E001	06/14/2023	Arsenic, total	0.00180	mg/L
AW-21	Compliance	E001	06/14/2023	Barium, total	0.0590	mg/L
AW-21	Compliance	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-21	Compliance	E001	06/14/2023	Boron, total	8.70	mg/L
AW-21	Compliance	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-21	Compliance	E001	06/14/2023	Calcium, total	110	mg/L
AW-21	Compliance	E001	06/14/2023	Chloride, total	97.0	mg/L
AW-21	Compliance	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-21	Compliance	E001	06/14/2023	Cobalt, total	0.00063 J	mg/L
AW-21	Compliance	E001	06/14/2023	Dissolved Oxygen	2.70	mg/L
AW-21	Compliance	E001	06/14/2023	Fluoride, total	0.312	mg/L
AW-21	Compliance	E001	06/14/2023	Lead, total	0.00022 U	mg/L
AW-21	Compliance	E001	06/14/2023	Lithium, total	0.005 U	mg/L
AW-21	Compliance	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-21	Compliance	E001	06/14/2023	Molybdenum, total	0.0170	mg/L
AW-21	Compliance	E001	06/14/2023	Oxidation Reduction Potential	-28.0	mV
AW-21	Compliance	E001	06/14/2023	pH (field)	7.1	SU
AW-21	Compliance	E001	06/14/2023	Radium 226 + Radium 228, total	0.326	pCi/L
AW-21	Compliance	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-21	Compliance	E001	06/14/2023	Specific Conductance @ 25C (field)	983	micromhos/cm
AW-21	Compliance	E001	06/14/2023	Sulfate, total	240	mg/L
AW-21	Compliance	E001	06/14/2023	Temperature	17.4	degrees C
AW-21	Compliance	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-21	Compliance	E001	06/14/2023	Total Dissolved Solids	680 J+	mg/L
AW-21	Compliance	E001	06/14/2023	Turbidity, field	6.40	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, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AP05S	Background	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
AP05S	Background	E002	08/23/2023	Arsenic, total	0.00100	mg/L
AP05S	Background	E002	08/23/2023	Barium, total	0.830	mg/L
AP05S	Background	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
AP05S	Background	E002	08/23/2023	Boron, total	0.320 J+	mg/L
AP05S	Background	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
AP05S	Background	E002	08/23/2023	Calcium, total	100	mg/L
AP05S	Background	E002	08/23/2023	Chloride, total	41.0	mg/L
AP05S	Background	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
AP05S	Background	E002	08/23/2023	Cobalt, total	0.0011 J	mg/L
AP05S	Background	E002	08/23/2023	Dissolved Oxygen	1.30	mg/L
AP05S	Background	E002	08/23/2023	Fluoride, total	0.095 J	mg/L
AP05S	Background	E002	08/23/2023	Lead, total	0.00035 J	mg/L
AP05S	Background	E002	08/23/2023	Lithium, total	0.0270	mg/L
AP05S	Background	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
AP05S	Background	E002	08/23/2023	Molybdenum, total	0.00074 U	mg/L
AP05S	Background	E002	08/23/2023	Oxidation Reduction Potential	-133	mV
AP05S	Background	E002	08/23/2023	pH (field)	6.9	SU
AP05S	Background	E002	08/23/2023	Radium 226 + Radium 228, total	1.40	pCi/L
AP05S	Background	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
AP05S	Background	E002	08/23/2023	Specific Conductance @ 25C (field)	1,490	micromhos/cm
AP05S	Background	E002	08/23/2023	Sulfate, total	5.60	mg/L
AP05S	Background	E002	08/23/2023	Temperature	26.7	degrees C
AP05S	Background	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
AP05S	Background	E002	08/23/2023	Total Dissolved Solids	890 J	mg/L
AP05S	Background	E002	08/23/2023	Turbidity, field	39.7	NTU
AW-08	Background	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AW-08	Background	E002	08/28/2023	Arsenic, total	0.00980	mg/L
AW-08	Background	E002	08/28/2023	Barium, total	0.190	mg/L
AW-08	Background	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AW-08	Background	E002	08/28/2023	Boron, total	0.120 J+	mg/L
AW-08	Background	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
AW-08	Background	E002	08/28/2023	Calcium, total	140	mg/L
AW-08	Background	E002	08/28/2023	Chloride, total	15.0	mg/L
AW-08	Background	E002	08/28/2023	Chromium, total	0.0028 U	mg/L
AW-08	Background	E002	08/28/2023	Cobalt, total	0.00048 U	mg/L
AW-08	Background	E002	08/28/2023	Dissolved Oxygen	12.0	mg/L
AW-08	Background	E002	08/28/2023	Fluoride, total	0.195 J	mg/L
AW-08	Background	E002	08/28/2023	Lead, total	0.00022 U	mg/L
AW-08	Background	E002	08/28/2023	Lithium, total	0.013 J	mg/L
AW-08	Background	E002	08/28/2023	Mercury, total	0.00014 U	mg/L
AW-08	Background	E002	08/28/2023	Molybdenum, total	0.00180 J+	mg/L
AW-08	Background	E002	08/28/2023	Oxidation Reduction Potential	-120	mV
AW-08	Background	E002	08/28/2023	pH (field)	6.9	SU
AW-08	Background	E002	08/28/2023	Radium 226 + Radium 228, total	0.434	pCi/L
AW-08	Background	E002	08/28/2023	Selenium, total	0.00074 U	mg/L

TABLE 1.
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-08	Background	E002	08/28/2023	Specific Conductance @ 25C (field)	473	micromhos/cm
AW-08	Background	E002	08/28/2023	Sulfate, total	0.18 U	mg/L
AW-08	Background	E002	08/28/2023	Temperature	19.9	degrees C
AW-08	Background	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AW-08	Background	E002	08/28/2023	Total Dissolved Solids	720	mg/L
AW-08	Background	E002	08/28/2023	Turbidity, field	116	NTU
AP07S	Compliance	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AP07S	Compliance	E002	08/28/2023	Arsenic, total	0.00069 U	mg/L
AP07S	Compliance	E002	08/28/2023	Barium, total	0.0730	mg/L
AP07S	Compliance	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AP07S	Compliance	E002	08/28/2023	Boron, total	9.40	mg/L
AP07S	Compliance	E002	08/28/2023	Cadmium, total	0.00130	mg/L
AP07S	Compliance	E002	08/28/2023	Calcium, total	160	mg/L
AP07S	Compliance	E002	08/28/2023	Chloride, total	83.0	mg/L
AP07S	Compliance	E002	08/28/2023	Chromium, total	0.0028 U	mg/L
AP07S	Compliance	E002	08/28/2023	Cobalt, total	0.00290	mg/L
AP07S	Compliance	E002	08/28/2023	Dissolved Oxygen	9.80	mg/L
AP07S	Compliance	E002	08/28/2023	Fluoride, total	0.215 J	mg/L
AP07S	Compliance	E002	08/28/2023	Lead, total	0.0009 J	mg/L
AP07S	Compliance	E002	08/28/2023	Lithium, total	0.0061 J	mg/L
AP07S	Compliance	E002	08/28/2023	Mercury, total	0.00014 U	mg/L
AP07S	Compliance	E002	08/28/2023	Molybdenum, total	0.00110 J+	mg/L
AP07S	Compliance	E002	08/28/2023	Oxidation Reduction Potential	44.0	mV
AP07S	Compliance	E002	08/28/2023	pH (field)	7.0	SU
AP07S	Compliance	E002	08/28/2023	Radium 226 + Radium 228, total	1.26	pCi/L
AP07S	Compliance	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
AP07S	Compliance	E002	08/28/2023	Specific Conductance @ 25C (field)	1,420	micromhos/cm
AP07S	Compliance	E002	08/28/2023	Sulfate, total	240	mg/L
AP07S	Compliance	E002	08/28/2023	Temperature	20.6	degrees C
AP07S	Compliance	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AP07S	Compliance	E002	08/28/2023	Total Dissolved Solids	880	mg/L
AP07S	Compliance	E002	08/28/2023	Turbidity, field	101	NTU
AW-01	Compliance	E002	08/22/2023	Antimony, total	0.00043 U	mg/L
AW-01	Compliance	E002	08/22/2023	Arsenic, total	0.00510	mg/L
AW-01	Compliance	E002	08/22/2023	Barium, total	0.130	mg/L
AW-01	Compliance	E002	08/22/2023	Beryllium, total	0.00059 U	mg/L
AW-01	Compliance	E002	08/22/2023	Boron, total	0.0920 J+	mg/L
AW-01	Compliance	E002	08/22/2023	Cadmium, total	0.00074 U	mg/L
AW-01	Compliance	E002	08/22/2023	Calcium, total	190	mg/L
AW-01	Compliance	E002	08/22/2023	Chloride, total	12.0	mg/L
AW-01	Compliance	E002	08/22/2023	Chromium, total	0.0028 U	mg/L
AW-01	Compliance	E002	08/22/2023	Cobalt, total	0.00380	mg/L
AW-01	Compliance	E002	08/22/2023	Dissolved Oxygen	0.510	mg/L
AW-01	Compliance	E002	08/22/2023	Fluoride, total	0.280	mg/L
AW-01	Compliance	E002	08/22/2023	Lead, total	0.00022 U	mg/L
AW-01	Compliance	E002	08/22/2023	Lithium, total	0.006 J	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-01	Compliance	E002	08/22/2023	Mercury, total	0.00014 J	mg/L
AW-01	Compliance	E002	08/22/2023	Molybdenum, total	0.00410	mg/L
AW-01	Compliance	E002	08/22/2023	Oxidation Reduction Potential	-95.0	mV
AW-01	Compliance	E002	08/22/2023	pH (field)	6.6	SU
AW-01	Compliance	E002	08/22/2023	Radium 226 + Radium 228, total	1.13 J	pCi/L
AW-01	Compliance	E002	08/22/2023	Selenium, total	0.00074 U	mg/L
AW-01	Compliance	E002	08/22/2023	Specific Conductance @ 25C (field)	1,450	micromhos/cm
AW-01	Compliance	E002	08/22/2023	Sulfate, total	52.0	mg/L
AW-01	Compliance	E002	08/22/2023	Temperature	24.7	degrees C
AW-01	Compliance	E002	08/22/2023	Thallium, total	0.00038 U	mg/L
AW-01	Compliance	E002	08/22/2023	Total Dissolved Solids	830	mg/L
AW-01	Compliance	E002	08/22/2023	Turbidity, field	8.50	NTU
AW-05	Compliance	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AW-05	Compliance	E002	08/28/2023	Arsenic, total	0.00330	mg/L
AW-05	Compliance	E002	08/28/2023	Barium, total	0.130	mg/L
AW-05	Compliance	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AW-05	Compliance	E002	08/28/2023	Boron, total	8.60	mg/L
AW-05	Compliance	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
AW-05	Compliance	E002	08/28/2023	Calcium, total	180	mg/L
AW-05	Compliance	E002	08/28/2023	Chloride, total	78.0	mg/L
AW-05	Compliance	E002	08/28/2023	Chromium, total	0.00730	mg/L
AW-05	Compliance	E002	08/28/2023	Cobalt, total	0.00530	mg/L
AW-05	Compliance	E002	08/28/2023	Dissolved Oxygen	0.490	mg/L
AW-05	Compliance	E002	08/28/2023	Fluoride, total	0.166 J	mg/L
AW-05	Compliance	E002	08/28/2023	Lead, total	0.00370	mg/L
AW-05	Compliance	E002	08/28/2023	Lithium, total	0.017 J	mg/L
AW-05	Compliance	E002	08/28/2023	Mercury, total	0.000440	mg/L
AW-05	Compliance	E002	08/28/2023	Molybdenum, total	0.00250 J+	mg/L
AW-05	Compliance	E002	08/28/2023	Oxidation Reduction Potential	26.0	mV
AW-05	Compliance	E002	08/28/2023	pH (field)	7.0	SU
AW-05	Compliance	E002	08/28/2023	Radium 226 + Radium 228, total	0.0965	pCi/L
AW-05	Compliance	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
AW-05	Compliance	E002	08/28/2023	Specific Conductance @ 25C (field)	1,730	micromhos/cm
AW-05	Compliance	E002	08/28/2023	Sulfate, total	460	mg/L
AW-05	Compliance	E002	08/28/2023	Temperature	21.4	degrees C
AW-05	Compliance	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AW-05	Compliance	E002	08/28/2023	Total Dissolved Solids	1,200	mg/L
AW-05	Compliance	E002	08/28/2023	Turbidity, field	697	NTU
AW-06	Compliance	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AW-06	Compliance	E002	08/28/2023	Arsenic, total	0.00520	mg/L
AW-06	Compliance	E002	08/28/2023	Barium, total	0.190	mg/L
AW-06	Compliance	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AW-06	Compliance	E002	08/28/2023	Boron, total	0.130 J+	mg/L
AW-06	Compliance	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
AW-06	Compliance	E002	08/28/2023	Calcium, total	120	mg/L
AW-06	Compliance	E002	08/28/2023	Chloride, total	33.0	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-06	Compliance	E002	08/28/2023	Chromium, total	0.0028 U	mg/L
AW-06	Compliance	E002	08/28/2023	Cobalt, total	0.00098 J	mg/L
AW-06	Compliance	E002	08/28/2023	Dissolved Oxygen	2.00	mg/L
AW-06	Compliance	E002	08/28/2023	Fluoride, total	0.284	mg/L
AW-06	Compliance	E002	08/28/2023	Lead, total	0.00074 J	mg/L
AW-06	Compliance	E002	08/28/2023	Lithium, total	0.013 J	mg/L
AW-06	Compliance	E002	08/28/2023	Mercury, total	0.00015 J	mg/L
AW-06	Compliance	E002	08/28/2023	Molybdenum, total	0.00600 J+	mg/L
AW-06	Compliance	E002	08/28/2023	Oxidation Reduction Potential	-85.0	mV
AW-06	Compliance	E002	08/28/2023	pH (field)	7.0	SU
AW-06	Compliance	E002	08/28/2023	Radium 226 + Radium 228, total	0.107	pCi/L
AW-06	Compliance	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
AW-06	Compliance	E002	08/28/2023	Specific Conductance @ 25C (field)	1,110	micromhos/cm
AW-06	Compliance	E002	08/28/2023	Sulfate, total	27.0	mg/L
AW-06	Compliance	E002	08/28/2023	Temperature	23.3	degrees C
AW-06	Compliance	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AW-06	Compliance	E002	08/28/2023	Total Dissolved Solids	560	mg/L
AW-06	Compliance	E002	08/28/2023	Turbidity, field	36.3	NTU
AW-09	Compliance	E002	08/29/2023	Antimony, total	0.00043 U	mg/L
AW-09	Compliance	E002	08/29/2023	Arsenic, total	0.0170	mg/L
AW-09	Compliance	E002	08/29/2023	Barium, total	0.390	mg/L
AW-09	Compliance	E002	08/29/2023	Beryllium, total	0.00059 U	mg/L
AW-09	Compliance	E002	08/29/2023	Boron, total	0.310	mg/L
AW-09	Compliance	E002	08/29/2023	Cadmium, total	0.00074 U	mg/L
AW-09	Compliance	E002	08/29/2023	Calcium, total	120	mg/L
AW-09	Compliance	E002	08/29/2023	Chloride, total	28.0	mg/L
AW-09	Compliance	E002	08/29/2023	Chromium, total	0.0028 U	mg/L
AW-09	Compliance	E002	08/29/2023	Cobalt, total	0.00300	mg/L
AW-09	Compliance	E002	08/29/2023	Dissolved Oxygen	4.50	mg/L
AW-09	Compliance	E002	08/29/2023	Fluoride, total	0.145 J	mg/L
AW-09	Compliance	E002	08/29/2023	Lead, total	0.00130	mg/L
AW-09	Compliance	E002	08/29/2023	Lithium, total	0.019 J	mg/L
AW-09	Compliance	E002	08/29/2023	Mercury, total	0.00014 U	mg/L
AW-09	Compliance	E002	08/29/2023	Molybdenum, total	0.0210	mg/L
AW-09	Compliance	E002	08/29/2023	Oxidation Reduction Potential	-94.0	mV
AW-09	Compliance	E002	08/29/2023	pH (field)	7.1	SU
AW-09	Compliance	E002	08/29/2023	Radium 226 + Radium 228, total	1.52 J+	pCi/L
AW-09	Compliance	E002	08/29/2023	Selenium, total	0.00074 U	mg/L
AW-09	Compliance	E002	08/29/2023	Specific Conductance @ 25C (field)	1,500	micromhos/cm
AW-09	Compliance	E002	08/29/2023	Sulfate, total	0.22 J	mg/L
AW-09	Compliance	E002	08/29/2023	Temperature	18.2	degrees C
AW-09	Compliance	E002	08/29/2023	Thallium, total	0.00038 U	mg/L
AW-09	Compliance	E002	08/29/2023	Total Dissolved Solids	840	mg/L
AW-09	Compliance	E002	08/29/2023	Turbidity, field	177	NTU
AW-10	Compliance	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AW-10	Compliance	E002	08/28/2023	Arsenic, total	0.0130	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-10	Compliance	E002	08/28/2023	Barium, total	1.10	mg/L
AW-10	Compliance	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AW-10	Compliance	E002	08/28/2023	Boron, total	0.500	mg/L
AW-10	Compliance	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
AW-10	Compliance	E002	08/28/2023	Calcium, total	140	mg/L
AW-10	Compliance	E002	08/28/2023	Chloride, total	86.0	mg/L
AW-10	Compliance	E002	08/28/2023	Chromium, total	0.0100	mg/L
AW-10	Compliance	E002	08/28/2023	Cobalt, total	0.00770	mg/L
AW-10	Compliance	E002	08/28/2023	Dissolved Oxygen	0	mg/L
AW-10	Compliance	E002	08/28/2023	Fluoride, total	0.182 J	mg/L
AW-10	Compliance	E002	08/28/2023	Lead, total	0.00800	mg/L
AW-10	Compliance	E002	08/28/2023	Lithium, total	0.0480	mg/L
AW-10	Compliance	E002	08/28/2023	Mercury, total	0.00014 U	mg/L
AW-10	Compliance	E002	08/28/2023	Molybdenum, total	0.00110 J+	mg/L
AW-10	Compliance	E002	08/28/2023	Oxidation Reduction Potential	-111	mV
AW-10	Compliance	E002	08/28/2023	pH (field)	6.4	SU
AW-10	Compliance	E002	08/28/2023	Radium 226 + Radium 228, total	4.03	pCi/L
AW-10	Compliance	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
AW-10	Compliance	E002	08/28/2023	Specific Conductance @ 25C (field)	2,370	micromhos/cm
AW-10	Compliance	E002	08/28/2023	Sulfate, total	0.18 U	mg/L
AW-10	Compliance	E002	08/28/2023	Temperature	20.3	degrees C
AW-10	Compliance	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AW-10	Compliance	E002	08/28/2023	Total Dissolved Solids	1,300	mg/L
AW-10	Compliance	E002	08/28/2023	Turbidity, field	0 U	NTU
AW-11	Compliance	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
AW-11	Compliance	E002	08/28/2023	Arsenic, total	0.0110	mg/L
AW-11	Compliance	E002	08/28/2023	Barium, total	0.870	mg/L
AW-11	Compliance	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
AW-11	Compliance	E002	08/28/2023	Boron, total	0.240 J+	mg/L
AW-11	Compliance	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
AW-11	Compliance	E002	08/28/2023	Calcium, total	170	mg/L
AW-11	Compliance	E002	08/28/2023	Chloride, total	32.0	mg/L
AW-11	Compliance	E002	08/28/2023	Chromium, total	0.0028 U	mg/L
AW-11	Compliance	E002	08/28/2023	Cobalt, total	0.0019 J	mg/L
AW-11	Compliance	E002	08/28/2023	Dissolved Oxygen	0.240	mg/L
AW-11	Compliance	E002	08/28/2023	Fluoride, total	0.153 J	mg/L
AW-11	Compliance	E002	08/28/2023	Lead, total	0.00086 J	mg/L
AW-11	Compliance	E002	08/28/2023	Lithium, total	0.0210	mg/L
AW-11	Compliance	E002	08/28/2023	Mercury, total	0.00014 U	mg/L
AW-11	Compliance	E002	08/28/2023	Molybdenum, total	0.00170 J+	mg/L
AW-11	Compliance	E002	08/28/2023	Oxidation Reduction Potential	-96.0	mV
AW-11	Compliance	E002	08/28/2023	pH (field)	6.3	SU
AW-11	Compliance	E002	08/28/2023	Radium 226 + Radium 228, total	2.45	pCi/L
AW-11	Compliance	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
AW-11	Compliance	E002	08/28/2023	Specific Conductance @ 25C (field)	1,990	micromhos/cm
AW-11	Compliance	E002	08/28/2023	Sulfate, total	0.18 U	mg/L

TABLE 1.
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-11	Compliance	E002	08/28/2023	Temperature	16.8	degrees C
AW-11	Compliance	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
AW-11	Compliance	E002	08/28/2023	Total Dissolved Solids	1,000	mg/L
AW-11	Compliance	E002	08/28/2023	Turbidity, field	100	NTU
AW-14	Compliance	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
AW-14	Compliance	E002	08/23/2023	Arsenic, total	0.00520	mg/L
AW-14	Compliance	E002	08/23/2023	Barium, total	0.840	mg/L
AW-14	Compliance	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
AW-14	Compliance	E002	08/23/2023	Boron, total	0.180 J+	mg/L
AW-14	Compliance	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
AW-14	Compliance	E002	08/23/2023	Calcium, total	170	mg/L
AW-14	Compliance	E002	08/23/2023	Chloride, total	24.0	mg/L
AW-14	Compliance	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
AW-14	Compliance	E002	08/23/2023	Cobalt, total	0.0019 J	mg/L
AW-14	Compliance	E002	08/23/2023	Dissolved Oxygen	1.10	mg/L
AW-14	Compliance	E002	08/23/2023	Fluoride, total	0.116 J	mg/L
AW-14	Compliance	E002	08/23/2023	Lead, total	0.00022 U	mg/L
AW-14	Compliance	E002	08/23/2023	Lithium, total	0.016 J	mg/L
AW-14	Compliance	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
AW-14	Compliance	E002	08/23/2023	Molybdenum, total	0.00140	mg/L
AW-14	Compliance	E002	08/23/2023	Oxidation Reduction Potential	-132	mV
AW-14	Compliance	E002	08/23/2023	pH (field)	7.0	SU
AW-14	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	3.53	pCi/L
AW-14	Compliance	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
AW-14	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	1,720	micromhos/cm
AW-14	Compliance	E002	08/23/2023	Sulfate, total	1.80 J+	mg/L
AW-14	Compliance	E002	08/23/2023	Temperature	23.2	degrees C
AW-14	Compliance	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
AW-14	Compliance	E002	08/23/2023	Total Dissolved Solids	960	mg/L
AW-14	Compliance	E002	08/23/2023	Turbidity, field	0 U	NTU
AW-15	Compliance	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
AW-15	Compliance	E002	08/23/2023	Arsenic, total	0.00130	mg/L
AW-15	Compliance	E002	08/23/2023	Barium, total	1.80	mg/L
AW-15	Compliance	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
AW-15	Compliance	E002	08/23/2023	Boron, total	0.370	mg/L
AW-15	Compliance	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
AW-15	Compliance	E002	08/23/2023	Calcium, total	140	mg/L
AW-15	Compliance	E002	08/23/2023	Chloride, total	34.0	mg/L
AW-15	Compliance	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
AW-15	Compliance	E002	08/23/2023	Cobalt, total	0.0016 J	mg/L
AW-15	Compliance	E002	08/23/2023	Dissolved Oxygen	0.450	mg/L
AW-15	Compliance	E002	08/23/2023	Fluoride, total	0.082 J	mg/L
AW-15	Compliance	E002	08/23/2023	Lead, total	0.00022 U	mg/L
AW-15	Compliance	E002	08/23/2023	Lithium, total	0.0280	mg/L
AW-15	Compliance	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
AW-15	Compliance	E002	08/23/2023	Molybdenum, total	0.00074 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-15	Compliance	E002	08/23/2023	Oxidation Reduction Potential	-140	mV
AW-15	Compliance	E002	08/23/2023	pH (field)	6.8	SU
AW-15	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	6.12	pCi/L
AW-15	Compliance	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
AW-15	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	2,050	micromhos/cm
AW-15	Compliance	E002	08/23/2023	Sulfate, total	0.18 U	mg/L
AW-15	Compliance	E002	08/23/2023	Temperature	19.5	degrees C
AW-15	Compliance	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
AW-15	Compliance	E002	08/23/2023	Total Dissolved Solids	1,100	mg/L
AW-15	Compliance	E002	08/23/2023	Turbidity, field	0 U	NTU
AW-15S	Compliance	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Arsenic, total	0.00069 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Barium, total	0.0870	mg/L
AW-15S	Compliance	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Boron, total	5.70	mg/L
AW-15S	Compliance	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Calcium, total	270	mg/L
AW-15S	Compliance	E002	08/23/2023	Chloride, total	31.0	mg/L
AW-15S	Compliance	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Cobalt, total	0.00059 J	mg/L
AW-15S	Compliance	E002	08/23/2023	Dissolved Oxygen	0.350	mg/L
AW-15S	Compliance	E002	08/23/2023	Fluoride, total	0.284	mg/L
AW-15S	Compliance	E002	08/23/2023	Lead, total	0.00022 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Lithium, total	0.014 J	mg/L
AW-15S	Compliance	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Molybdenum, total	0.00270	mg/L
AW-15S	Compliance	E002	08/23/2023	Oxidation Reduction Potential	-29.0	mV
AW-15S	Compliance	E002	08/23/2023	pH (field)	6.9	SU
AW-15S	Compliance	E002	08/23/2023	Radium 226 + Radium 228, total	1.02	pCi/L
AW-15S	Compliance	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Specific Conductance @ 25C (field)	1,730	micromhos/cm
AW-15S	Compliance	E002	08/23/2023	Sulfate, total	570	mg/L
AW-15S	Compliance	E002	08/23/2023	Temperature	25.1	degrees C
AW-15S	Compliance	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
AW-15S	Compliance	E002	08/23/2023	Total Dissolved Solids	1,400	mg/L
AW-15S	Compliance	E002	08/23/2023	Turbidity, field	0 U	NTU
AW-16	Compliance	E002	08/21/2023	Antimony, total	0.00043 U	mg/L
AW-16	Compliance	E002	08/21/2023	Arsenic, total	0.00069 U	mg/L
AW-16	Compliance	E002	08/21/2023	Barium, total	1.10	mg/L
AW-16	Compliance	E002	08/21/2023	Beryllium, total	0.00059 U	mg/L
AW-16	Compliance	E002	08/21/2023	Boron, total	0.440	mg/L
AW-16	Compliance	E002	08/21/2023	Cadmium, total	0.00074 U	mg/L
AW-16	Compliance	E002	08/21/2023	Calcium, total	140	mg/L
AW-16	Compliance	E002	08/21/2023	Chloride, total	51.0	mg/L
AW-16	Compliance	E002	08/21/2023	Chromium, total	0.0028 U	mg/L
AW-16	Compliance	E002	08/21/2023	Cobalt, total	0.0015 J	mg/L

TABLE 1.
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ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-16	Compliance	E002	08/21/2023	Dissolved Oxygen	0.120	mg/L
AW-16	Compliance	E002	08/21/2023	Fluoride, total	0.087 J	mg/L
AW-16	Compliance	E002	08/21/2023	Lead, total	0.00022 U	mg/L
AW-16	Compliance	E002	08/21/2023	Lithium, total	0.0320	mg/L
AW-16	Compliance	E002	08/21/2023	Mercury, total	0.000390 J	mg/L
AW-16	Compliance	E002	08/21/2023	Molybdenum, total	0.00074 U	mg/L
AW-16	Compliance	E002	08/21/2023	Oxidation Reduction Potential	-120	mV
AW-16	Compliance	E002	08/21/2023	pH (field)	7.0	SU
AW-16	Compliance	E002	08/21/2023	Radium 226 + Radium 228, total	3.95 J+	pCi/L
AW-16	Compliance	E002	08/21/2023	Selenium, total	0.00074 U	mg/L
AW-16	Compliance	E002	08/21/2023	Specific Conductance @ 25C (field)	1,970	micromhos/cm
AW-16	Compliance	E002	08/21/2023	Sulfate, total	0.61 J	mg/L
AW-16	Compliance	E002	08/21/2023	Temperature	20.8	degrees C
AW-16	Compliance	E002	08/21/2023	Thallium, total	0.00038 U	mg/L
AW-16	Compliance	E002	08/21/2023	Total Dissolved Solids	1,200	mg/L
AW-16	Compliance	E002	08/21/2023	Turbidity, field	9.70	NTU
AW-17	Compliance	E002	08/21/2023	Antimony, total	0.00043 U	mg/L
AW-17	Compliance	E002	08/21/2023	Arsenic, total	0.00320	mg/L
AW-17	Compliance	E002	08/21/2023	Barium, total	1.00	mg/L
AW-17	Compliance	E002	08/21/2023	Beryllium, total	0.00059 U	mg/L
AW-17	Compliance	E002	08/21/2023	Boron, total	0.410	mg/L
AW-17	Compliance	E002	08/21/2023	Cadmium, total	0.00074 U	mg/L
AW-17	Compliance	E002	08/21/2023	Calcium, total	110	mg/L
AW-17	Compliance	E002	08/21/2023	Chloride, total	54.0	mg/L
AW-17	Compliance	E002	08/21/2023	Chromium, total	0.0028 U	mg/L
AW-17	Compliance	E002	08/21/2023	Cobalt, total	0.00220	mg/L
AW-17	Compliance	E002	08/21/2023	Dissolved Oxygen	1.30	mg/L
AW-17	Compliance	E002	08/21/2023	Fluoride, total	0.074 J	mg/L
AW-17	Compliance	E002	08/21/2023	Lead, total	0.00077 J	mg/L
AW-17	Compliance	E002	08/21/2023	Lithium, total	0.0340	mg/L
AW-17	Compliance	E002	08/21/2023	Mercury, total	0.000410	mg/L
AW-17	Compliance	E002	08/21/2023	Molybdenum, total	0.00074 J	mg/L
AW-17	Compliance	E002	08/21/2023	Oxidation Reduction Potential	-106	mV
AW-17	Compliance	E002	08/21/2023	pH (field)	7.0	SU
AW-17	Compliance	E002	08/21/2023	Radium 226 + Radium 228, total	2.64 J+	pCi/L
AW-17	Compliance	E002	08/21/2023	Selenium, total	0.00074 U	mg/L
AW-17	Compliance	E002	08/21/2023	Specific Conductance @ 25C (field)	1,620	micromhos/cm
AW-17	Compliance	E002	08/21/2023	Sulfate, total	0.22 J	mg/L
AW-17	Compliance	E002	08/21/2023	Temperature	25.1	degrees C
AW-17	Compliance	E002	08/21/2023	Thallium, total	0.00038 U	mg/L
AW-17	Compliance	E002	08/21/2023	Total Dissolved Solids	930	mg/L
AW-17	Compliance	E002	08/21/2023	Turbidity, field	140	NTU
AW-18	Compliance	E002	08/22/2023	Antimony, total	0.00043 U	mg/L
AW-18	Compliance	E002	08/22/2023	Arsenic, total	0.00260	mg/L
AW-18	Compliance	E002	08/22/2023	Barium, total	1.30	mg/L
AW-18	Compliance	E002	08/22/2023	Beryllium, total	0.00059 U	mg/L

TABLE 1.
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ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-18	Compliance	E002	08/22/2023	Boron, total	1.20	mg/L
AW-18	Compliance	E002	08/22/2023	Cadmium, total	0.00074 U	mg/L
AW-18	Compliance	E002	08/22/2023	Calcium, total	130	mg/L
AW-18	Compliance	E002	08/22/2023	Chloride, total	91.0	mg/L
AW-18	Compliance	E002	08/22/2023	Chromium, total	0.0028 U	mg/L
AW-18	Compliance	E002	08/22/2023	Cobalt, total	0.00087 J	mg/L
AW-18	Compliance	E002	08/22/2023	Dissolved Oxygen	1.00	mg/L
AW-18	Compliance	E002	08/22/2023	Fluoride, total	0.196 J	mg/L
AW-18	Compliance	E002	08/22/2023	Lead, total	0.00039 J	mg/L
AW-18	Compliance	E002	08/22/2023	Lithium, total	0.0250	mg/L
AW-18	Compliance	E002	08/22/2023	Mercury, total	0.00014 U	mg/L
AW-18	Compliance	E002	08/22/2023	Molybdenum, total	0.00320	mg/L
AW-18	Compliance	E002	08/22/2023	Oxidation Reduction Potential	-119	mV
AW-18	Compliance	E002	08/22/2023	pH (field)	6.6	SU
AW-18	Compliance	E002	08/22/2023	Radium 226 + Radium 228, total	6.06	pCi/L
AW-18	Compliance	E002	08/22/2023	Selenium, total	0.00074 U	mg/L
AW-18	Compliance	E002	08/22/2023	Specific Conductance @ 25C (field)	1,730	micromhos/cm
AW-18	Compliance	E002	08/22/2023	Sulfate, total	6.90	mg/L
AW-18	Compliance	E002	08/22/2023	Temperature	19.0	degrees C
AW-18	Compliance	E002	08/22/2023	Thallium, total	0.00038 U	mg/L
AW-18	Compliance	E002	08/22/2023	Total Dissolved Solids	850	mg/L
AW-18	Compliance	E002	08/22/2023	Turbidity, field	29.3	NTU
AW-19	Compliance	E002	08/22/2023	Antimony, total	0.00043 U	mg/L
AW-19	Compliance	E002	08/22/2023	Arsenic, total	0.0120	mg/L
AW-19	Compliance	E002	08/22/2023	Barium, total	0.200	mg/L
AW-19	Compliance	E002	08/22/2023	Beryllium, total	0.00059 U	mg/L
AW-19	Compliance	E002	08/22/2023	Boron, total	2.90	mg/L
AW-19	Compliance	E002	08/22/2023	Cadmium, total	0.00074 U	mg/L
AW-19	Compliance	E002	08/22/2023	Calcium, total	120	mg/L
AW-19	Compliance	E002	08/22/2023	Chloride, total	79.0	mg/L
AW-19	Compliance	E002	08/22/2023	Chromium, total	0.0028 U	mg/L
AW-19	Compliance	E002	08/22/2023	Cobalt, total	0.0011 J	mg/L
AW-19	Compliance	E002	08/22/2023	Dissolved Oxygen	0.960	mg/L
AW-19	Compliance	E002	08/22/2023	Fluoride, total	0.313	mg/L
AW-19	Compliance	E002	08/22/2023	Lead, total	0.00088 J	mg/L
AW-19	Compliance	E002	08/22/2023	Lithium, total	0.012 J	mg/L
AW-19	Compliance	E002	08/22/2023	Mercury, total	0.00014 U	mg/L
AW-19	Compliance	E002	08/22/2023	Molybdenum, total	0.00360	mg/L
AW-19	Compliance	E002	08/22/2023	Oxidation Reduction Potential	-57.0	mV
AW-19	Compliance	E002	08/22/2023	pH (field)	6.5	SU
AW-19	Compliance	E002	08/22/2023	Radium 226 + Radium 228, total	1.75	pCi/L
AW-19	Compliance	E002	08/22/2023	Selenium, total	0.00074 U	mg/L
AW-19	Compliance	E002	08/22/2023	Specific Conductance @ 25C (field)	1,050	micromhos/cm
AW-19	Compliance	E002	08/22/2023	Sulfate, total	55.0	mg/L
AW-19	Compliance	E002	08/22/2023	Temperature	20.0	degrees C
AW-19	Compliance	E002	08/22/2023	Thallium, total	0.00038 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
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ASH POND
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-19	Compliance	E002	08/22/2023	Total Dissolved Solids	680	mg/L
AW-19	Compliance	E002	08/22/2023	Turbidity, field	24.6	NTU
AW-21	Compliance	E002	08/22/2023	Antimony, total	0.0012 J	mg/L
AW-21	Compliance	E002	08/22/2023	Arsenic, total	0.00069 U	mg/L
AW-21	Compliance	E002	08/22/2023	Barium, total	0.0580	mg/L
AW-21	Compliance	E002	08/22/2023	Beryllium, total	0.00059 U	mg/L
AW-21	Compliance	E002	08/22/2023	Boron, total	12.0	mg/L
AW-21	Compliance	E002	08/22/2023	Cadmium, total	0.00074 U	mg/L
AW-21	Compliance	E002	08/22/2023	Calcium, total	120	mg/L
AW-21	Compliance	E002	08/22/2023	Chloride, total	83.0	mg/L
AW-21	Compliance	E002	08/22/2023	Chromium, total	0.0028 U	mg/L
AW-21	Compliance	E002	08/22/2023	Cobalt, total	0.00056 J	mg/L
AW-21	Compliance	E002	08/22/2023	Dissolved Oxygen	7.70	mg/L
AW-21	Compliance	E002	08/22/2023	Fluoride, total	0.303	mg/L
AW-21	Compliance	E002	08/22/2023	Lead, total	0.00022 U	mg/L
AW-21	Compliance	E002	08/22/2023	Lithium, total	0.0064 J	mg/L
AW-21	Compliance	E002	08/22/2023	Mercury, total	0.00014 U	mg/L
AW-21	Compliance	E002	08/22/2023	Molybdenum, total	0.0290	mg/L
AW-21	Compliance	E002	08/22/2023	Oxidation Reduction Potential	130	mV
AW-21	Compliance	E002	08/22/2023	pH (field)	6.5	SU
AW-21	Compliance	E002	08/22/2023	Radium 226 + Radium 228, total	0.936 J+	pCi/L
AW-21	Compliance	E002	08/22/2023	Selenium, total	0.00380	mg/L
AW-21	Compliance	E002	08/22/2023	Specific Conductance @ 25C (field)	1,050	micromhos/cm
AW-21	Compliance	E002	08/22/2023	Sulfate, total	280	mg/L
AW-21	Compliance	E002	08/22/2023	Temperature	18.6	degrees C
AW-21	Compliance	E002	08/22/2023	Thallium, total	0.00038 U	mg/L
AW-21	Compliance	E002	08/22/2023	Total Dissolved Solids	820	mg/L
AW-21	Compliance	E002	08/22/2023	Turbidity, field	15.0	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 4, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AP05S	Background	E003	11/06/2023	Antimony, total	0.00043 U	mg/L
AP05S	Background	E003	11/06/2023	Arsenic, total	0.00270	mg/L
AP05S	Background	E003	11/06/2023	Barium, total	1.00	mg/L
AP05S	Background	E003	11/06/2023	Beryllium, total	0.00059 U	mg/L
AP05S	Background	E003	11/06/2023	Boron, total	0.330 J+	mg/L
AP05S	Background	E003	11/06/2023	Cadmium, total	0.00074 U	mg/L
AP05S	Background	E003	11/06/2023	Calcium, total	110	mg/L
AP05S	Background	E003	11/06/2023	Chloride, total	46.0	mg/L
AP05S	Background	E003	11/06/2023	Chromium, total	0.00670	mg/L
AP05S	Background	E003	11/06/2023	Cobalt, total	0.00420	mg/L
AP05S	Background	E003	11/06/2023	Dissolved Oxygen	1.50	mg/L
AP05S	Background	E003	11/06/2023	Fluoride, total	0.04 U	mg/L
AP05S	Background	E003	11/06/2023	Lead, total	0.00380 J+	mg/L
AP05S	Background	E003	11/06/2023	Lithium, total	0.0320	mg/L
AP05S	Background	E003	11/06/2023	Mercury, total	0.00018 J	mg/L
AP05S	Background	E003	11/06/2023	Molybdenum, total	0.00082 J	mg/L
AP05S	Background	E003	11/06/2023	Oxidation Reduction Potential	-127	mV
AP05S	Background	E003	11/06/2023	pH (field)	6.8	SU
AP05S	Background	E003	11/06/2023	Radium 226 + Radium 228, total	3.94 J+	pCi/L
AP05S	Background	E003	11/06/2023	Selenium, total	0.00047 J	mg/L
AP05S	Background	E003	11/06/2023	Specific Conductance @ 25C (field)	1,670	micromhos/cm
AP05S	Background	E003	11/06/2023	Sulfate, total	0.18 U	mg/L
AP05S	Background	E003	11/06/2023	Temperature	15.6	degrees C
AP05S	Background	E003	11/06/2023	Thallium, total	0.00038 U	mg/L
AP05S	Background	E003	11/06/2023	Total Dissolved Solids	960	mg/L
AP05S	Background	E003	11/06/2023	Turbidity, field	531	NTU
AW-08	Background	E003	11/06/2023	Antimony, total	0.00087 U	mg/L
AW-08	Background	E003	11/06/2023	Arsenic, total	0.0880	mg/L
AW-08	Background	E003	11/06/2023	Barium, total	5.80	mg/L
AW-08	Background	E003	11/06/2023	Beryllium, total	0.0240	mg/L
AW-08	Background	E003	11/06/2023	Boron, total	0.350 J+	mg/L
AW-08	Background	E003	11/06/2023	Cadmium, total	0.0150	mg/L
AW-08	Background	E003	11/06/2023	Calcium, total	760	mg/L
AW-08	Background	E003	11/06/2023	Chloride, total	20.0	mg/L
AW-08	Background	E003	11/06/2023	Chromium, total	0.680	mg/L
AW-08	Background	E003	11/06/2023	Cobalt, total	0.400	mg/L
AW-08	Background	E003	11/06/2023	Dissolved Oxygen	0.0700	mg/L
AW-08	Background	E003	11/06/2023	Fluoride, total	0.175 J	mg/L
AW-08	Background	E003	11/06/2023	Lead, total	0.420	mg/L
AW-08	Background	E003	11/06/2023	Lithium, total	0.660	mg/L
AW-08	Background	E003	11/06/2023	Mercury, total	0.00110	mg/L
AW-08	Background	E003	11/06/2023	Molybdenum, total	0.0140	mg/L
AW-08	Background	E003	11/06/2023	Oxidation Reduction Potential	-150	mV
AW-08	Background	E003	11/06/2023	pH (field)	7.3	SU
AW-08	Background	E003	11/06/2023	Radium 226 + Radium 228, total	29.1	pCi/L
AW-08	Background	E003	11/06/2023	Selenium, total	0.0150	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
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ASH POND
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-08	Background	E003	11/06/2023	Specific Conductance @ 25C (field)	1,550	micromhos/cm
AW-08	Background	E003	11/06/2023	Sulfate, total	0.18 U	mg/L
AW-08	Background	E003	11/06/2023	Temperature	18.6	degrees C
AW-08	Background	E003	11/06/2023	Thallium, total	0.00410	mg/L
AW-08	Background	E003	11/06/2023	Total Dissolved Solids	720	mg/L
AW-08	Background	E003	11/06/2023	Turbidity, field	1,000	NTU
AP07S	Compliance	E003	11/03/2023	Antimony, total	0.00043 U	mg/L
AP07S	Compliance	E003	11/03/2023	Arsenic, total	0.00069 U	mg/L
AP07S	Compliance	E003	11/03/2023	Barium, total	0.0480	mg/L
AP07S	Compliance	E003	11/03/2023	Beryllium, total	0.00059 U	mg/L
AP07S	Compliance	E003	11/03/2023	Boron, total	8.20	mg/L
AP07S	Compliance	E003	11/03/2023	Cadmium, total	0.00074 U	mg/L
AP07S	Compliance	E003	11/03/2023	Calcium, total	130	mg/L
AP07S	Compliance	E003	11/03/2023	Chloride, total	73.0	mg/L
AP07S	Compliance	E003	11/03/2023	Chromium, total	0.0028 U	mg/L
AP07S	Compliance	E003	11/03/2023	Cobalt, total	0.00260	mg/L
AP07S	Compliance	E003	11/03/2023	Dissolved Oxygen	0	mg/L
AP07S	Compliance	E003	11/03/2023	Fluoride, total	0.229 J	mg/L
AP07S	Compliance	E003	11/03/2023	Lead, total	0.0002 UJ	mg/L
AP07S	Compliance	E003	11/03/2023	Lithium, total	0.005 U	mg/L
AP07S	Compliance	E003	11/03/2023	Mercury, total	0.00014 U	mg/L
AP07S	Compliance	E003	11/03/2023	Molybdenum, total	0.00100	mg/L
AP07S	Compliance	E003	11/03/2023	Oxidation Reduction Potential	-56.0	mV
AP07S	Compliance	E003	11/03/2023	pH (field)	7.5	SU
AP07S	Compliance	E003	11/03/2023	Radium 226 + Radium 228, total	1.02 J+	pCi/L
AP07S	Compliance	E003	11/03/2023	Selenium, total	0.00013 U	mg/L
AP07S	Compliance	E003	11/03/2023	Specific Conductance @ 25C (field)	1,320	micromhos/cm
AP07S	Compliance	E003	11/03/2023	Sulfate, total	180	mg/L
AP07S	Compliance	E003	11/03/2023	Temperature	16.2	degrees C
AP07S	Compliance	E003	11/03/2023	Thallium, total	0.00038 U	mg/L
AP07S	Compliance	E003	11/03/2023	Total Dissolved Solids	720	mg/L
AP07S	Compliance	E003	11/03/2023	Turbidity, field	2.90	NTU
AW-01	Compliance	E003	11/06/2023	Antimony, total	0.00043 U	mg/L
AW-01	Compliance	E003	11/06/2023	Arsenic, total	0.0120	mg/L
AW-01	Compliance	E003	11/06/2023	Barium, total	0.140	mg/L
AW-01	Compliance	E003	11/06/2023	Beryllium, total	0.00059 U	mg/L
AW-01	Compliance	E003	11/06/2023	Boron, total	0.0860 J+	mg/L
AW-01	Compliance	E003	11/06/2023	Cadmium, total	0.00074 U	mg/L
AW-01	Compliance	E003	11/06/2023	Calcium, total	190	mg/L
AW-01	Compliance	E003	11/06/2023	Chloride, total	10.0	mg/L
AW-01	Compliance	E003	11/06/2023	Chromium, total	0.00410	mg/L
AW-01	Compliance	E003	11/06/2023	Cobalt, total	0.00600	mg/L
AW-01	Compliance	E003	11/06/2023	Dissolved Oxygen	1.80	mg/L
AW-01	Compliance	E003	11/06/2023	Fluoride, total	0.14 J	mg/L
AW-01	Compliance	E003	11/06/2023	Lead, total	0.00220 J+	mg/L
AW-01	Compliance	E003	11/06/2023	Lithium, total	0.007 J	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-01	Compliance	E003	11/06/2023	Mercury, total	0.00014 U	mg/L
AW-01	Compliance	E003	11/06/2023	Molybdenum, total	0.00340	mg/L
AW-01	Compliance	E003	11/06/2023	Oxidation Reduction Potential	-83.0	mV
AW-01	Compliance	E003	11/06/2023	pH (field)	6.8	SU
AW-01	Compliance	E003	11/06/2023	Radium 226 + Radium 228, total	4.72 J	pCi/L
AW-01	Compliance	E003	11/06/2023	Selenium, total	0.00032 J	mg/L
AW-01	Compliance	E003	11/06/2023	Specific Conductance @ 25C (field)	1,340	micromhos/cm
AW-01	Compliance	E003	11/06/2023	Sulfate, total	50.0	mg/L
AW-01	Compliance	E003	11/06/2023	Temperature	17.9	degrees C
AW-01	Compliance	E003	11/06/2023	Thallium, total	0.00038 U	mg/L
AW-01	Compliance	E003	11/06/2023	Total Dissolved Solids	770	mg/L
AW-01	Compliance	E003	11/06/2023	Turbidity, field	304	NTU
AW-05	Compliance	E003	11/06/2023	Antimony, total	0.00043 U	mg/L
AW-05	Compliance	E003	11/06/2023	Arsenic, total	0.00320	mg/L
AW-05	Compliance	E003	11/06/2023	Barium, total	0.110	mg/L
AW-05	Compliance	E003	11/06/2023	Beryllium, total	0.00059 U	mg/L
AW-05	Compliance	E003	11/06/2023	Boron, total	11.0	mg/L
AW-05	Compliance	E003	11/06/2023	Cadmium, total	0.00074 U	mg/L
AW-05	Compliance	E003	11/06/2023	Calcium, total	180	mg/L
AW-05	Compliance	E003	11/06/2023	Chloride, total	81.0	mg/L
AW-05	Compliance	E003	11/06/2023	Chromium, total	0.00420	mg/L
AW-05	Compliance	E003	11/06/2023	Cobalt, total	0.00330	mg/L
AW-05	Compliance	E003	11/06/2023	Dissolved Oxygen	1.50	mg/L
AW-05	Compliance	E003	11/06/2023	Fluoride, total	0.139 J	mg/L
AW-05	Compliance	E003	11/06/2023	Lead, total	0.00180 J+	mg/L
AW-05	Compliance	E003	11/06/2023	Lithium, total	0.013 J	mg/L
AW-05	Compliance	E003	11/06/2023	Mercury, total	0.00014 U	mg/L
AW-05	Compliance	E003	11/06/2023	Molybdenum, total	0.00220	mg/L
AW-05	Compliance	E003	11/06/2023	Oxidation Reduction Potential	-42.0	mV
AW-05	Compliance	E003	11/06/2023	pH (field)	6.8	SU
AW-05	Compliance	E003	11/06/2023	Radium 226 + Radium 228, total	0.465 U*	pCi/L
AW-05	Compliance	E003	11/06/2023	Selenium, total	0.00028 J	mg/L
AW-05	Compliance	E003	11/06/2023	Specific Conductance @ 25C (field)	1,730	micromhos/cm
AW-05	Compliance	E003	11/06/2023	Sulfate, total	5.70	mg/L
AW-05	Compliance	E003	11/06/2023	Temperature	17.3	degrees C
AW-05	Compliance	E003	11/06/2023	Thallium, total	0.00038 U	mg/L
AW-05	Compliance	E003	11/06/2023	Total Dissolved Solids	1,300	mg/L
AW-05	Compliance	E003	11/06/2023	Turbidity, field	699	NTU
AW-06	Compliance	E003	11/06/2023	Antimony, total	0.00043 U	mg/L
AW-06	Compliance	E003	11/06/2023	Arsenic, total	0.00440	mg/L
AW-06	Compliance	E003	11/06/2023	Barium, total	0.180	mg/L
AW-06	Compliance	E003	11/06/2023	Beryllium, total	0.00059 U	mg/L
AW-06	Compliance	E003	11/06/2023	Boron, total	0.150 J+	mg/L
AW-06	Compliance	E003	11/06/2023	Cadmium, total	0.00074 U	mg/L
AW-06	Compliance	E003	11/06/2023	Calcium, total	110	mg/L
AW-06	Compliance	E003	11/06/2023	Chloride, total	37.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
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EDWARDS POWER PLANT
ASH POND
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-06	Compliance	E003	11/06/2023	Chromium, total	0.0032 J	mg/L
AW-06	Compliance	E003	11/06/2023	Cobalt, total	0.0016 J	mg/L
AW-06	Compliance	E003	11/06/2023	Dissolved Oxygen	1.60	mg/L
AW-06	Compliance	E003	11/06/2023	Fluoride, total	0.282	mg/L
AW-06	Compliance	E003	11/06/2023	Lead, total	0.00160 J+	mg/L
AW-06	Compliance	E003	11/06/2023	Lithium, total	0.014 J	mg/L
AW-06	Compliance	E003	11/06/2023	Mercury, total	0.00014 U	mg/L
AW-06	Compliance	E003	11/06/2023	Molybdenum, total	0.00470	mg/L
AW-06	Compliance	E003	11/06/2023	Oxidation Reduction Potential	-91.0	mV
AW-06	Compliance	E003	11/06/2023	pH (field)	7.4	SU
AW-06	Compliance	E003	11/06/2023	Radium 226 + Radium 228, total	0.785 J+	pCi/L
AW-06	Compliance	E003	11/06/2023	Selenium, total	0.00025 J	mg/L
AW-06	Compliance	E003	11/06/2023	Specific Conductance @ 25C (field)	1,120	micromhos/cm
AW-06	Compliance	E003	11/06/2023	Sulfate, total	23.0	mg/L
AW-06	Compliance	E003	11/06/2023	Temperature	16.1	degrees C
AW-06	Compliance	E003	11/06/2023	Thallium, total	0.00038 U	mg/L
AW-06	Compliance	E003	11/06/2023	Total Dissolved Solids	570	mg/L
AW-06	Compliance	E003	11/06/2023	Turbidity, field	609	NTU
AW-09	Compliance	E003	11/06/2023	Antimony, total	0.00043 U	mg/L
AW-09	Compliance	E003	11/06/2023	Arsenic, total	0.0240	mg/L
AW-09	Compliance	E003	11/06/2023	Barium, total	0.430	mg/L
AW-09	Compliance	E003	11/06/2023	Beryllium, total	0.00059 U	mg/L
AW-09	Compliance	E003	11/06/2023	Boron, total	0.310 J+	mg/L
AW-09	Compliance	E003	11/06/2023	Cadmium, total	0.00074 U	mg/L
AW-09	Compliance	E003	11/06/2023	Calcium, total	120	mg/L
AW-09	Compliance	E003	11/06/2023	Chloride, total	29.0	mg/L
AW-09	Compliance	E003	11/06/2023	Chromium, total	0.0028 U	mg/L
AW-09	Compliance	E003	11/06/2023	Cobalt, total	0.00310	mg/L
AW-09	Compliance	E003	11/06/2023	Dissolved Oxygen	1.80	mg/L
AW-09	Compliance	E003	11/06/2023	Fluoride, total	0.128 J	mg/L
AW-09	Compliance	E003	11/06/2023	Lead, total	0.00120 J+	mg/L
AW-09	Compliance	E003	11/06/2023	Lithium, total	0.017 J	mg/L
AW-09	Compliance	E003	11/06/2023	Mercury, total	0.00014 U	mg/L
AW-09	Compliance	E003	11/06/2023	Molybdenum, total	0.0210	mg/L
AW-09	Compliance	E003	11/06/2023	Oxidation Reduction Potential	-110	mV
AW-09	Compliance	E003	11/06/2023	pH (field)	7.1	SU
AW-09	Compliance	E003	11/06/2023	Radium 226 + Radium 228, total	1.35 J+	pCi/L
AW-09	Compliance	E003	11/06/2023	Selenium, total	0.00026 J	mg/L
AW-09	Compliance	E003	11/06/2023	Specific Conductance @ 25C (field)	1,480	micromhos/cm
AW-09	Compliance	E003	11/06/2023	Sulfate, total	0.18 U	mg/L
AW-09	Compliance	E003	11/06/2023	Temperature	16.9	degrees C
AW-09	Compliance	E003	11/06/2023	Thallium, total	0.00038 U	mg/L
AW-09	Compliance	E003	11/06/2023	Total Dissolved Solids	800	mg/L
AW-09	Compliance	E003	11/06/2023	Turbidity, field	234	NTU
AW-10	Compliance	E003	11/06/2023	Antimony, total	0.00051 J	mg/L
AW-10	Compliance	E003	11/06/2023	Arsenic, total	0.0120	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-10	Compliance	E003	11/06/2023	Barium, total	1.00	mg/L
AW-10	Compliance	E003	11/06/2023	Beryllium, total	0.00130	mg/L
AW-10	Compliance	E003	11/06/2023	Boron, total	0.470 J+	mg/L
AW-10	Compliance	E003	11/06/2023	Cadmium, total	0.00074 U	mg/L
AW-10	Compliance	E003	11/06/2023	Calcium, total	140	mg/L
AW-10	Compliance	E003	11/06/2023	Chloride, total	84.0	mg/L
AW-10	Compliance	E003	11/06/2023	Chromium, total	0.0290	mg/L
AW-10	Compliance	E003	11/06/2023	Cobalt, total	0.0180	mg/L
AW-10	Compliance	E003	11/06/2023	Dissolved Oxygen	1.60	mg/L
AW-10	Compliance	E003	11/06/2023	Fluoride, total	0.04 U	mg/L
AW-10	Compliance	E003	11/06/2023	Lead, total	0.0180	mg/L
AW-10	Compliance	E003	11/06/2023	Lithium, total	0.0580	mg/L
AW-10	Compliance	E003	11/06/2023	Mercury, total	0.00014 U	mg/L
AW-10	Compliance	E003	11/06/2023	Molybdenum, total	0.00190	mg/L
AW-10	Compliance	E003	11/06/2023	Oxidation Reduction Potential	-125	mV
AW-10	Compliance	E003	11/06/2023	pH (field)	7.3	SU
AW-10	Compliance	E003	11/06/2023	Radium 226 + Radium 228, total	3.58 J+	pCi/L
AW-10	Compliance	E003	11/06/2023	Selenium, total	0.00110	mg/L
AW-10	Compliance	E003	11/06/2023	Specific Conductance @ 25C (field)	2,190	micromhos/cm
AW-10	Compliance	E003	11/06/2023	Sulfate, total	0.18 U	mg/L
AW-10	Compliance	E003	11/06/2023	Temperature	17.8	degrees C
AW-10	Compliance	E003	11/06/2023	Thallium, total	0.00068 J	mg/L
AW-10	Compliance	E003	11/06/2023	Total Dissolved Solids	1,100	mg/L
AW-10	Compliance	E003	11/06/2023	Turbidity, field	520	NTU
AW-11	Compliance	E003	11/03/2023	Antimony, total	0.00043 U	mg/L
AW-11	Compliance	E003	11/03/2023	Arsenic, total	0.0110	mg/L
AW-11	Compliance	E003	11/03/2023	Barium, total	0.840	mg/L
AW-11	Compliance	E003	11/03/2023	Beryllium, total	0.00059 U	mg/L
AW-11	Compliance	E003	11/03/2023	Boron, total	0.260 J+	mg/L
AW-11	Compliance	E003	11/03/2023	Cadmium, total	0.00074 U	mg/L
AW-11	Compliance	E003	11/03/2023	Calcium, total	160	mg/L
AW-11	Compliance	E003	11/03/2023	Chloride, total	33.0	mg/L
AW-11	Compliance	E003	11/03/2023	Chromium, total	0.0028 U	mg/L
AW-11	Compliance	E003	11/03/2023	Cobalt, total	0.0019 J	mg/L
AW-11	Compliance	E003	11/03/2023	Dissolved Oxygen	1.90	mg/L
AW-11	Compliance	E003	11/03/2023	Fluoride, total	0.0662 J	mg/L
AW-11	Compliance	E003	11/03/2023	Lead, total	0.0002 UJ	mg/L
AW-11	Compliance	E003	11/03/2023	Lithium, total	0.018 J	mg/L
AW-11	Compliance	E003	11/03/2023	Mercury, total	0.00014 U	mg/L
AW-11	Compliance	E003	11/03/2023	Molybdenum, total	0.00200	mg/L
AW-11	Compliance	E003	11/03/2023	Oxidation Reduction Potential	-148	mV
AW-11	Compliance	E003	11/03/2023	pH (field)	6.9	SU
AW-11	Compliance	E003	11/03/2023	Radium 226 + Radium 228, total	1.94 J+	pCi/L
AW-11	Compliance	E003	11/03/2023	Selenium, total	0.00027 J	mg/L
AW-11	Compliance	E003	11/03/2023	Specific Conductance @ 25C (field)	1,850	micromhos/cm
AW-11	Compliance	E003	11/03/2023	Sulfate, total	0.18 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-11	Compliance	E003	11/03/2023	Temperature	14.8	degrees C
AW-11	Compliance	E003	11/03/2023	Thallium, total	0.00038 U	mg/L
AW-11	Compliance	E003	11/03/2023	Total Dissolved Solids	870	mg/L
AW-11	Compliance	E003	11/03/2023	Turbidity, field	169	NTU
AW-14	Compliance	E003	11/03/2023	Antimony, total	0.00054 J	mg/L
AW-14	Compliance	E003	11/03/2023	Arsenic, total	0.00410	mg/L
AW-14	Compliance	E003	11/03/2023	Barium, total	0.830	mg/L
AW-14	Compliance	E003	11/03/2023	Beryllium, total	0.00059 U	mg/L
AW-14	Compliance	E003	11/03/2023	Boron, total	0.240 J+	mg/L
AW-14	Compliance	E003	11/03/2023	Cadmium, total	0.00074 U	mg/L
AW-14	Compliance	E003	11/03/2023	Calcium, total	170	mg/L
AW-14	Compliance	E003	11/03/2023	Chloride, total	28.0	mg/L
AW-14	Compliance	E003	11/03/2023	Chromium, total	0.0028 U	mg/L
AW-14	Compliance	E003	11/03/2023	Cobalt, total	0.0018 J	mg/L
AW-14	Compliance	E003	11/03/2023	Dissolved Oxygen	1.60	mg/L
AW-14	Compliance	E003	11/03/2023	Fluoride, total	0.0524 J	mg/L
AW-14	Compliance	E003	11/03/2023	Lead, total	0.0002 UJ	mg/L
AW-14	Compliance	E003	11/03/2023	Lithium, total	0.016 J	mg/L
AW-14	Compliance	E003	11/03/2023	Mercury, total	0.00014 U	mg/L
AW-14	Compliance	E003	11/03/2023	Molybdenum, total	0.00180	mg/L
AW-14	Compliance	E003	11/03/2023	Oxidation Reduction Potential	-128	mV
AW-14	Compliance	E003	11/03/2023	pH (field)	6.8	SU
AW-14	Compliance	E003	11/03/2023	Radium 226 + Radium 228, total	1.87 J+	pCi/L
AW-14	Compliance	E003	11/03/2023	Selenium, total	0.0005 J	mg/L
AW-14	Compliance	E003	11/03/2023	Specific Conductance @ 25C (field)	1,840	micromhos/cm
AW-14	Compliance	E003	11/03/2023	Sulfate, total	6.50	mg/L
AW-14	Compliance	E003	11/03/2023	Temperature	14.5	degrees C
AW-14	Compliance	E003	11/03/2023	Thallium, total	0.00038 U	mg/L
AW-14	Compliance	E003	11/03/2023	Total Dissolved Solids	980	mg/L
AW-14	Compliance	E003	11/03/2023	Turbidity, field	330	NTU
AW-15	Compliance	E003	11/02/2023	Antimony, total	0.00043 U	mg/L
AW-15	Compliance	E003	11/02/2023	Arsenic, total	0.00180	mg/L
AW-15	Compliance	E003	11/02/2023	Barium, total	1.90	mg/L
AW-15	Compliance	E003	11/02/2023	Beryllium, total	0.00059 U	mg/L
AW-15	Compliance	E003	11/02/2023	Boron, total	0.400 J+	mg/L
AW-15	Compliance	E003	11/02/2023	Cadmium, total	0.00074 U	mg/L
AW-15	Compliance	E003	11/02/2023	Calcium, total	140	mg/L
AW-15	Compliance	E003	11/02/2023	Chloride, total	34.0	mg/L
AW-15	Compliance	E003	11/02/2023	Chromium, total	0.0028 U	mg/L
AW-15	Compliance	E003	11/02/2023	Cobalt, total	0.0017 J	mg/L
AW-15	Compliance	E003	11/02/2023	Dissolved Oxygen	0	mg/L
AW-15	Compliance	E003	11/02/2023	Fluoride, total	0.04 U	mg/L
AW-15	Compliance	E003	11/02/2023	Lead, total	0.00022 U	mg/L
AW-15	Compliance	E003	11/02/2023	Lithium, total	0.0290	mg/L
AW-15	Compliance	E003	11/02/2023	Mercury, total	0.00015 J	mg/L
AW-15	Compliance	E003	11/02/2023	Molybdenum, total	0.00074 U	mg/L

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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-15	Compliance	E003	11/02/2023	Oxidation Reduction Potential	-95.0	mV
AW-15	Compliance	E003	11/02/2023	pH (field)	7.0	SU
AW-15	Compliance	E003	11/02/2023	Radium 226 + Radium 228, total	5.52 J+	pCi/L
AW-15	Compliance	E003	11/02/2023	Selenium, total	0.00036 J	mg/L
AW-15	Compliance	E003	11/02/2023	Specific Conductance @ 25C (field)	1,948	micromhos/cm
AW-15	Compliance	E003	11/02/2023	Sulfate, total	0.21 J	mg/L
AW-15	Compliance	E003	11/02/2023	Temperature	14.0	degrees C
AW-15	Compliance	E003	11/02/2023	Thallium, total	0.00038 U	mg/L
AW-15	Compliance	E003	11/17/2023	Total Dissolved Solids	1,000 J	mg/L
AW-15	Compliance	E003	11/02/2023	Turbidity, field	2.50	NTU
AW-15S	Compliance	E003	11/02/2023	Antimony, total	0.00043 U	mg/L
AW-15S	Compliance	E003	11/02/2023	Arsenic, total	0.00069 U	mg/L
AW-15S	Compliance	E003	11/02/2023	Barium, total	0.0840	mg/L
AW-15S	Compliance	E003	11/02/2023	Beryllium, total	0.00059 U	mg/L
AW-15S	Compliance	E003	11/02/2023	Boron, total	6.00	mg/L
AW-15S	Compliance	E003	11/02/2023	Cadmium, total	0.00074 U	mg/L
AW-15S	Compliance	E003	11/02/2023	Calcium, total	270	mg/L
AW-15S	Compliance	E003	11/02/2023	Chloride, total	30.0	mg/L
AW-15S	Compliance	E003	11/02/2023	Chromium, total	0.0028 U	mg/L
AW-15S	Compliance	E003	11/02/2023	Cobalt, total	0.00065 J	mg/L
AW-15S	Compliance	E003	11/02/2023	Dissolved Oxygen	0	mg/L
AW-15S	Compliance	E003	11/02/2023	Fluoride, total	0.258	mg/L
AW-15S	Compliance	E003	11/02/2023	Lead, total	0.00022 U	mg/L
AW-15S	Compliance	E003	11/02/2023	Lithium, total	0.014 J	mg/L
AW-15S	Compliance	E003	11/02/2023	Mercury, total	0.00014 U	mg/L
AW-15S	Compliance	E003	11/02/2023	Molybdenum, total	0.00350	mg/L
AW-15S	Compliance	E003	11/02/2023	Oxidation Reduction Potential	1.00	mV
AW-15S	Compliance	E003	11/02/2023	pH (field)	7.0	SU
AW-15S	Compliance	E003	11/02/2023	Selenium, total	0.00100	mg/L
AW-15S	Compliance	E003	11/02/2023	Specific Conductance @ 25C (field)	1,795	micromhos/cm
AW-15S	Compliance	E003	11/02/2023	Sulfate, total	550	mg/L
AW-15S	Compliance	E003	11/02/2023	Temperature	16.1	degrees C
AW-15S	Compliance	E003	11/02/2023	Thallium, total	0.00038 U	mg/L
AW-15S	Compliance	E003	11/17/2023	Total Dissolved Solids	1,200	mg/L
AW-15S	Compliance	E003	11/02/2023	Turbidity, field	1.60	NTU
AW-16	Compliance	E003	11/02/2023	Antimony, total	0.00043 U	mg/L
AW-16	Compliance	E003	11/02/2023	Arsenic, total	0.00120	mg/L
AW-16	Compliance	E003	11/02/2023	Barium, total	1.10	mg/L
AW-16	Compliance	E003	11/02/2023	Beryllium, total	0.00059 U	mg/L
AW-16	Compliance	E003	11/02/2023	Boron, total	0.420 J+	mg/L
AW-16	Compliance	E003	11/02/2023	Cadmium, total	0.00074 U	mg/L
AW-16	Compliance	E003	11/02/2023	Calcium, total	150	mg/L
AW-16	Compliance	E003	11/02/2023	Chloride, total	48.0	mg/L
AW-16	Compliance	E003	11/02/2023	Chromium, total	0.0028 U	mg/L
AW-16	Compliance	E003	11/02/2023	Cobalt, total	0.0016 J	mg/L
AW-16	Compliance	E003	11/02/2023	Dissolved Oxygen	0.860	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-16	Compliance	E003	11/02/2023	Fluoride, total	0.04 U	mg/L
AW-16	Compliance	E003	11/02/2023	Lead, total	0.00022 U	mg/L
AW-16	Compliance	E003	11/02/2023	Lithium, total	0.0290	mg/L
AW-16	Compliance	E003	11/02/2023	Mercury, total	0.00018 J	mg/L
AW-16	Compliance	E003	11/02/2023	Molybdenum, total	0.00074 U	mg/L
AW-16	Compliance	E003	11/02/2023	Oxidation Reduction Potential	-126	mV
AW-16	Compliance	E003	11/02/2023	pH (field)	6.7	SU
AW-16	Compliance	E003	11/02/2023	Radium 226 + Radium 228, total	3.93 J+	pCi/L
AW-16	Compliance	E003	11/02/2023	Selenium, total	0.00024 J	mg/L
AW-16	Compliance	E003	11/02/2023	Specific Conductance @ 25C (field)	2,180	micromhos/cm
AW-16	Compliance	E003	11/02/2023	Sulfate, total	0.81 J	mg/L
AW-16	Compliance	E003	11/02/2023	Temperature	14.6	degrees C
AW-16	Compliance	E003	11/02/2023	Thallium, total	0.00038 U	mg/L
AW-16	Compliance	E003	11/17/2023	Total Dissolved Solids	1,100 J	mg/L
AW-16	Compliance	E003	11/02/2023	Turbidity, field	0 U	NTU
AW-17	Compliance	E003	11/01/2023	Antimony, total	0.00043 U	mg/L
AW-17	Compliance	E003	11/01/2023	Arsenic, total	0.00360	mg/L
AW-17	Compliance	E003	11/01/2023	Barium, total	0.970	mg/L
AW-17	Compliance	E003	11/01/2023	Beryllium, total	0.00059 U	mg/L
AW-17	Compliance	E003	11/01/2023	Boron, total	0.420 J+	mg/L
AW-17	Compliance	E003	11/01/2023	Cadmium, total	0.00074 U	mg/L
AW-17	Compliance	E003	11/01/2023	Calcium, total	100	mg/L
AW-17	Compliance	E003	11/01/2023	Chloride, total	53.0	mg/L
AW-17	Compliance	E003	11/01/2023	Chromium, total	0.0028 U	mg/L
AW-17	Compliance	E003	11/01/2023	Cobalt, total	0.00220	mg/L
AW-17	Compliance	E003	11/01/2023	Dissolved Oxygen	0.880	mg/L
AW-17	Compliance	E003	11/01/2023	Fluoride, total	0.0458 J-	mg/L
AW-17	Compliance	E003	11/01/2023	Lead, total	0.0002 UJ	mg/L
AW-17	Compliance	E003	11/01/2023	Lithium, total	0.0330	mg/L
AW-17	Compliance	E003	11/01/2023	Mercury, total	0.00014 U	mg/L
AW-17	Compliance	E003	11/01/2023	Molybdenum, total	0.00074 U	mg/L
AW-17	Compliance	E003	11/01/2023	Oxidation Reduction Potential	-115	mV
AW-17	Compliance	E003	11/01/2023	pH (field)	6.8	SU
AW-17	Compliance	E003	11/01/2023	Radium 226 + Radium 228, total	2.75 J+	pCi/L
AW-17	Compliance	E003	11/01/2023	Selenium, total	0.00074 U	mg/L
AW-17	Compliance	E003	11/01/2023	Specific Conductance @ 25C (field)	1,840	micromhos/cm
AW-17	Compliance	E003	11/01/2023	Sulfate, total	0.18 U	mg/L
AW-17	Compliance	E003	11/01/2023	Temperature	13.1	degrees C
AW-17	Compliance	E003	11/01/2023	Thallium, total	0.00038 U	mg/L
AW-17	Compliance	E003	11/01/2023	Total Dissolved Solids	1,000	mg/L
AW-17	Compliance	E003	11/01/2023	Turbidity, field	118	NTU
AW-18	Compliance	E003	11/01/2023	Antimony, total	0.00043 U	mg/L
AW-18	Compliance	E003	11/01/2023	Arsenic, total	0.00420	mg/L
AW-18	Compliance	E003	11/01/2023	Barium, total	1.50	mg/L
AW-18	Compliance	E003	11/01/2023	Beryllium, total	0.00059 U	mg/L
AW-18	Compliance	E003	11/01/2023	Boron, total	0.330 J+	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-18	Compliance	E003	11/01/2023	Cadmium, total	0.00074 U	mg/L
AW-18	Compliance	E003	11/01/2023	Calcium, total	120	mg/L
AW-18	Compliance	E003	11/01/2023	Chloride, total	89.0	mg/L
AW-18	Compliance	E003	11/01/2023	Chromium, total	0.003 J	mg/L
AW-18	Compliance	E003	11/01/2023	Cobalt, total	0.0014 J	mg/L
AW-18	Compliance	E003	11/01/2023	Dissolved Oxygen	0.880	mg/L
AW-18	Compliance	E003	11/01/2023	Fluoride, total	0.0915 J	mg/L
AW-18	Compliance	E003	11/01/2023	Lead, total	0.00130 J+	mg/L
AW-18	Compliance	E003	11/01/2023	Lithium, total	0.0270	mg/L
AW-18	Compliance	E003	11/01/2023	Mercury, total	0.00014 U	mg/L
AW-18	Compliance	E003	11/01/2023	Molybdenum, total	0.00150	mg/L
AW-18	Compliance	E003	11/01/2023	Oxidation Reduction Potential	-111	mV
AW-18	Compliance	E003	11/01/2023	pH (field)	6.8	SU
AW-18	Compliance	E003	11/01/2023	Radium 226 + Radium 228, total	4.06 J+	pCi/L
AW-18	Compliance	E003	11/01/2023	Selenium, total	0.00074 U	mg/L
AW-18	Compliance	E003	11/01/2023	Specific Conductance @ 25C (field)	1,840	micromhos/cm
AW-18	Compliance	E003	11/01/2023	Sulfate, total	8.20	mg/L
AW-18	Compliance	E003	11/01/2023	Temperature	13.4	degrees C
AW-18	Compliance	E003	11/01/2023	Thallium, total	0.00038 U	mg/L
AW-18	Compliance	E003	11/01/2023	Total Dissolved Solids	800 J	mg/L
AW-18	Compliance	E003	11/01/2023	Turbidity, field	149	NTU
AW-19	Compliance	E003	11/01/2023	Antimony, total	0.00043 U	mg/L
AW-19	Compliance	E003	11/01/2023	Arsenic, total	0.0100	mg/L
AW-19	Compliance	E003	11/01/2023	Barium, total	0.190	mg/L
AW-19	Compliance	E003	11/01/2023	Beryllium, total	0.00059 U	mg/L
AW-19	Compliance	E003	11/01/2023	Boron, total	3.20	mg/L
AW-19	Compliance	E003	11/01/2023	Cadmium, total	0.00074 U	mg/L
AW-19	Compliance	E003	11/01/2023	Calcium, total	120	mg/L
AW-19	Compliance	E003	11/01/2023	Chloride, total	77.0	mg/L
AW-19	Compliance	E003	11/01/2023	Chromium, total	0.0028 U	mg/L
AW-19	Compliance	E003	11/01/2023	Cobalt, total	0.0011 J	mg/L
AW-19	Compliance	E003	11/01/2023	Dissolved Oxygen	1.00	mg/L
AW-19	Compliance	E003	11/01/2023	Fluoride, total	0.212 J	mg/L
AW-19	Compliance	E003	11/01/2023	Lead, total	0.0002 UJ	mg/L
AW-19	Compliance	E003	11/01/2023	Lithium, total	0.011 J	mg/L
AW-19	Compliance	E003	11/01/2023	Mercury, total	0.00014 U	mg/L
AW-19	Compliance	E003	11/01/2023	Molybdenum, total	0.00410	mg/L
AW-19	Compliance	E003	11/01/2023	Oxidation Reduction Potential	-66.0	mV
AW-19	Compliance	E003	11/01/2023	pH (field)	7.0	SU
AW-19	Compliance	E003	11/01/2023	Radium 226 + Radium 228, total	0.982 J+	pCi/L
AW-19	Compliance	E003	11/01/2023	Selenium, total	0.00074 U	mg/L
AW-19	Compliance	E003	11/01/2023	Specific Conductance @ 25C (field)	1,140	micromhos/cm
AW-19	Compliance	E003	11/01/2023	Sulfate, total	57.0	mg/L
AW-19	Compliance	E003	11/01/2023	Temperature	14.4	degrees C
AW-19	Compliance	E003	11/01/2023	Thallium, total	0.00038 U	mg/L
AW-19	Compliance	E003	11/01/2023	Total Dissolved Solids	760	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-19	Compliance	E003	11/01/2023	Turbidity, field	79.1	NTU
AW-21	Compliance	E003	11/02/2023	Antimony, total	0.0006 J	mg/L
AW-21	Compliance	E003	11/02/2023	Arsenic, total	0.00097 J	mg/L
AW-21	Compliance	E003	11/02/2023	Barium, total	0.0510	mg/L
AW-21	Compliance	E003	11/02/2023	Beryllium, total	0.00059 U	mg/L
AW-21	Compliance	E003	11/02/2023	Boron, total	12.0	mg/L
AW-21	Compliance	E003	11/02/2023	Cadmium, total	0.00074 U	mg/L
AW-21	Compliance	E003	11/02/2023	Calcium, total	120	mg/L
AW-21	Compliance	E003	11/02/2023	Chloride, total	97.0	mg/L
AW-21	Compliance	E003	11/02/2023	Chromium, total	0.0028 U	mg/L
AW-21	Compliance	E003	11/02/2023	Cobalt, total	0.00057 J	mg/L
AW-21	Compliance	E003	11/02/2023	Dissolved Oxygen	2.40	mg/L
AW-21	Compliance	E003	11/02/2023	Fluoride, total	0.399	mg/L
AW-21	Compliance	E003	11/02/2023	Lead, total	0.00022 U	mg/L
AW-21	Compliance	E003	11/02/2023	Lithium, total	0.005 U	mg/L
AW-21	Compliance	E003	11/02/2023	Mercury, total	0.00014 U	mg/L
AW-21	Compliance	E003	11/02/2023	Molybdenum, total	0.0280	mg/L
AW-21	Compliance	E003	11/02/2023	Oxidation Reduction Potential	46.0	mV
AW-21	Compliance	E003	11/02/2023	pH (field)	7.2	SU
AW-21	Compliance	E003	11/02/2023	Radium 226 + Radium 228, total	1.26 J	pCi/L
AW-21	Compliance	E003	11/02/2023	Selenium, total	0.00300	mg/L
AW-21	Compliance	E003	11/02/2023	Specific Conductance @ 25C (field)	1,100	micromhos/cm
AW-21	Compliance	E003	11/02/2023	Sulfate, total	260	mg/L
AW-21	Compliance	E003	11/02/2023	Temperature	15.4	degrees C
AW-21	Compliance	E003	11/02/2023	Thallium, total	0.00038 U	mg/L
AW-21	Compliance	E003	11/17/2023	Total Dissolved Solids	690	mg/L
AW-21	Compliance	E003	11/02/2023	Turbidity, field	20.0	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 low.
J+ = The result is an estimated quantity, but the result may be biased high.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AP07S	PMP	E001	Antimony, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AP07S	PMP	E001	Arsenic, total	mg/L	02/10/21 - 06/15/23	10	80	CI around median	0.001	0.0300	Background	No Exceedance
AP07S	PMP	E001	Barium, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	0.0791	2.07	Background	No Exceedance
AP07S	PMP	E001	Beryllium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AP07S	PMP	E001	Boron, total	mg/L	02/10/21 - 06/15/23	10	0	CB around linear reg	6.94	2	Standard	Exceedance
AP07S	PMP	E001	Cadmium, total	mg/L	02/10/21 - 06/15/23	10	90	CI around median	0.001	0.005	Standard	No Exceedance
AP07S	PMP	E001	Chloride, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	72.5	200	Standard	No Exceedance
AP07S	PMP	E001	Chromium, total	mg/L	02/10/21 - 06/15/23	10	60	CI around median	0.004	0.1	Standard	No Exceedance
AP07S	PMP	E001	Cobalt, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	0.00228	0.0280	Background	No Exceedance
AP07S	PMP	E001	Fluoride, total	mg/L	02/10/21 - 06/15/23	10	70	CB around T-S line	-2.23	4.0	Standard	No Exceedance
AP07S	PMP	E001	Lead, total	mg/L	02/10/21 - 06/15/23	10	50	CI around median	0.001	0.0330	Background	No Exceedance
AP07S	PMP	E001	Lithium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AP07S	PMP	E001	Mercury, total	mg/L	02/10/21 - 06/15/23	10	90	CI around median	0.0002	0.002	Standard	No Exceedance
AP07S	PMP	E001	Molybdenum, total	mg/L	02/10/21 - 06/15/23	10	50	CI around median	0.001	0.1	Standard	No Exceedance
AP07S	PMP	E001	pH (field)	SU	02/10/21 - 06/15/23	10	0	CI around mean	6.5/6.9	6.3/9.0	Background/Standard	No Exceedance
AP07S	PMP	E001	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 06/15/23	10	0	CI around mean	0.452	9.60	Background	No Exceedance
AP07S	PMP	E001	Selenium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AP07S	PMP	E001	Sulfate, total	mg/L	02/10/21 - 06/15/23	10	0	CI around median	160	400	Standard	No Exceedance
AP07S	PMP	E001	Thallium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AP07S	PMP	E001	Total Dissolved Solids	mg/L	02/10/21 - 06/15/23	10	0	CB around linear reg	224	1,200	Standard	No Exceedance
AW-01	PMP	E001	Antimony, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-01	PMP	E001	Arsenic, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	-0.00267	0.0300	Background	No Exceedance
AW-01	PMP	E001	Barium, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.0903	2.07	Background	No Exceedance
AW-01	PMP	E001	Beryllium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-01	PMP	E001	Boron, total	mg/L	11/18/22 - 06/14/23	5	0	CI around median (Last Sample, n<7)	0.072	2	Standard	No Exceedance
AW-01	PMP	E001	Cadmium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-01	PMP	E001	Chloride, total	mg/L	11/18/22 - 06/14/23	5	0	CI around geomean	4.14	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-01	PMP	E001	Chromium, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.004	0.1	Standard	No Exceedance
AW-01	PMP	E001	Cobalt, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.00199	0.0280	Background	No Exceedance
AW-01	PMP	E001	Fluoride, total	mg/L	11/18/22 - 06/14/23	5	60	CI around median (Last Sample, n<7)	0.25	4.0	Standard	No Exceedance
AW-01	PMP	E001	Lead, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.001	0.0330	Background	No Exceedance
AW-01	PMP	E001	Lithium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-01	PMP	E001	Mercury, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-01	PMP	E001	Molybdenum, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.00159	0.1	Standard	No Exceedance
AW-01	PMP	E001	pH (field)	SU	11/18/22 - 06/14/23	5	0	CI around mean	6.6/7.3	6.3/9.0	Background/Standard	No Exceedance
AW-01	PMP	E001	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 06/14/23	5	0	CI around mean	-0.997	9.60	Background	No Exceedance
AW-01	PMP	E001	Selenium, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.001	0.05	Standard	No Exceedance
AW-01	PMP	E001	Sulfate, total	mg/L	11/18/22 - 06/14/23	5	0	CI around median (Last Sample, n<7)	52	400	Standard	No Exceedance
AW-01	PMP	E001	Thallium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-01	PMP	E001	Total Dissolved Solids	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	664	1,200	Standard	No Exceedance
AW-05	UA	E001	Antimony, total	mg/L	11/09/15 - 06/15/23	14	93	Most recent sample	0.003	0.006	Standard	No Exceedance
AW-05	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/15/23	14	0	CI around geomean	0.00403	0.0300	Background	No Exceedance
AW-05	UA	E001	Barium, total	mg/L	11/09/15 - 06/15/23	14	0	CI around mean	0.144	2.07	Background	No Exceedance
AW-05	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/15/23	13	85	CI around median	0.001	0.004	Standard	No Exceedance
AW-05	UA	E001	Boron, total	mg/L	11/09/15 - 06/15/23	15	0	CI around geomean	1.88	2	Standard	No Exceedance
AW-05	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/15/23	14	86	CI around median	0.001	0.005	Standard	No Exceedance
AW-05	UA	E001	Chloride, total	mg/L	11/09/15 - 06/15/23	15	0	CB around linear reg	-208	200	Standard	No Exceedance
AW-05	UA	E001	Chromium, total	mg/L	11/09/15 - 06/15/23	14	36	CI around geomean	0.00573	0.1	Standard	No Exceedance
AW-05	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/15/23	14	21	CI around geomean	0.00336	0.0280	Background	No Exceedance
AW-05	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/15/23	15	47	CI around median	0.25	4.0	Standard	No Exceedance
AW-05	UA	E001	Lead, total	mg/L	11/09/15 - 06/15/23	13	38	CI around geomean	0.00156	0.0330	Background	No Exceedance
AW-05	UA	E001	Lithium, total	mg/L	11/09/15 - 06/15/23	14	21	CI around geomean	0.0217	0.0710	Background	No Exceedance
AW-05	UA	E001	Mercury, total	mg/L	11/09/15 - 06/15/23	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-05	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/15/23	14	0	CI around mean	0.00202	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-05	UA	E001	pH (field)	SU	11/09/15 - 06/15/23	15	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-05	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/15/23	14	0	CI around mean	0.75	9.60	Background	No Exceedance
AW-05	UA	E001	Selenium, total	mg/L	11/09/15 - 06/15/23	14	43	CI around median	0.001	0.05	Standard	No Exceedance
AW-05	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/15/23	15	0	CI around mean	283	400	Standard	No Exceedance
AW-05	UA	E001	Thallium, total	mg/L	11/09/15 - 06/15/23	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-05	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/15/23	15	0	CI around geomean	1,000	1,200	Standard	No Exceedance
AW-06	UA	E001	Antimony, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-06	UA	E001	Arsenic, total	mg/L	11/10/15 - 06/14/23	20	0	CI around geomean	0.00286	0.0300	Background	No Exceedance
AW-06	UA	E001	Barium, total	mg/L	11/10/15 - 06/14/23	20	0	CI around median	0.16	2.07	Background	No Exceedance
AW-06	UA	E001	Beryllium, total	mg/L	11/10/15 - 06/14/23	20	85	CI around median	0.001	0.004	Standard	No Exceedance
AW-06	UA	E001	Boron, total	mg/L	11/10/15 - 06/14/23	21	0	CB around T-S line	-0.018	2	Standard	No Exceedance
AW-06	UA	E001	Cadmium, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-06	UA	E001	Chloride, total	mg/L	11/10/15 - 06/14/23	21	0	CB around T-S line	1.72	200	Standard	No Exceedance
AW-06	UA	E001	Chromium, total	mg/L	11/10/15 - 06/14/23	20	50	CI around median	0.004	0.1	Standard	No Exceedance
AW-06	UA	E001	Cobalt, total	mg/L	11/10/15 - 06/14/23	20	55	CI around median	0.002	0.0280	Background	No Exceedance
AW-06	UA	E001	Fluoride, total	mg/L	11/10/15 - 06/14/23	21	10	CI around median	0.319	4.0	Standard	No Exceedance
AW-06	UA	E001	Lead, total	mg/L	11/10/15 - 06/14/23	20	35	CI around median	0.001	0.0330	Background	No Exceedance
AW-06	UA	E001	Lithium, total	mg/L	11/10/15 - 06/14/23	20	40	CI around mean	0.0135	0.0710	Background	No Exceedance
AW-06	UA	E001	Mercury, total	mg/L	11/10/15 - 06/14/23	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
AW-06	UA	E001	Molybdenum, total	mg/L	11/10/15 - 06/14/23	20	0	CI around mean	0.00474	0.1	Standard	No Exceedance
AW-06	UA	E001	pH (field)	SU	11/10/15 - 06/14/23	21	0	CI around median	7.1/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-06	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 06/14/23	20	0	CI around mean	0.725	9.60	Background	No Exceedance
AW-06	UA	E001	Selenium, total	mg/L	11/10/15 - 06/14/23	20	70	CI around median	0.001	0.05	Standard	No Exceedance
AW-06	UA	E001	Sulfate, total	mg/L	11/10/15 - 06/14/23	21	0	CB around linear reg	16.8	400	Standard	No Exceedance
AW-06	UA	E001	Thallium, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-06	UA	E001	Total Dissolved Solids	mg/L	11/10/15 - 06/14/23	21	0	CI around mean	505	1,200	Standard	No Exceedance
AW-09	UA	E001	Antimony, total	mg/L	11/10/15 - 06/12/23	15	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-09	UA	E001	Arsenic, total	mg/L	11/10/15 - 06/12/23	20	15	CI around mean	0.00971	0.0300	Background	No Exceedance
AW-09	UA	E001	Barium, total	mg/L	11/10/15 - 06/12/23	20	0	CI around geomean	0.273	2.07	Background	No Exceedance
AW-09	UA	E001	Beryllium, total	mg/L	11/10/15 - 06/12/23	20	80	CB around T-S line	-0.00127	0.004	Standard	No Exceedance
AW-09	UA	E001	Boron, total	mg/L	11/10/15 - 06/12/23	21	0	CB around linear reg	-0.197	2	Standard	No Exceedance
AW-09	UA	E001	Cadmium, total	mg/L	11/10/15 - 06/12/23	15	87	CI around median	0.001	0.005	Standard	No Exceedance
AW-09	UA	E001	Chloride, total	mg/L	11/10/15 - 06/12/23	21	0	CI around median	27	200	Standard	No Exceedance
AW-09	UA	E001	Chromium, total	mg/L	11/10/15 - 06/12/23	20	50	CB around T-S line	-0.0731	0.1	Standard	No Exceedance
AW-09	UA	E001	Cobalt, total	mg/L	11/10/15 - 06/12/23	20	5	CB around T-S line	-0.0405	0.0280	Background	No Exceedance
AW-09	UA	E001	Fluoride, total	mg/L	11/10/15 - 06/12/23	21	57	CB around T-S line	0.168	4.0	Standard	No Exceedance
AW-09	UA	E001	Lead, total	mg/L	11/10/15 - 06/12/23	20	45	CI around median	0.001	0.0330	Background	No Exceedance
AW-09	UA	E001	Lithium, total	mg/L	11/10/15 - 06/12/23	20	25	CB around T-S line	-0.0899	0.0710	Background	No Exceedance
AW-09	UA	E001	Mercury, total	mg/L	11/10/15 - 06/12/23	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
AW-09	UA	E001	Molybdenum, total	mg/L	11/10/15 - 06/12/23	20	0	CI around mean	0.0134	0.1	Standard	No Exceedance
AW-09	UA	E001	pH (field)	SU	11/10/15 - 06/12/23	21	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-09	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 06/12/23	20	0	CI around median	0.633	9.60	Background	No Exceedance
AW-09	UA	E001	Selenium, total	mg/L	11/10/15 - 06/12/23	20	60	CB around T-S line	-0.00401	0.05	Standard	No Exceedance
AW-09	UA	E001	Sulfate, total	mg/L	11/10/15 - 06/12/23	21	48	CB around linear reg	-15.8	400	Standard	No Exceedance
AW-09	UA	E001	Thallium, total	mg/L	11/10/15 - 06/12/23	15	93	CI around median	0.001	0.002	Standard	No Exceedance
AW-09	UA	E001	Total Dissolved Solids	mg/L	11/10/15 - 06/12/23	21	0	CB around T-S line	712	1,200	Standard	No Exceedance
AW-10	UA	E001	Antimony, total	mg/L	11/09/15 - 06/13/23	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-10	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/13/23	21	0	CI around geomean	0.0076	0.0300	Background	No Exceedance
AW-10	UA	E001	Barium, total	mg/L	11/09/15 - 06/13/23	21	0	CI around median	0.98	2.07	Background	No Exceedance
AW-10	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/13/23	21	76	CI around median	0.001	0.004	Standard	No Exceedance
AW-10	UA	E001	Boron, total	mg/L	11/09/15 - 06/13/23	22	0	CI around mean	0.46	2	Standard	No Exceedance
AW-10	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.001	0.005	Standard	No Exceedance
AW-10	UA	E001	Chloride, total	mg/L	11/09/15 - 06/13/23	22	0	CI around mean	87.3	200	Standard	No Exceedance
AW-10	UA	E001	Chromium, total	mg/L	11/09/15 - 06/13/23	21	38	CI around median	0.004	0.1	Standard	No Exceedance

TABLE 2.
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-10	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/13/23	21	5	CI around geomean	0.00338	0.0280	Background	No Exceedance
AW-10	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/13/23	22	96	CI around median	0.25	4.0	Standard	No Exceedance
AW-10	UA	E001	Lead, total	mg/L	11/09/15 - 06/13/23	21	14	CI around geomean	0.0017	0.0330	Background	No Exceedance
AW-10	UA	E001	Lithium, total	mg/L	11/09/15 - 06/13/23	21	0	CB around T-S line	-0.0329	0.0710	Background	No Exceedance
AW-10	UA	E001	Mercury, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-10	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/13/23	21	29	CB around T-S line	-0.000917	0.1	Standard	No Exceedance
AW-10	UA	E001	pH (field)	SU	11/09/15 - 06/13/23	23	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-10	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/13/23	21	0	CI around mean	2.18	9.60	Background	No Exceedance
AW-10	UA	E001	Selenium, total	mg/L	11/09/15 - 06/13/23	21	62	CI around median	0.001	0.05	Standard	No Exceedance
AW-10	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/13/23	22	77	CB around T-S line	0.225	400	Standard	No Exceedance
AW-10	UA	E001	Thallium, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.001	0.002	Standard	No Exceedance
AW-10	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/13/23	22	0	CI around median	1,100	1,200	Standard	No Exceedance
AW-11	UA	E001	Antimony, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-11	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/13/23	20	0	CI around mean	0.00942	0.0300	Background	No Exceedance
AW-11	UA	E001	Barium, total	mg/L	11/09/15 - 06/13/23	20	0	CI around geomean	0.871	2.07	Background	No Exceedance
AW-11	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/13/23	20	75	CI around median	0.001	0.004	Standard	No Exceedance
AW-11	UA	E001	Boron, total	mg/L	11/09/15 - 06/13/23	21	0	CI around mean	0.219	2	Standard	No Exceedance
AW-11	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/13/23	15	80	CI around median	0.001	0.005	Standard	No Exceedance
AW-11	UA	E001	Chloride, total	mg/L	11/09/15 - 06/13/23	21	0	CI around mean	31.1	200	Standard	No Exceedance
AW-11	UA	E001	Chromium, total	mg/L	11/09/15 - 06/13/23	20	45	CB around T-S line	-0.0209	0.1	Standard	No Exceedance
AW-11	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/13/23	20	20	CB around T-S line	-0.0103	0.0280	Background	No Exceedance
AW-11	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/13/23	21	86	CI around median	0.25	4.0	Standard	No Exceedance
AW-11	UA	E001	Lead, total	mg/L	11/09/15 - 06/13/23	20	35	CB around T-S line	-0.0148	0.0330	Background	No Exceedance
AW-11	UA	E001	Lithium, total	mg/L	11/09/15 - 06/13/23	20	15	CB around T-S line	-0.0269	0.0710	Background	No Exceedance
AW-11	UA	E001	Mercury, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-11	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/13/23	20	5	CB around linear reg	-0.00162	0.1	Standard	No Exceedance
AW-11	UA	E001	pH (field)	SU	11/09/15 - 06/13/23	21	0	CI around median	6.9/7.2	6.3/9.0	Background/Standard	No Exceedance

TABLE 2.
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ASH POND
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-11	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/13/23	20	0	CI around mean	1.73	9.60	Background	No Exceedance
AW-11	UA	E001	Selenium, total	mg/L	11/09/15 - 06/13/23	20	65	CI around median	0.001	0.05	Standard	No Exceedance
AW-11	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/13/23	21	62	CB around T-S line	-0.0244	400	Standard	No Exceedance
AW-11	UA	E001	Thallium, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-11	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/13/23	21	0	CB around T-S line	961	1,200	Standard	No Exceedance
AW-14	UA	E001	Antimony, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.003	0.006	Standard	No Exceedance
AW-14	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	0.00745	0.0300	Background	No Exceedance
AW-14	UA	E001	Barium, total	mg/L	02/11/21 - 06/13/23	9	0	CB around linear reg	0.62	2.07	Background	No Exceedance
AW-14	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-14	UA	E001	Boron, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	0.17	2	Standard	No Exceedance
AW-14	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-14	UA	E001	Chloride, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	21.9	200	Standard	No Exceedance
AW-14	UA	E001	Chromium, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.004	0.1	Standard	No Exceedance
AW-14	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/13/23	9	0	CB around linear reg	-0.00451	0.0280	Background	No Exceedance
AW-14	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/13/23	9	78	CI around median	0.25	4.0	Standard	No Exceedance
AW-14	UA	E001	Lead, total	mg/L	02/11/21 - 06/13/23	9	67	CI around median	0.001	0.0330	Background	No Exceedance
AW-14	UA	E001	Lithium, total	mg/L	02/11/21 - 06/13/23	9	44	CI around mean	0.0189	0.0710	Background	No Exceedance
AW-14	UA	E001	Mercury, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-14	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/13/23	9	33	CI around geomean	0.00127	0.1	Standard	No Exceedance
AW-14	UA	E001	pH (field)	SU	02/11/21 - 06/13/23	9	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-14	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/13/23	9	0	CI around mean	1.78	9.60	Background	No Exceedance
AW-14	UA	E001	Selenium, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.001	0.05	Standard	No Exceedance
AW-14	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/13/23	9	22	CI around geomean	1.32	400	Standard	No Exceedance
AW-14	UA	E001	Thallium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-14	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	893	1,200	Standard	No Exceedance
AW-15	UA	E001	Antimony, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15	UA	E001	Arsenic, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.00203	0.0300	Background	No Exceedance

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-15	UA	E001	Barium, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	1.54	2.07	Background	No Exceedance
AW-15	UA	E001	Beryllium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-15	UA	E001	Boron, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.315	2	Standard	No Exceedance
AW-15	UA	E001	Cadmium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15	UA	E001	Chloride, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	33	200	Standard	No Exceedance
AW-15	UA	E001	Chromium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-15	UA	E001	Cobalt, total	mg/L	02/12/21 - 06/12/23	7	86	CI around median	0.002	0.0280	Background	No Exceedance
AW-15	UA	E001	Fluoride, total	mg/L	02/12/21 - 06/12/23	7	71	CI around median	0.25	4.0	Standard	No Exceedance
AW-15	UA	E001	Lead, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-15	UA	E001	Lithium, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.0281	0.0710	Background	No Exceedance
AW-15	UA	E001	Mercury, total	mg/L	02/12/21 - 06/12/23	7	86	CI around median	0.0002	0.002	Standard	No Exceedance
AW-15	UA	E001	Molybdenum, total	mg/L	02/12/21 - 06/12/23	7	71	CI around median	0.001	0.1	Standard	No Exceedance
AW-15	UA	E001	pH (field)	SU	02/12/21 - 06/12/23	6	0	CI around mean	6.6/6.9	6.3/9.0	Background/Standard	No Exceedance
AW-15	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 06/12/23	7	0	CI around mean	2.01	9.60	Background	No Exceedance
AW-15	UA	E001	Selenium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-15	UA	E001	Sulfate, total	mg/L	02/12/21 - 06/12/23	7	86	Most recent sample	1	400	Standard	No Exceedance
AW-15	UA	E001	Thallium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15	UA	E001	Total Dissolved Solids	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	827	1,200	Standard	No Exceedance
AW-15S	PMP	E001	Antimony, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15S	PMP	E001	Arsenic, total	mg/L	02/12/21 - 06/12/23	10	50	CI around median	0.001	0.0300	Background	No Exceedance
AW-15S	PMP	E001	Barium, total	mg/L	02/12/21 - 06/12/23	10	0	CB around T-S line	-0.528	2.07	Background	No Exceedance
AW-15S	PMP	E001	Beryllium, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.001	0.004	Standard	No Exceedance
AW-15S	PMP	E001	Boron, total	mg/L	02/12/21 - 06/12/23	10	0	CI around mean	5.43	2	Standard	Exceedance
AW-15S	PMP	E001	Cadmium, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15S	PMP	E001	Chloride, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	18.8	200	Standard	No Exceedance
AW-15S	PMP	E001	Chromium, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.004	0.1	Standard	No Exceedance
AW-15S	PMP	E001	Cobalt, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.002	0.0280	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-15S	PMP	E001	Fluoride, total	mg/L	02/12/21 - 06/12/23	10	40	CI around median	0.25	4.0	Standard	No Exceedance
AW-15S	PMP	E001	Lead, total	mg/L	02/12/21 - 06/12/23	10	80	CI around median	0.001	0.0330	Background	No Exceedance
AW-15S	PMP	E001	Lithium, total	mg/L	02/12/21 - 06/12/23	10	80	CI around median	0.02	0.0710	Background	No Exceedance
AW-15S	PMP	E001	Mercury, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-15S	PMP	E001	Molybdenum, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	0.00181	0.1	Standard	No Exceedance
AW-15S	PMP	E001	pH (field)	SU	02/12/21 - 06/12/23	10	0	CB around linear reg	6.3/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-15S	PMP	E001	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 06/12/23	9	0	CI around mean	0.184	9.60	Background	No Exceedance
AW-15S	PMP	E001	Selenium, total	mg/L	02/12/21 - 06/12/23	10	40	CI around mean	0.000931	0.05	Standard	No Exceedance
AW-15S	PMP	E001	Sulfate, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	480	400	Standard	Exceedance
AW-15S	PMP	E001	Thallium, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15S	PMP	E001	Total Dissolved Solids	mg/L	02/12/21 - 06/12/23	10	0	CI around mean	1,160	1,200	Standard	No Exceedance
AW-16	UA	E001	Antimony, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-16	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/12/23	10	10	CB around linear reg	0.000917	0.0300	Background	No Exceedance
AW-16	UA	E001	Barium, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	1.19	2.07	Background	No Exceedance
AW-16	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-16	UA	E001	Boron, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	0.472	2	Standard	No Exceedance
AW-16	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-16	UA	E001	Chloride, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	49.5	200	Standard	No Exceedance
AW-16	UA	E001	Chromium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-16	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-16	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.25	4.0	Standard	No Exceedance
AW-16	UA	E001	Lead, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-16	UA	E001	Lithium, total	mg/L	02/11/21 - 06/12/23	10	0	CI around median	0.036	0.0710	Background	No Exceedance
AW-16	UA	E001	Mercury, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-16	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.1	Standard	No Exceedance
AW-16	UA	E001	pH (field)	SU	02/11/21 - 06/12/23	10	0	CI around median	6.5/6.8	6.3/9.0	Background/Standard	No Exceedance
AW-16	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/12/23	10	0	CI around mean	4.02	9.60	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-16	UA	E001	Selenium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-16	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/12/23	10	90	CI around median	1	400	Standard	No Exceedance
AW-16	UA	E001	Thallium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-16	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	1,030	1,200	Standard	No Exceedance
AW-17	UA	E001	Antimony, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-17	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.00485	0.0300	Background	No Exceedance
AW-17	UA	E001	Barium, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	1.05	2.07	Background	No Exceedance
AW-17	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-17	UA	E001	Boron, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.414	2	Standard	No Exceedance
AW-17	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-17	UA	E001	Chloride, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	51.7	200	Standard	No Exceedance
AW-17	UA	E001	Chromium, total	mg/L	02/11/21 - 06/13/23	10	60	CI around median	0.004	0.1	Standard	No Exceedance
AW-17	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.00197	0.0280	Background	No Exceedance
AW-17	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/13/23	10	90	CI around median	0.25	4.0	Standard	No Exceedance
AW-17	UA	E001	Lead, total	mg/L	02/11/21 - 06/13/23	10	60	CI around median	0.001	0.0330	Background	No Exceedance
AW-17	UA	E001	Lithium, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.0336	0.0710	Background	No Exceedance
AW-17	UA	E001	Mercury, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-17	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/13/23	10	30	CI around mean	0.00102	0.1	Standard	No Exceedance
AW-17	UA	E001	pH (field)	SU	02/11/21 - 06/13/23	10	0	CI around mean	6.6/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-17	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/13/23	10	0	CI around mean	2.59	9.60	Background	No Exceedance
AW-17	UA	E001	Selenium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-17	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	1	400	Standard	No Exceedance
AW-17	UA	E001	Thallium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-17	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	797	1,200	Standard	No Exceedance
AW-18	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-18	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.00334	0.0300	Background	No Exceedance
AW-18	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	0.962	2.07	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-18	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-18	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.614	2	Standard	No Exceedance
AW-18	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-18	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	70.9	200	Standard	No Exceedance
AW-18	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.004	0.1	Standard	No Exceedance
AW-18	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.002	0.0280	Background	No Exceedance
AW-18	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	40	CI around median	0.25	4.0	Standard	No Exceedance
AW-18	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	80	CI around median	0.001	0.0330	Background	No Exceedance
AW-18	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	-0.0455	0.0710	Background	No Exceedance
AW-18	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-18	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	-0.0197	0.1	Standard	No Exceedance
AW-18	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	6.7/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-18	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	2.08	9.60	Background	No Exceedance
AW-18	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.05	Standard	No Exceedance
AW-18	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	3.71	400	Standard	No Exceedance
AW-18	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-18	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	770	1,200	Standard	No Exceedance
AW-19	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-19	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0112	0.0300	Background	No Exceedance
AW-19	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	0.18	2.07	Background	No Exceedance
AW-19	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-19	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	2.47	2	Standard	Exceedance
AW-19	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-19	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	76.5	200	Standard	No Exceedance
AW-19	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.004	0.1	Standard	No Exceedance
AW-19	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.002	0.0280	Background	No Exceedance
AW-19	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.284	4.0	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-19	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	40	CI around geomean	0.00101	0.0330	Background	No Exceedance
AW-19	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	60	CI around median	0.02	0.0710	Background	No Exceedance
AW-19	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-19	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CI around geomean	0.00327	0.1	Standard	No Exceedance
AW-19	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	6.8/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-19	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	0.267	9.60	Background	No Exceedance
AW-19	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-19	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	43.4	400	Standard	No Exceedance
AW-19	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-19	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	542	1,200	Standard	No Exceedance
AW-21	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-21	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	10	CB around linear reg	0.00113	0.0300	Background	No Exceedance
AW-21	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0617	2.07	Background	No Exceedance
AW-21	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-21	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	10.3	2	Standard	Exceedance
AW-21	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-21	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	93	200	Standard	No Exceedance
AW-21	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-21	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-21	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	0.0598	4.0	Standard	No Exceedance
AW-21	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.0330	Background	No Exceedance
AW-21	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-21	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-21	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0157	0.1	Standard	No Exceedance
AW-21	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	7.0/7.5	6.3/9.0	Background/Standard	No Exceedance
AW-21	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	0.345	9.60	Background	No Exceedance
AW-21	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.05	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-21	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	230	400	Standard	No Exceedance
AW-21	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-21	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	641	1,200	Standard	No Exceedance

Notes:
Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

PMP = Potential Migration Pathway

UA = Uppermost Aquifer

mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

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

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

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AP07S	PMP	E002	Antimony, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AP07S	PMP	E002	Arsenic, total	mg/L	02/10/21 - 08/28/23	11	82	CI around median	0.001	0.0300	Background	No Exceedance
AP07S	PMP	E002	Barium, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	0.0778	2.07	Background	No Exceedance
AP07S	PMP	E002	Beryllium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AP07S	PMP	E002	Boron, total	mg/L	02/10/21 - 08/28/23	11	0	CB around linear reg	6.34	2	Standard	Exceedance
AP07S	PMP	E002	Cadmium, total	mg/L	02/10/21 - 08/28/23	11	82	CI around median	0.001	0.005	Standard	No Exceedance
AP07S	PMP	E002	Chloride, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	73.7	200	Standard	No Exceedance
AP07S	PMP	E002	Chromium, total	mg/L	02/10/21 - 08/28/23	11	64	CI around median	0.004	0.1	Standard	No Exceedance
AP07S	PMP	E002	Cobalt, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	0.00235	0.0280	Background	No Exceedance
AP07S	PMP	E002	Fluoride, total	mg/L	02/10/21 - 08/28/23	11	73	CB around T-S line	-1.69	4.0	Standard	No Exceedance
AP07S	PMP	E002	Lead, total	mg/L	02/10/21 - 08/28/23	11	54	CI around median	0.001	0.0330	Background	No Exceedance
AP07S	PMP	E002	Lithium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AP07S	PMP	E002	Mercury, total	mg/L	02/10/21 - 08/28/23	11	91	CI around median	0.0002	0.002	Standard	No Exceedance
AP07S	PMP	E002	Molybdenum, total	mg/L	02/10/21 - 08/28/23	11	46	CI around median	0.001	0.1	Standard	No Exceedance
AP07S	PMP	E002	pH (field)	SU	02/10/21 - 08/28/23	11	0	CI around mean	6.5/6.9	6.3/9.0	Background/Standard	No Exceedance
AP07S	PMP	E002	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 08/28/23	11	0	CI around mean	0.535	9.60	Background	No Exceedance
AP07S	PMP	E002	Selenium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AP07S	PMP	E002	Sulfate, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	204	400	Standard	No Exceedance
AP07S	PMP	E002	Thallium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AP07S	PMP	E002	Total Dissolved Solids	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	783	1,200	Standard	No Exceedance
AW-01	PMP	E002	Antimony, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-01	PMP	E002	Arsenic, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	-0.000517	0.0300	Background	No Exceedance
AW-01	PMP	E002	Barium, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.101	2.07	Background	No Exceedance
AW-01	PMP	E002	Beryllium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-01	PMP	E002	Boron, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	0.092	2	Standard	No Exceedance
AW-01	PMP	E002	Cadmium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-01	PMP	E002	Chloride, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	12	200	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-01	PMP	E002	Chromium, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.004	0.1	Standard	No Exceedance
AW-01	PMP	E002	Cobalt, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.0025	0.0280	Background	No Exceedance
AW-01	PMP	E002	Fluoride, total	mg/L	11/18/22 - 08/22/23	6	50	CI around mean	0.245	4.0	Standard	No Exceedance
AW-01	PMP	E002	Lead, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.001	0.0330	Background	No Exceedance
AW-01	PMP	E002	Lithium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-01	PMP	E002	Mercury, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-01	PMP	E002	Molybdenum, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.00212	0.1	Standard	No Exceedance
AW-01	PMP	E002	pH (field)	SU	11/18/22 - 08/22/23	6	0	CI around mean	6.6/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-01	PMP	E002	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 08/22/23	6	0	CI around mean	-0.466	9.60	Background	No Exceedance
AW-01	PMP	E002	Selenium, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.001	0.05	Standard	No Exceedance
AW-01	PMP	E002	Sulfate, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	52	400	Standard	No Exceedance
AW-01	PMP	E002	Thallium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-01	PMP	E002	Total Dissolved Solids	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	708	1,200	Standard	No Exceedance
AW-05	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	15	93	Most recent sample	0.003	0.006	Standard	No Exceedance
AW-05	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	15	0	CI around geomean	0.00393	0.0300	Background	No Exceedance
AW-05	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	15	0	CI around mean	0.142	2.07	Background	No Exceedance
AW-05	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	14	86	CI around median	0.001	0.004	Standard	No Exceedance
AW-05	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	16	0	CB around T-S line	2.16	2	Standard	Exceedance
AW-05	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	15	87	CI around median	0.001	0.005	Standard	No Exceedance
AW-05	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	16	0	CB around linear reg	-173	200	Standard	No Exceedance
AW-05	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	15	33	CI around geomean	0.00583	0.1	Standard	No Exceedance
AW-05	UA	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	15	20	CI around geomean	0.00348	0.0280	Background	No Exceedance
AW-05	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	16	50	CI around median	0.25	4.0	Standard	No Exceedance
AW-05	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	14	36	CI around geomean	0.00168	0.0330	Background	No Exceedance
AW-05	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	15	27	CI around geomean	0.0212	0.0710	Background	No Exceedance
AW-05	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	15	93	CI around median	0.0002	0.002	Standard	No Exceedance
AW-05	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	15	0	CI around mean	0.00206	0.1	Standard	No Exceedance

TABLE 2.
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-05	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	16	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-05	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	15	0	CI around mean	0.673	9.60	Background	No Exceedance
AW-05	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	15	47	CI around median	0.001	0.05	Standard	No Exceedance
AW-05	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	16	0	CI around geomean	288	400	Standard	No Exceedance
AW-05	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	14	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-05	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	16	0	CI around geomean	1,010	1,200	Standard	No Exceedance
AW-06	UA	E002	Antimony, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-06	UA	E002	Arsenic, total	mg/L	11/10/15 - 08/28/23	21	0	CI around geomean	0.00295	0.0300	Background	No Exceedance
AW-06	UA	E002	Barium, total	mg/L	11/10/15 - 08/28/23	21	0	CI around median	0.18	2.07	Background	No Exceedance
AW-06	UA	E002	Beryllium, total	mg/L	11/10/15 - 08/28/23	21	86	CI around median	0.001	0.004	Standard	No Exceedance
AW-06	UA	E002	Boron, total	mg/L	11/10/15 - 08/28/23	22	0	CB around linear reg	0.0495	2	Standard	No Exceedance
AW-06	UA	E002	Cadmium, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-06	UA	E002	Chloride, total	mg/L	11/10/15 - 08/28/23	22	0	CB around T-S line	-0.546	200	Standard	No Exceedance
AW-06	UA	E002	Chromium, total	mg/L	11/10/15 - 08/28/23	21	52	CI around median	0.004	0.1	Standard	No Exceedance
AW-06	UA	E002	Cobalt, total	mg/L	11/10/15 - 08/28/23	21	57	CI around median	0.002	0.0280	Background	No Exceedance
AW-06	UA	E002	Fluoride, total	mg/L	11/10/15 - 08/28/23	22	9	CB around T-S line	0.215	4.0	Standard	No Exceedance
AW-06	UA	E002	Lead, total	mg/L	11/10/15 - 08/28/23	21	38	CB around T-S line	-0.00334	0.0330	Background	No Exceedance
AW-06	UA	E002	Lithium, total	mg/L	11/10/15 - 08/28/23	21	43	CI around mean	0.0134	0.0710	Background	No Exceedance
AW-06	UA	E002	Mercury, total	mg/L	11/10/15 - 08/28/23	16	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-06	UA	E002	Molybdenum, total	mg/L	11/10/15 - 08/28/23	21	0	CI around mean	0.00481	0.1	Standard	No Exceedance
AW-06	UA	E002	pH (field)	SU	11/10/15 - 08/28/23	22	0	CI around median	7.1/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-06	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 08/28/23	21	0	CI around mean	0.679	9.60	Background	No Exceedance
AW-06	UA	E002	Selenium, total	mg/L	11/10/15 - 08/28/23	21	71	CI around median	0.001	0.05	Standard	No Exceedance
AW-06	UA	E002	Sulfate, total	mg/L	11/10/15 - 08/28/23	22	0	CB around linear reg	17.4	400	Standard	No Exceedance
AW-06	UA	E002	Thallium, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-06	UA	E002	Total Dissolved Solids	mg/L	11/10/15 - 08/28/23	22	0	CI around mean	507	1,200	Standard	No Exceedance
AW-09	UA	E002	Antimony, total	mg/L	11/10/15 - 08/29/23	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance

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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-09	UA	E002	Arsenic, total	mg/L	11/10/15 - 08/29/23	21	14	CI around mean	0.0101	0.0300	Background	No Exceedance
AW-09	UA	E002	Barium, total	mg/L	11/10/15 - 08/29/23	21	0	CI around geomean	0.278	2.07	Background	No Exceedance
AW-09	UA	E002	Beryllium, total	mg/L	11/10/15 - 08/29/23	21	81	CB around T-S line	-0.000697	0.004	Standard	No Exceedance
AW-09	UA	E002	Boron, total	mg/L	11/10/15 - 08/29/23	22	0	CB around linear reg	-0.155	2	Standard	No Exceedance
AW-09	UA	E002	Cadmium, total	mg/L	11/10/15 - 08/29/23	16	88	CI around median	0.001	0.005	Standard	No Exceedance
AW-09	UA	E002	Chloride, total	mg/L	11/10/15 - 08/29/23	22	0	CI around median	27	200	Standard	No Exceedance
AW-09	UA	E002	Chromium, total	mg/L	11/10/15 - 08/29/23	21	52	CB around T-S line	-0.0626	0.1	Standard	No Exceedance
AW-09	UA	E002	Cobalt, total	mg/L	11/10/15 - 08/29/23	21	5	CB around T-S line	-0.0344	0.0280	Background	No Exceedance
AW-09	UA	E002	Fluoride, total	mg/L	11/10/15 - 08/29/23	22	59	CB around T-S line	0.182	4.0	Standard	No Exceedance
AW-09	UA	E002	Lead, total	mg/L	11/10/15 - 08/29/23	21	43	CI around median	0.001	0.0330	Background	No Exceedance
AW-09	UA	E002	Lithium, total	mg/L	11/10/15 - 08/29/23	21	29	CB around T-S line	-0.0734	0.0710	Background	No Exceedance
AW-09	UA	E002	Mercury, total	mg/L	11/10/15 - 08/29/23	16	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-09	UA	E002	Molybdenum, total	mg/L	11/10/15 - 08/29/23	21	0	CI around mean	0.0137	0.1	Standard	No Exceedance
AW-09	UA	E002	pH (field)	SU	11/10/15 - 08/29/23	22	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-09	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 08/29/23	21	0	CI around median	0.729	9.60	Background	No Exceedance
AW-09	UA	E002	Selenium, total	mg/L	11/10/15 - 08/29/23	21	62	CB around T-S line	-0.00292	0.05	Standard	No Exceedance
AW-09	UA	E002	Sulfate, total	mg/L	11/10/15 - 08/29/23	22	50	CB around linear reg	-14.6	400	Standard	No Exceedance
AW-09	UA	E002	Thallium, total	mg/L	11/10/15 - 08/29/23	16	94	CI around median	0.001	0.002	Standard	No Exceedance
AW-09	UA	E002	Total Dissolved Solids	mg/L	11/10/15 - 08/29/23	22	0	CB around T-S line	731	1,200	Standard	No Exceedance
AW-10	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	17	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-10	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	22	0	CI around geomean	0.0078	0.0300	Background	No Exceedance
AW-10	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	22	0	CI around median	0.98	2.07	Background	No Exceedance
AW-10	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	22	77	CI around median	0.001	0.004	Standard	No Exceedance
AW-10	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	23	0	CI around mean	0.462	2	Standard	No Exceedance
AW-10	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.001	0.005	Standard	No Exceedance
AW-10	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	23	0	CI around mean	87.2	200	Standard	No Exceedance
AW-10	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	22	36	CI around median	0.004	0.1	Standard	No Exceedance

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ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-10	UA	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	22	4	CI around geomean	0.00352	0.0280	Background	No Exceedance
AW-10	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	23	96	CI around median	0.25	4.0	Standard	No Exceedance
AW-10	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	22	14	CI around geomean	0.00182	0.0330	Background	No Exceedance
AW-10	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	22	0	CB around T-S line	-0.0418	0.0710	Background	No Exceedance
AW-10	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-10	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	22	27	CB around T-S line	-0.000829	0.1	Standard	No Exceedance
AW-10	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	24	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-10	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	22	0	CI around mean	2.27	9.60	Background	No Exceedance
AW-10	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	22	64	CB around T-S line	-0.000131	0.05	Standard	No Exceedance
AW-10	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	23	78	CB around T-S line	0.0142	400	Standard	No Exceedance
AW-10	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.001	0.002	Standard	No Exceedance
AW-10	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	23	0	CB around T-S line	1,100	1,200	Standard	No Exceedance
AW-11	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-11	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	21	0	CI around mean	0.0095	0.0300	Background	No Exceedance
AW-11	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	21	0	CI around geomean	0.871	2.07	Background	No Exceedance
AW-11	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	21	76	CI around median	0.001	0.004	Standard	No Exceedance
AW-11	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	22	0	CI around geomean	0.22	2	Standard	No Exceedance
AW-11	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	16	81	CI around median	0.001	0.005	Standard	No Exceedance
AW-11	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	22	0	CI around mean	31.1	200	Standard	No Exceedance
AW-11	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	21	48	CB around T-S line	-0.0235	0.1	Standard	No Exceedance
AW-11	UA	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	21	24	CB around T-S line	-0.00755	0.0280	Background	No Exceedance
AW-11	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	22	86	CI around median	0.25	4.0	Standard	No Exceedance
AW-11	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	21	38	CB around T-S line	-0.0111	0.0330	Background	No Exceedance
AW-11	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	21	14	CB around T-S line	-0.0266	0.0710	Background	No Exceedance
AW-11	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-11	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	21	5	CB around linear reg	-0.00143	0.1	Standard	No Exceedance
AW-11	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	22	0	CI around median	6.9/7.2	6.3/9.0	Background/Standard	No Exceedance

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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-11	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	21	0	CI around geomean	1.5	9.60	Background	No Exceedance
AW-11	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	21	67	CI around median	0.001	0.05	Standard	No Exceedance
AW-11	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	22	64	CB around T-S line	0.11	400	Standard	No Exceedance
AW-11	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-11	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	22	0	CB around T-S line	954	1,200	Standard	No Exceedance
AW-14	UA	E002	Antimony, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.003	0.006	Standard	No Exceedance
AW-14	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	0.00692	0.0300	Background	No Exceedance
AW-14	UA	E002	Barium, total	mg/L	02/11/21 - 08/23/23	10	0	CB around linear reg	0.684	2.07	Background	No Exceedance
AW-14	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-14	UA	E002	Boron, total	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	0.171	2	Standard	No Exceedance
AW-14	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-14	UA	E002	Chloride, total	mg/L	02/11/21 - 08/23/23	10	0	CI around geomean	22.5	200	Standard	No Exceedance
AW-14	UA	E002	Chromium, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.004	0.1	Standard	No Exceedance
AW-14	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/23/23	10	10	CB around linear reg	-0.00363	0.0280	Background	No Exceedance
AW-14	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/23/23	10	80	CI around median	0.25	4.0	Standard	No Exceedance
AW-14	UA	E002	Lead, total	mg/L	02/11/21 - 08/23/23	10	70	CI around median	0.001	0.0330	Background	No Exceedance
AW-14	UA	E002	Lithium, total	mg/L	02/11/21 - 08/23/23	10	50	CI around median	0.02	0.0710	Background	No Exceedance
AW-14	UA	E002	Mercury, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-14	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/23/23	10	30	CI around geomean	0.00126	0.1	Standard	No Exceedance
AW-14	UA	E002	pH (field)	SU	02/11/21 - 08/23/23	10	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-14	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/23/23	10	0	CI around mean	1.91	9.60	Background	No Exceedance
AW-14	UA	E002	Selenium, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.001	0.05	Standard	No Exceedance
AW-14	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/23/23	10	20	CI around geomean	1.36	400	Standard	No Exceedance
AW-14	UA	E002	Thallium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-14	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	902	1,200	Standard	No Exceedance
AW-15	UA	E002	Antimony, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15	UA	E002	Arsenic, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.00175	0.0300	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-15	UA	E002	Barium, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	1.59	2.07	Background	No Exceedance
AW-15	UA	E002	Beryllium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-15	UA	E002	Boron, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.325	2	Standard	No Exceedance
AW-15	UA	E002	Cadmium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15	UA	E002	Chloride, total	mg/L	02/12/21 - 08/23/23	8	0	CB around linear reg	22.3	200	Standard	No Exceedance
AW-15	UA	E002	Chromium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-15	UA	E002	Cobalt, total	mg/L	02/12/21 - 08/23/23	8	88	CI around median	0.002	0.0280	Background	No Exceedance
AW-15	UA	E002	Fluoride, total	mg/L	02/12/21 - 08/23/23	8	75	CI around median	0.25	4.0	Standard	No Exceedance
AW-15	UA	E002	Lead, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-15	UA	E002	Lithium, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.0278	0.0710	Background	No Exceedance
AW-15	UA	E002	Mercury, total	mg/L	02/12/21 - 08/23/23	8	88	CI around median	0.0002	0.002	Standard	No Exceedance
AW-15	UA	E002	Molybdenum, total	mg/L	02/12/21 - 08/23/23	8	75	CI around median	0.001	0.1	Standard	No Exceedance
AW-15	UA	E002	pH (field)	SU	02/12/21 - 08/23/23	7	0	CI around mean	6.6/6.8	6.3/9.0	Background/Standard	No Exceedance
AW-15	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 08/23/23	8	0	CI around mean	2.58	9.60	Background	No Exceedance
AW-15	UA	E002	Selenium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-15	UA	E002	Sulfate, total	mg/L	02/12/21 - 08/23/23	8	88	Most recent sample	1	400	Standard	No Exceedance
AW-15	UA	E002	Thallium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15	UA	E002	Total Dissolved Solids	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	871	1,200	Standard	No Exceedance
AW-15S	PMP	E002	Antimony, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15S	PMP	E002	Arsenic, total	mg/L	02/12/21 - 08/23/23	11	54	CI around median	0.001	0.0300	Background	No Exceedance
AW-15S	PMP	E002	Barium, total	mg/L	02/12/21 - 08/23/23	11	0	CB around T-S line	-0.232	2.07	Background	No Exceedance
AW-15S	PMP	E002	Beryllium, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.001	0.004	Standard	No Exceedance
AW-15S	PMP	E002	Boron, total	mg/L	02/12/21 - 08/23/23	11	0	CI around mean	5.46	2	Standard	Exceedance
AW-15S	PMP	E002	Cadmium, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15S	PMP	E002	Chloride, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	20.9	200	Standard	No Exceedance
AW-15S	PMP	E002	Chromium, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.004	0.1	Standard	No Exceedance
AW-15S	PMP	E002	Cobalt, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.002	0.0280	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-15S	PMP	E002	Fluoride, total	mg/L	02/12/21 - 08/23/23	11	36	CI around median	0.25	4.0	Standard	No Exceedance
AW-15S	PMP	E002	Lead, total	mg/L	02/12/21 - 08/23/23	11	82	CI around median	0.001	0.0330	Background	No Exceedance
AW-15S	PMP	E002	Lithium, total	mg/L	02/12/21 - 08/23/23	11	82	CI around median	0.02	0.0710	Background	No Exceedance
AW-15S	PMP	E002	Mercury, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-15S	PMP	E002	Molybdenum, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	0.00194	0.1	Standard	No Exceedance
AW-15S	PMP	E002	pH (field)	SU	02/12/21 - 08/23/23	11	0	CI around mean	6.7/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-15S	PMP	E002	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 08/23/23	10	0	CI around mean	0.278	9.60	Background	No Exceedance
AW-15S	PMP	E002	Selenium, total	mg/L	02/12/21 - 08/23/23	11	46	CI around geomean	0.000977	0.05	Standard	No Exceedance
AW-15S	PMP	E002	Sulfate, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	503	400	Standard	Exceedance
AW-15S	PMP	E002	Thallium, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15S	PMP	E002	Total Dissolved Solids	mg/L	02/12/21 - 08/23/23	11	0	CI around mean	1,180	1,200	Standard	No Exceedance
AW-16	UA	E002	Antimony, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-16	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/21/23	11	18	CI around mean	0.00119	0.0300	Background	No Exceedance
AW-16	UA	E002	Barium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1.17	2.07	Background	No Exceedance
AW-16	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-16	UA	E002	Boron, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.466	2	Standard	No Exceedance
AW-16	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-16	UA	E002	Chloride, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	49.7	200	Standard	No Exceedance
AW-16	UA	E002	Chromium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-16	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-16	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.25	4.0	Standard	No Exceedance
AW-16	UA	E002	Lead, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-16	UA	E002	Lithium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around median	0.032	0.0710	Background	No Exceedance
AW-16	UA	E002	Mercury, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.0002	0.002	Standard	No Exceedance
AW-16	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.1	Standard	No Exceedance
AW-16	UA	E002	pH (field)	SU	02/11/21 - 08/21/23	11	0	CI around mean	6.6/6.9	6.3/9.0	Background/Standard	No Exceedance
AW-16	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/21/23	11	0	CI around mean	3.99	9.60	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
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EDWARDS POWER PLANT
ASH POND
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-16	UA	E002	Selenium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-16	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	1	400	Standard	No Exceedance
AW-16	UA	E002	Thallium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-16	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1,050	1,200	Standard	No Exceedance
AW-17	UA	E002	Antimony, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-17	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.00449	0.0300	Background	No Exceedance
AW-17	UA	E002	Barium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1.04	2.07	Background	No Exceedance
AW-17	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-17	UA	E002	Boron, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.413	2	Standard	No Exceedance
AW-17	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-17	UA	E002	Chloride, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	52	200	Standard	No Exceedance
AW-17	UA	E002	Chromium, total	mg/L	02/11/21 - 08/21/23	11	64	CI around median	0.004	0.1	Standard	No Exceedance
AW-17	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/21/23	11	0	CI around geomean	0.00214	0.0280	Background	No Exceedance
AW-17	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.25	4.0	Standard	No Exceedance
AW-17	UA	E002	Lead, total	mg/L	02/11/21 - 08/21/23	11	64	CI around median	0.001	0.0330	Background	No Exceedance
AW-17	UA	E002	Lithium, total	mg/L	02/11/21 - 08/21/23	11	0	CB around linear reg	-0.00453	0.0710	Background	No Exceedance
AW-17	UA	E002	Mercury, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.0002	0.002	Standard	No Exceedance
AW-17	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/21/23	11	36	CB around linear reg	-0.000279	0.1	Standard	No Exceedance
AW-17	UA	E002	pH (field)	SU	02/11/21 - 08/21/23	11	0	CI around median	6.6/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-17	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/21/23	11	0	CI around mean	2.59	9.60	Background	No Exceedance
AW-17	UA	E002	Selenium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-17	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	1	400	Standard	No Exceedance
AW-17	UA	E002	Thallium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-17	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	811	1,200	Standard	No Exceedance
AW-18	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-18	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.00319	0.0300	Background	No Exceedance
AW-18	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	0.983	2.07	Background	No Exceedance

TABLE 2.
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-18	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-18	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.683	2	Standard	No Exceedance
AW-18	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-18	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	77.2	200	Standard	No Exceedance
AW-18	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.004	0.1	Standard	No Exceedance
AW-18	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.002	0.0280	Background	No Exceedance
AW-18	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	46	CI around median	0.25	4.0	Standard	No Exceedance
AW-18	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	82	CI around median	0.001	0.0330	Background	No Exceedance
AW-18	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	-0.032	0.0710	Background	No Exceedance
AW-18	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-18	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	-0.0148	0.1	Standard	No Exceedance
AW-18	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.7/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-18	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	2.11	9.60	Background	No Exceedance
AW-18	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.001	0.05	Standard	No Exceedance
AW-18	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	4.08	400	Standard	No Exceedance
AW-18	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-18	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	779	1,200	Standard	No Exceedance
AW-19	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-19	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0113	0.0300	Background	No Exceedance
AW-19	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	0.18	2.07	Background	No Exceedance
AW-19	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-19	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	2.5	2	Standard	Exceedance
AW-19	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-19	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	76.8	200	Standard	No Exceedance
AW-19	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.004	0.1	Standard	No Exceedance
AW-19	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.002	0.0280	Background	No Exceedance
AW-19	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.288	4.0	Standard	No Exceedance

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BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-19	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	46	CI around median	0.001	0.0330	Background	No Exceedance
AW-19	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	64	CI around median	0.02	0.0710	Background	No Exceedance
AW-19	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-19	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	0.0034	0.1	Standard	No Exceedance
AW-19	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.7/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-19	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	0.36	9.60	Background	No Exceedance
AW-19	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-19	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	47.7	400	Standard	No Exceedance
AW-19	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-19	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	549	1,200	Standard	No Exceedance
AW-21	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-21	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	18	CI around mean	0.00102	0.0300	Background	No Exceedance
AW-21	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0609	2.07	Background	No Exceedance
AW-21	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-21	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	10.5	2	Standard	Exceedance
AW-21	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-21	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	83	200	Standard	No Exceedance
AW-21	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-21	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-21	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	0.107	4.0	Standard	No Exceedance
AW-21	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.001	0.0330	Background	No Exceedance
AW-21	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-21	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-21	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0162	0.1	Standard	No Exceedance
AW-21	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.9/7.5	6.3/9.0	Background/Standard	No Exceedance
AW-21	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	0.391	9.60	Background	No Exceedance
AW-21	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	82	CI around median	0.001	0.05	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-21	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	230	400	Standard	No Exceedance
AW-21	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-21	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	645	1,200	Standard	No Exceedance

Notes:
Compliance Result:

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

Exceedance: The statistical result exceeded the GWPS.

HSU = hydrostratigraphic unit:

PMP = Potential Migration Pathway

UA = Uppermost Aquifer

mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

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

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

TABLE 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
APW-01	Supplemental	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Arsenic, total	0.00790	mg/L
APW-01	Supplemental	E001	06/14/2023	Barium, total	0.0640	mg/L
APW-01	Supplemental	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Boron, total	1.10 J+	mg/L
APW-01	Supplemental	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Calcium, total	170	mg/L
APW-01	Supplemental	E001	06/14/2023	Chloride, total	120	mg/L
APW-01	Supplemental	E001	06/14/2023	Chromium, total	0.0038 J	mg/L
APW-01	Supplemental	E001	06/14/2023	Cobalt, total	0.00049 J	mg/L
APW-01	Supplemental	E001	06/14/2023	Dissolved Oxygen	0.150	mg/L
APW-01	Supplemental	E001	06/14/2023	Fluoride, total	0.174 J	mg/L
APW-01	Supplemental	E001	06/14/2023	Lead, total	0.00022 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Lithium, total	0.0077 J	mg/L
APW-01	Supplemental	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Molybdenum, total	0.00130	mg/L
APW-01	Supplemental	E001	06/14/2023	Oxidation Reduction Potential	-197	mV
APW-01	Supplemental	E001	06/14/2023	pH (field)	7.0	SU
APW-01	Supplemental	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Specific Conductance @ 25C (field)	1,479	micromhos/cm
APW-01	Supplemental	E001	06/14/2023	Sulfate, total	290	mg/L
APW-01	Supplemental	E001	06/14/2023	Temperature	16.9	degrees C
APW-01	Supplemental	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
APW-01	Supplemental	E001	06/14/2023	Total Dissolved Solids	1,000 J+	mg/L
APW-01	Supplemental	E001	06/14/2023	Turbidity, field	161	NTU
AW-20	Supplemental	E001	06/15/2023	Antimony, total	0.00043 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Arsenic, total	0.0130	mg/L
AW-20	Supplemental	E001	06/15/2023	Barium, total	0.140	mg/L
AW-20	Supplemental	E001	06/15/2023	Beryllium, total	0.00059 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Boron, total	3.10	mg/L
AW-20	Supplemental	E001	06/15/2023	Cadmium, total	0.00074 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Calcium, total	160	mg/L
AW-20	Supplemental	E001	06/15/2023	Chloride, total	85.0	mg/L
AW-20	Supplemental	E001	06/15/2023	Chromium, total	0.0028 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Cobalt, total	0.00200	mg/L
AW-20	Supplemental	E001	06/15/2023	Dissolved Oxygen	1.90	mg/L
AW-20	Supplemental	E001	06/15/2023	Fluoride, total	0.242 J	mg/L
AW-20	Supplemental	E001	06/15/2023	Lead, total	0.00140	mg/L
AW-20	Supplemental	E001	06/15/2023	Lithium, total	0.014 J	mg/L
AW-20	Supplemental	E001	06/15/2023	Mercury, total	0.00014 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Molybdenum, total	0.00270	mg/L
AW-20	Supplemental	E001	06/15/2023	Oxidation Reduction Potential	-178	mV
AW-20	Supplemental	E001	06/15/2023	pH (field)	7.0	SU
AW-20	Supplemental	E001	06/15/2023	Selenium, total	0.00074 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Specific Conductance @ 25C (field)	1,344	micromhos/cm
AW-20	Supplemental	E001	06/15/2023	Sulfate, total	57.0	mg/L

TABLE 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-20	Supplemental	E001	06/15/2023	Temperature	16	degrees C
AW-20	Supplemental	E001	06/15/2023	Thallium, total	0.00038 U	mg/L
AW-20	Supplemental	E001	06/15/2023	Total Dissolved Solids	840	mg/L
AW-20	Supplemental	E001	06/15/2023	Turbidity, field	44.9	NTU
AW-23	Supplemental	E001	06/14/2023	Antimony, total	0.00043 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Arsenic, total	0.00085 J	mg/L
AW-23	Supplemental	E001	06/14/2023	Barium, total	0.0310 J+	mg/L
AW-23	Supplemental	E001	06/14/2023	Beryllium, total	0.00059 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Boron, total	0.490 J+	mg/L
AW-23	Supplemental	E001	06/14/2023	Cadmium, total	0.00074 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Calcium, total	140	mg/L
AW-23	Supplemental	E001	06/14/2023	Chloride, total	41.0	mg/L
AW-23	Supplemental	E001	06/14/2023	Chromium, total	0.0028 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Cobalt, total	0.00076 J	mg/L
AW-23	Supplemental	E001	06/14/2023	Dissolved Oxygen	0.270	mg/L
AW-23	Supplemental	E001	06/14/2023	Fluoride, total	0.242 J	mg/L
AW-23	Supplemental	E001	06/14/2023	Lead, total	0.00022 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Lithium, total	0.01 J	mg/L
AW-23	Supplemental	E001	06/14/2023	Mercury, total	0.00014 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Molybdenum, total	0.00092 J	mg/L
AW-23	Supplemental	E001	06/14/2023	Oxidation Reduction Potential	-32.5	mV
AW-23	Supplemental	E001	06/14/2023	pH (field)	6.9	SU
AW-23	Supplemental	E001	06/14/2023	Selenium, total	0.00074 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Specific Conductance @ 25C (field)	1,113	micromhos/cm
AW-23	Supplemental	E001	06/14/2023	Sulfate, total	200	mg/L
AW-23	Supplemental	E001	06/14/2023	Temperature	16.1	degrees C
AW-23	Supplemental	E001	06/14/2023	Thallium, total	0.00038 U	mg/L
AW-23	Supplemental	E001	06/14/2023	Total Dissolved Solids	790 J+	mg/L
AW-23	Supplemental	E001	06/14/2023	Turbidity, field	35.3	NTU
EMW-05	Supplemental	E001	06/15/2023	Antimony, total	0.00043 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Arsenic, total	0.00110	mg/L
EMW-05	Supplemental	E001	06/15/2023	Barium, total	0.0700	mg/L
EMW-05	Supplemental	E001	06/15/2023	Beryllium, total	0.00059 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Boron, total	0.750	mg/L
EMW-05	Supplemental	E001	06/15/2023	Cadmium, total	0.00074 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Calcium, total	190	mg/L
EMW-05	Supplemental	E001	06/15/2023	Chloride, total	23.0	mg/L
EMW-05	Supplemental	E001	06/15/2023	Chromium, total	0.0028 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Cobalt, total	0.00048 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Dissolved Oxygen	3.84	mg/L
EMW-05	Supplemental	E001	06/15/2023	Fluoride, total	0.2 J	mg/L
EMW-05	Supplemental	E001	06/15/2023	Lead, total	0.00027 J	mg/L
EMW-05	Supplemental	E001	06/15/2023	Lithium, total	0.0063 J	mg/L
EMW-05	Supplemental	E001	06/15/2023	Mercury, total	0.00014 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Molybdenum, total	0.00200	mg/L
EMW-05	Supplemental	E001	06/15/2023	Oxidation Reduction Potential	-76.6	mV

TABLE 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
EMW-05	Supplemental	E001	06/15/2023	pH (field)	7.0	SU
EMW-05	Supplemental	E001	06/15/2023	Selenium, total	0.00074 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Specific Conductance @ 25C (field)	1,336	micromhos/cm
EMW-05	Supplemental	E001	06/15/2023	Sulfate, total	120	mg/L
EMW-05	Supplemental	E001	06/15/2023	Temperature	13.3	degrees C
EMW-05	Supplemental	E001	06/15/2023	Thallium, total	0.00038 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Total Dissolved Solids	0 U	mg/L
EMW-05	Supplemental	E001	06/15/2023	Turbidity, field	3.09	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 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Event	Date	Parameter	Result	Unit
APW-01	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
APW-01	E002	08/23/2023	Arsenic, total	0.00650	mg/L
APW-01	E002	08/23/2023	Barium, total	0.0690	mg/L
APW-01	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
APW-01	E002	08/23/2023	Boron, total	1.00	mg/L
APW-01	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
APW-01	E002	08/23/2023	Calcium, total	170	mg/L
APW-01	E002	08/23/2023	Chloride, total	130	mg/L
APW-01	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
APW-01	E002	08/23/2023	Cobalt, total	0.00096 J	mg/L
APW-01	E002	08/23/2023	Dissolved Oxygen	2.80	mg/L
APW-01	E002	08/23/2023	Fluoride, total	0.179 J	mg/L
APW-01	E002	08/23/2023	Lead, total	0.00084 J	mg/L
APW-01	E002	08/23/2023	Lithium, total	0.0096 J	mg/L
APW-01	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
APW-01	E002	08/23/2023	Molybdenum, total	0.00130	mg/L
APW-01	E002	08/23/2023	Oxidation Reduction Potential	-83.0	mV
APW-01	E002	08/23/2023	pH (field)	6.5	SU
APW-01	E002	08/23/2023	Radium 226 + Radium 228, total	0.737	pCi/L
APW-01	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
APW-01	E002	08/23/2023	Specific Conductance @ 25C (field)	1,250	micromhos/cm
APW-01	E002	08/23/2023	Sulfate, total	300	mg/L
APW-01	E002	08/23/2023	Temperature	25.6	degrees C
APW-01	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
APW-01	E002	08/23/2023	Total Dissolved Solids	1,000	mg/L
APW-01	E002	08/23/2023	Turbidity, field	16.9	NTU
AW-20	E002	08/22/2023	Antimony, total	0.00043 U	mg/L
AW-20	E002	08/22/2023	Arsenic, total	0.0110	mg/L
AW-20	E002	08/22/2023	Barium, total	0.140	mg/L
AW-20	E002	08/22/2023	Beryllium, total	0.00059 U	mg/L
AW-20	E002	08/22/2023	Boron, total	3.40	mg/L
AW-20	E002	08/22/2023	Cadmium, total	0.00074 U	mg/L
AW-20	E002	08/22/2023	Calcium, total	160	mg/L
AW-20	E002	08/22/2023	Chloride, total	88.0	mg/L
AW-20	E002	08/22/2023	Chromium, total	0.0028 U	mg/L
AW-20	E002	08/22/2023	Cobalt, total	0.0012 J	mg/L
AW-20	E002	08/22/2023	Dissolved Oxygen	0.540	mg/L
AW-20	E002	08/22/2023	Fluoride, total	0.285	mg/L
AW-20	E002	08/22/2023	Lead, total	0.00022 U	mg/L
AW-20	E002	08/22/2023	Lithium, total	0.014 J	mg/L
AW-20	E002	08/22/2023	Mercury, total	0.00014 U	mg/L
AW-20	E002	08/22/2023	Molybdenum, total	0.00240	mg/L
AW-20	E002	08/22/2023	Oxidation Reduction Potential	-60.0	mV
AW-20	E002	08/22/2023	pH (field)	6.2	SU
AW-20	E002	08/22/2023	Radium 226 + Radium 228, total	2.04	pCi/L
AW-20	E002	08/22/2023	Selenium, total	0.00074 U	mg/L

TABLE 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Event	Date	Parameter	Result	Unit
AW-20	E002	08/22/2023	Specific Conductance @ 25C (field)	1,310	micromhos/cm
AW-20	E002	08/22/2023	Sulfate, total	59.0	mg/L
AW-20	E002	08/22/2023	Temperature	17.4	degrees C
AW-20	E002	08/22/2023	Thallium, total	0.00038 U	mg/L
AW-20	E002	08/22/2023	Total Dissolved Solids	850	mg/L
AW-20	E002	08/22/2023	Turbidity, field	18.6	NTU
AW-23	E002	08/23/2023	Antimony, total	0.00043 U	mg/L
AW-23	E002	08/23/2023	Arsenic, total	0.00069 U	mg/L
AW-23	E002	08/23/2023	Barium, total	0.0450	mg/L
AW-23	E002	08/23/2023	Beryllium, total	0.00059 U	mg/L
AW-23	E002	08/23/2023	Boron, total	0.550	mg/L
AW-23	E002	08/23/2023	Cadmium, total	0.00074 U	mg/L
AW-23	E002	08/23/2023	Calcium, total	140	mg/L
AW-23	E002	08/23/2023	Chloride, total	49.0	mg/L
AW-23	E002	08/23/2023	Chromium, total	0.0028 U	mg/L
AW-23	E002	08/23/2023	Cobalt, total	0.0012 J	mg/L
AW-23	E002	08/23/2023	Dissolved Oxygen	0.440	mg/L
AW-23	E002	08/23/2023	Fluoride, total	0.223 J	mg/L
AW-23	E002	08/23/2023	Lead, total	0.00035 J	mg/L
AW-23	E002	08/23/2023	Lithium, total	0.013 J	mg/L
AW-23	E002	08/23/2023	Mercury, total	0.00014 U	mg/L
AW-23	E002	08/23/2023	Molybdenum, total	0.00074 U	mg/L
AW-23	E002	08/23/2023	Oxidation Reduction Potential	-34.0	mV
AW-23	E002	08/23/2023	pH (field)	6.8	SU
AW-23	E002	08/23/2023	Radium 226 + Radium 228, total	0.803	pCi/L
AW-23	E002	08/23/2023	Selenium, total	0.00074 U	mg/L
AW-23	E002	08/23/2023	Specific Conductance @ 25C (field)	1,260	micromhos/cm
AW-23	E002	08/23/2023	Sulfate, total	230	mg/L
AW-23	E002	08/23/2023	Temperature	21.2	degrees C
AW-23	E002	08/23/2023	Thallium, total	0.00038 U	mg/L
AW-23	E002	08/23/2023	Total Dissolved Solids	730	mg/L
AW-23	E002	08/23/2023	Turbidity, field	133	NTU
EMW-05	E002	08/28/2023	Antimony, total	0.00043 U	mg/L
EMW-05	E002	08/28/2023	Arsenic, total	0.00079 J	mg/L
EMW-05	E002	08/28/2023	Barium, total	0.0620	mg/L
EMW-05	E002	08/28/2023	Beryllium, total	0.00059 U	mg/L
EMW-05	E002	08/28/2023	Boron, total	1.00	mg/L
EMW-05	E002	08/28/2023	Cadmium, total	0.00074 U	mg/L
EMW-05	E002	08/28/2023	Calcium, total	190	mg/L
EMW-05	E002	08/28/2023	Chloride, total	18.0	mg/L
EMW-05	E002	08/28/2023	Chromium, total	0.0028 U	mg/L
EMW-05	E002	08/28/2023	Cobalt, total	0.00049 J	mg/L
EMW-05	E002	08/28/2023	Dissolved Oxygen	1.00	mg/L
EMW-05	E002	08/28/2023	Fluoride, total	0.206 J	mg/L
EMW-05	E002	08/28/2023	Lead, total	0.00042 J	mg/L
EMW-05	E002	08/28/2023	Lithium, total	0.0087 J	mg/L

TABLE 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Event	Date	Parameter	Result	Unit
EMW-05	E002	08/28/2023	Mercury, total	0.00014 U	mg/L
EMW-05	E002	08/28/2023	Molybdenum, total	0.00130 J+	mg/L
EMW-05	E002	08/28/2023	Oxidation Reduction Potential	52.0	mV
EMW-05	E002	08/28/2023	pH (field)	6.8	SU
EMW-05	E002	08/28/2023	Radium 226 + Radium 228, total	0.499	pCi/L
EMW-05	E002	08/28/2023	Selenium, total	0.00074 U	mg/L
EMW-05	E002	08/28/2023	Specific Conductance @ 25C (field)	1,340	micromhos/cm
EMW-05	E002	08/28/2023	Sulfate, total	130	mg/L
EMW-05	E002	08/28/2023	Temperature	19.4	degrees C
EMW-05	E002	08/28/2023	Thallium, total	0.00038 U	mg/L
EMW-05	E002	08/28/2023	Total Dissolved Solids	900	mg/L
EMW-05	E002	08/28/2023	Turbidity, field	70.5	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 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Event	Date	Parameter	Result	Unit
APW-01	E003	11/06/2023	Antimony, total	0.00043 U	mg/L
APW-01	E003	11/06/2023	Arsenic, total	0.0140	mg/L
APW-01	E003	11/06/2023	Barium, total	0.0850	mg/L
APW-01	E003	11/06/2023	Beryllium, total	0.00059 U	mg/L
APW-01	E003	11/06/2023	Boron, total	1.10	mg/L
APW-01	E003	11/06/2023	Cadmium, total	0.00074 U	mg/L
APW-01	E003	11/06/2023	Calcium, total	170	mg/L
APW-01	E003	11/06/2023	Chloride, total	120	mg/L
APW-01	E003	11/06/2023	Chromium, total	0.00600	mg/L
APW-01	E003	11/06/2023	Cobalt, total	0.00310	mg/L
APW-01	E003	11/06/2023	Dissolved Oxygen	2.70	mg/L
APW-01	E003	11/06/2023	Fluoride, total	0.147 J	mg/L
APW-01	E003	11/06/2023	Lead, total	0.00380 J+	mg/L
APW-01	E003	11/06/2023	Lithium, total	0.012 J	mg/L
APW-01	E003	11/06/2023	Mercury, total	0.00014 U	mg/L
APW-01	E003	11/06/2023	Molybdenum, total	0.00190	mg/L
APW-01	E003	11/06/2023	Oxidation Reduction Potential	-97.0	mV
APW-01	E003	11/06/2023	pH (field)	6.9	SU
APW-01	E003	11/06/2023	Radium 226 + Radium 228, total	3.70 J+	pCi/L
APW-01	E003	11/06/2023	Selenium, total	0.00062 J	mg/L
APW-01	E003	11/06/2023	Specific Conductance @ 25C (field)	1,420	micromhos/cm
APW-01	E003	11/06/2023	Sulfate, total	290	mg/L
APW-01	E003	11/06/2023	Temperature	16.2	degrees C
APW-01	E003	11/06/2023	Thallium, total	0.00038 U	mg/L
APW-01	E003	11/06/2023	Total Dissolved Solids	980	mg/L
APW-01	E003	11/06/2023	Turbidity, field	490	NTU
AW-20	E003	11/01/2023	Antimony, total	0.00043 U	mg/L
AW-20	E003	11/01/2023	Arsenic, total	0.0120	mg/L
AW-20	E003	11/01/2023	Barium, total	0.140	mg/L
AW-20	E003	11/01/2023	Beryllium, total	0.00059 U	mg/L
AW-20	E003	11/01/2023	Boron, total	3.10	mg/L
AW-20	E003	11/01/2023	Cadmium, total	0.00074 U	mg/L
AW-20	E003	11/01/2023	Calcium, total	150	mg/L
AW-20	E003	11/01/2023	Chloride, total	87.0	mg/L
AW-20	E003	11/01/2023	Chromium, total	0.0028 U	mg/L
AW-20	E003	11/01/2023	Cobalt, total	0.0019 J	mg/L
AW-20	E003	11/01/2023	Dissolved Oxygen	0.800	mg/L
AW-20	E003	11/01/2023	Fluoride, total	0.204 J	mg/L
AW-20	E003	11/01/2023	Lead, total	0.00130 J+	mg/L
AW-20	E003	11/01/2023	Lithium, total	0.016 J	mg/L
AW-20	E003	11/01/2023	Mercury, total	0.00014 U	mg/L
AW-20	E003	11/01/2023	Molybdenum, total	0.00230	mg/L
AW-20	E003	11/01/2023	Oxidation Reduction Potential	-77.0	mV
AW-20	E003	11/01/2023	pH (field)	7.0	SU
AW-20	E003	11/01/2023	Radium 226 + Radium 228, total	1.72 J+	pCi/L
AW-20	E003	11/01/2023	Selenium, total	0.00074 U	mg/L

TABLE 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Event	Date	Parameter	Result	Unit
AW-20	E003	11/01/2023	Specific Conductance @ 25C (field)	1,390	micromhos/cm
AW-20	E003	11/01/2023	Sulfate, total	55.0	mg/L
AW-20	E003	11/01/2023	Temperature	14.4	degrees C
AW-20	E003	11/01/2023	Thallium, total	0.00038 U	mg/L
AW-20	E003	11/01/2023	Total Dissolved Solids	900	mg/L
AW-20	E003	11/01/2023	Turbidity, field	94.2	NTU
AW-23	E003	11/03/2023	Antimony, total	0.00043 U	mg/L
AW-23	E003	11/03/2023	Arsenic, total	0.00250	mg/L
AW-23	E003	11/03/2023	Barium, total	0.310	mg/L
AW-23	E003	11/03/2023	Beryllium, total	0.00110	mg/L
AW-23	E003	11/03/2023	Boron, total	0.600 J+	mg/L
AW-23	E003	11/03/2023	Cadmium, total	0.00074 U	mg/L
AW-23	E003	11/03/2023	Calcium, total	140	mg/L
AW-23	E003	11/03/2023	Chloride, total	35.0	mg/L
AW-23	E003	11/03/2023	Chromium, total	0.0280	mg/L
AW-23	E003	11/03/2023	Cobalt, total	0.0190	mg/L
AW-23	E003	11/03/2023	Dissolved Oxygen	2.10	mg/L
AW-23	E003	11/03/2023	Fluoride, total	0.22 J	mg/L
AW-23	E003	11/03/2023	Lead, total	0.00960	mg/L
AW-23	E003	11/03/2023	Lithium, total	0.0380	mg/L
AW-23	E003	11/03/2023	Mercury, total	0.00014 U	mg/L
AW-23	E003	11/03/2023	Molybdenum, total	0.00098 J	mg/L
AW-23	E003	11/03/2023	Oxidation Reduction Potential	108	mV
AW-23	E003	11/03/2023	pH (field)	6.8	SU
AW-23	E003	11/03/2023	Radium 226 + Radium 228, total	1.85 J+	pCi/L
AW-23	E003	11/03/2023	Selenium, total	0.00096 J	mg/L
AW-23	E003	11/03/2023	Specific Conductance @ 25C (field)	1,090	micromhos/cm
AW-23	E003	11/03/2023	Sulfate, total	180	mg/L
AW-23	E003	11/03/2023	Temperature	15.2	degrees C
AW-23	E003	11/03/2023	Thallium, total	0.00038 U	mg/L
AW-23	E003	11/03/2023	Total Dissolved Solids	720	mg/L
AW-23	E003	11/03/2023	Turbidity, field	1,000	NTU
EMW-05	E003	11/03/2023	Antimony, total	0.00043 U	mg/L
EMW-05	E003	11/03/2023	Arsenic, total	0.00069 U	mg/L
EMW-05	E003	11/03/2023	Barium, total	0.0530	mg/L
EMW-05	E003	11/03/2023	Beryllium, total	0.00059 U	mg/L
EMW-05	E003	11/03/2023	Boron, total	1.50	mg/L
EMW-05	E003	11/03/2023	Cadmium, total	0.00074 U	mg/L
EMW-05	E003	11/03/2023	Calcium, total	180	mg/L
EMW-05	E003	11/03/2023	Chloride, total	20.0	mg/L
EMW-05	E003	11/03/2023	Chromium, total	0.0028 U	mg/L
EMW-05	E003	11/03/2023	Cobalt, total	0.00048 U	mg/L
EMW-05	E003	11/03/2023	Dissolved Oxygen	0.0100	mg/L
EMW-05	E003	11/03/2023	Fluoride, total	0.108 J	mg/L
EMW-05	E003	11/03/2023	Lead, total	0.00022 U	mg/L
EMW-05	E003	11/03/2023	Lithium, total	0.0058 J	mg/L

TABLE 3.
SUPPLEMENTAL FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 4, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Event	Date	Parameter	Result	Unit
EMW-05	E003	11/03/2023	Mercury, total	0.00014 U	mg/L
EMW-05	E003	11/03/2023	Molybdenum, total	0.00100	mg/L
EMW-05	E003	11/03/2023	Oxidation Reduction Potential	27.0	mV
EMW-05	E003	11/03/2023	pH (field)	7.1	SU
EMW-05	E003	11/03/2023	Radium 226 + Radium 228, total	0.519 J+	pCi/L
EMW-05	E003	11/03/2023	Selenium, total	0.00013 U	mg/L
EMW-05	E003	11/03/2023	Specific Conductance @ 25C (field)	1,230	micromhos/cm
EMW-05	E003	11/03/2023	Sulfate, total	130	mg/L
EMW-05	E003	11/03/2023	Temperature	13.0	degrees C
EMW-05	E003	11/03/2023	Thallium, total	0.00038 U	mg/L
EMW-05	E003	11/03/2023	Total Dissolved Solids	860	mg/L
EMW-05	E003	11/03/2023	Turbidity, field	32.8	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 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
APW-01	UA	E001	Antimony, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW-01	UA	E001	Arsenic, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.00113	0.0300	Background	No Exceedance
APW-01	UA	E001	Barium, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.00882	2.07	Background	No Exceedance
APW-01	UA	E001	Beryllium, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW-01	UA	E001	Boron, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.406	2	Standard	No Exceedance
APW-01	UA	E001	Cadmium, total	mg/L	06/17/21 - 06/14/23	4	75	CI around median (Last Sample, n<7)	0.001	0.005	Standard	No Exceedance
APW-01	UA	E001	Chloride, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	78.8	200	Standard	No Exceedance
APW-01	UA	E001	Chromium, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00291	0.1	Standard	No Exceedance
APW-01	UA	E001	Cobalt, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00237	0.0280	Background	No Exceedance
APW-01	UA	E001	Fluoride, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.209	4.0	Standard	No Exceedance
APW-01	UA	E001	Lead, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00645	0.0330	Background	No Exceedance
APW-01	UA	E001	Lithium, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.0132	0.0710	Background	No Exceedance
APW-01	UA	E001	Mercury, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW-01	UA	E001	Molybdenum, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.000863	0.1	Standard	No Exceedance
APW-01	UA	E001	pH (field)	SU	06/17/21 - 06/14/23	4	0	CI around mean	6.7/7.1	6.3/9.0	Background/Standard	No Exceedance
APW-01	UA	E001	Selenium, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.000538	0.05	Standard	No Exceedance
APW-01	UA	E001	Sulfate, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	271	400	Standard	No Exceedance
APW-01	UA	E001	Thallium, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW-01	UA	E001	Total Dissolved Solids	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	663	1,200	Standard	No Exceedance
AW-20	UA	E001	Antimony, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-20	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.0111	0.0300	Background	No Exceedance
AW-20	UA	E001	Barium, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.125	2.07	Background	No Exceedance
AW-20	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-20	UA	E001	Boron, total	mg/L	02/11/21 - 06/15/23	6	0	CI around median (Last Sample, n<7)	3.1	2	Standard	Exceedance
AW-20	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-20	UA	E001	Chloride, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	85.1	200	Standard	No Exceedance
AW-20	UA	E001	Chromium, total	mg/L	02/11/21 - 06/15/23	6	83	CI around median (Last Sample, n<7)	0.004	0.1	Standard	No Exceedance

TABLE 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-20	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/15/23	6	50	CI around median (Last Sample, n<7)	0.002	0.0280	Background	No Exceedance
AW-20	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/15/23	6	17	CI around mean	0.244	4.0	Standard	No Exceedance
AW-20	UA	E001	Lead, total	mg/L	02/11/21 - 06/15/23	6	67	CI around median (Last Sample, n<7)	0.0014	0.0330	Background	No Exceedance
AW-20	UA	E001	Lithium, total	mg/L	02/11/21 - 06/15/23	6	67	CI around median (Last Sample, n<7)	0.02	0.0710	Background	No Exceedance
AW-20	UA	E001	Mercury, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-20	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.00229	0.1	Standard	No Exceedance
AW-20	UA	E001	pH (field)	SU	02/11/21 - 06/15/23	6	0	CI around mean	6.5/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-20	UA	E001	Selenium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-20	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	36.7	400	Standard	No Exceedance
AW-20	UA	E001	Thallium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-20	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	721	1,200	Standard	No Exceedance
AW-23	UA	E001	Antimony, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-23	UA	E001	Arsenic, total	mg/L	11/21/22 - 06/14/23	4	75	CI around median (Last Sample, n<7)	0.001	0.0300	Background	No Exceedance
AW-23	UA	E001	Barium, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	0.0233	2.07	Background	No Exceedance
AW-23	UA	E001	Beryllium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-23	UA	E001	Boron, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	0.416	2	Standard	No Exceedance
AW-23	UA	E001	Cadmium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-23	UA	E001	Chloride, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	35.4	200	Standard	No Exceedance
AW-23	UA	E001	Chromium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-23	UA	E001	Cobalt, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-23	UA	E001	Fluoride, total	mg/L	11/21/22 - 06/14/23	4	25	CI around mean	0.222	4.0	Standard	No Exceedance
AW-23	UA	E001	Lead, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-23	UA	E001	Lithium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-23	UA	E001	Mercury, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-23	UA	E001	Molybdenum, total	mg/L	11/21/22 - 06/14/23	4	50	CI around mean	0.000538	0.1	Standard	No Exceedance
AW-23	UA	E001	pH (field)	SU	11/21/22 - 06/14/23	4	0	CI around mean	6.5/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-23	UA	E001	Selenium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.05	Standard	No Exceedance

TABLE 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-23	UA	E001	Sulfate, total	mg/L	11/21/22 - 06/14/23	4	0	CI around median (Last Sample, n<7)	200	400	Standard	No Exceedance
AW-23	UA	E001	Thallium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-23	UA	E001	Total Dissolved Solids	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	686	1,200	Standard	No Exceedance
EMW-05	UA	E001	Antimony, total	mg/L	11/18/22 - 06/15/23	4	100	All ND - Last	0.003	0.006	Standard	No Exceedance
EMW-05	UA	E001	Arsenic, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	0.0011	0.0300	Background	No Exceedance
EMW-05	UA	E001	Barium, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	0.07	2.07	Background	No Exceedance
EMW-05	UA	E001	Beryllium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.004	Standard	No Exceedance
EMW-05	UA	E001	Boron, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	0.152	2	Standard	No Exceedance
EMW-05	UA	E001	Cadmium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.005	Standard	No Exceedance
EMW-05	UA	E001	Chloride, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	15.4	200	Standard	No Exceedance
EMW-05	UA	E001	Chromium, total	mg/L	11/18/22 - 06/15/23	4	50	CI around median (Last Sample, n<7)	0.004	0.1	Standard	No Exceedance
EMW-05	UA	E001	Cobalt, total	mg/L	11/18/22 - 06/15/23	4	25	CI around median (Last Sample, n<7)	0.002	0.0280	Background	No Exceedance
EMW-05	UA	E001	Fluoride, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.25	4.0	Standard	No Exceedance
EMW-05	UA	E001	Lead, total	mg/L	11/18/22 - 06/15/23	4	50	CI around geomean	6.97e-05	0.0330	Background	No Exceedance
EMW-05	UA	E001	Lithium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.02	0.0710	Background	No Exceedance
EMW-05	UA	E001	Mercury, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.0002	0.002	Standard	No Exceedance
EMW-05	UA	E001	Molybdenum, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	-3.82e-05	0.1	Standard	No Exceedance
EMW-05	UA	E001	pH (field)	SU	12/15/22 - 06/15/23	3	0	Most recent sample	7.0/7.0	6.3/9.0	Background/Standard	No Exceedance
EMW-05	UA	E001	Selenium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.05	Standard	No Exceedance
EMW-05	UA	E001	Sulfate, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	120	400	Standard	No Exceedance
EMW-05	UA	E001	Thallium, total	mg/L	11/18/22 - 06/15/23	4	100	All ND - Last	0.001	0.002	Standard	No Exceedance
EMW-05	UA	E001	Total Dissolved Solids	mg/L	11/18/22 - 06/15/23	4	25	CI around median (Last Sample, n<7)	26	1,200	Standard	No Exceedance

TABLE 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, 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

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

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

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

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

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

TABLE 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
APW-01	UA	E002	Antimony, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.003	0.006	Standard	No Exceedance
APW-01	UA	E002	Arsenic, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.00182	0.0300	Background	No Exceedance
APW-01	UA	E002	Barium, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.0284	2.07	Background	No Exceedance
APW-01	UA	E002	Beryllium, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.001	0.004	Standard	No Exceedance
APW-01	UA	E002	Boron, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.567	2	Standard	No Exceedance
APW-01	UA	E002	Cadmium, total	mg/L	06/17/21 - 08/23/23	5	80	CI around median (Last Sample, n<7)	0.001	0.005	Standard	No Exceedance
APW-01	UA	E002	Chloride, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	97.2	200	Standard	No Exceedance
APW-01	UA	E002	Chromium, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.000941	0.1	Standard	No Exceedance
APW-01	UA	E002	Cobalt, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.001	0.0280	Background	No Exceedance
APW-01	UA	E002	Fluoride, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.25	4.0	Standard	No Exceedance
APW-01	UA	E002	Lead, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.00407	0.0330	Background	No Exceedance
APW-01	UA	E002	Lithium, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.02	0.0710	Background	No Exceedance
APW-01	UA	E002	Mercury, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
APW-01	UA	E002	Molybdenum, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.000943	0.1	Standard	No Exceedance
APW-01	UA	E002	pH (field)	SU	06/17/21 - 08/23/23	5	0	CI around mean	6.5/7.2	6.3/9.0	Background/Standard	No Exceedance
APW-01	UA	E002	Radium 226 + Radium 228, total	pCi/L	06/17/21 - 08/23/23	4	0	CI around mean	-1.26	9.60	Background	No Exceedance
APW-01	UA	E002	Selenium, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.001	0.05	Standard	No Exceedance
APW-01	UA	E002	Sulfate, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	279	400	Standard	No Exceedance
APW-01	UA	E002	Thallium, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.001	0.002	Standard	No Exceedance
APW-01	UA	E002	Total Dissolved Solids	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	779	1,200	Standard	No Exceedance
AW-20	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-20	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.011	0.0300	Background	No Exceedance
AW-20	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.128	2.07	Background	No Exceedance
AW-20	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-20	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	1.9	2	Standard	No Exceedance
AW-20	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-20	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	85.7	200	Standard	No Exceedance

TABLE 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-20	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	7	86	CI around median	0.004	0.1	Standard	No Exceedance
AW-20	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	7	57	CI around median	0.002	0.0280	Background	No Exceedance
AW-20	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	7	14	CI around mean	0.189	4.0	Standard	No Exceedance
AW-20	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	7	71	CI around median	0.001	0.0330	Background	No Exceedance
AW-20	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	7	71	CI around median	0.02	0.0710	Background	No Exceedance
AW-20	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-20	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.00231	0.1	Standard	No Exceedance
AW-20	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	7	0	CI around mean	6.4/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-20	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	6	0	CI around mean	0.17	9.60	Background	No Exceedance
AW-20	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-20	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	38.2	400	Standard	No Exceedance
AW-20	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-20	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	737	1,200	Standard	No Exceedance
AW-23	UA	E002	Antimony, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-23	UA	E002	Arsenic, total	mg/L	11/21/22 - 08/23/23	5	80	CI around median (Last Sample, n<7)	0.001	0.0300	Background	No Exceedance
AW-23	UA	E002	Barium, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	0.02	2.07	Background	No Exceedance
AW-23	UA	E002	Beryllium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-23	UA	E002	Boron, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	0.458	2	Standard	No Exceedance
AW-23	UA	E002	Cadmium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-23	UA	E002	Chloride, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	38.8	200	Standard	No Exceedance
AW-23	UA	E002	Chromium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-23	UA	E002	Cobalt, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-23	UA	E002	Fluoride, total	mg/L	11/21/22 - 08/23/23	5	40	CI around mean	0.231	4.0	Standard	No Exceedance
AW-23	UA	E002	Lead, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-23	UA	E002	Lithium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-23	UA	E002	Mercury, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-23	UA	E002	Molybdenum, total	mg/L	11/21/22 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.001	0.1	Standard	No Exceedance

TABLE 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-23	UA	E002	pH (field)	SU	11/21/22 - 08/23/23	5	0	CI around mean	6.6/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-23	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/22 - 08/23/23	4	0	CI around mean	-0.112	9.60	Background	No Exceedance
AW-23	UA	E002	Selenium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-23	UA	E002	Sulfate, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	179	400	Standard	No Exceedance
AW-23	UA	E002	Thallium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-23	UA	E002	Total Dissolved Solids	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	701	1,200	Standard	No Exceedance
EMW-05	UA	E002	Antimony, total	mg/L	11/18/22 - 08/28/23	5	100	All ND - Last	0.003	0.006	Standard	No Exceedance
EMW-05	UA	E002	Arsenic, total	mg/L	11/18/22 - 08/28/23	5	20	CI around median (Last Sample, n<7)	0.001	0.0300	Background	No Exceedance
EMW-05	UA	E002	Barium, total	mg/L	11/18/22 - 08/28/23	5	0	CI around median (Last Sample, n<7)	0.062	2.07	Background	No Exceedance
EMW-05	UA	E002	Beryllium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.004	Standard	No Exceedance
EMW-05	UA	E002	Boron, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	0.289	2	Standard	No Exceedance
EMW-05	UA	E002	Cadmium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.005	Standard	No Exceedance
EMW-05	UA	E002	Chloride, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	15.5	200	Standard	No Exceedance
EMW-05	UA	E002	Chromium, total	mg/L	11/18/22 - 08/28/23	5	60	CI around median (Last Sample, n<7)	0.004	0.1	Standard	No Exceedance
EMW-05	UA	E002	Cobalt, total	mg/L	11/18/22 - 08/28/23	5	40	CI around median (Last Sample, n<7)	0.002	0.0280	Background	No Exceedance
EMW-05	UA	E002	Fluoride, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.25	4.0	Standard	No Exceedance
EMW-05	UA	E002	Lead, total	mg/L	11/18/22 - 08/28/23	5	60	CI around median (Last Sample, n<7)	0.001	0.0330	Background	No Exceedance
EMW-05	UA	E002	Lithium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.02	0.0710	Background	No Exceedance
EMW-05	UA	E002	Mercury, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.0002	0.002	Standard	No Exceedance
EMW-05	UA	E002	Molybdenum, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	0.000417	0.1	Standard	No Exceedance
EMW-05	UA	E002	pH (field)	SU	12/15/22 - 08/28/23	4	0	CI around mean	6.2/7.3	6.3/9.0	Background/Standard	No Exceedance
EMW-05	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 08/28/23	4	0	CI around mean	-0.288	9.60	Background	No Exceedance
EMW-05	UA	E002	Selenium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.05	Standard	No Exceedance
EMW-05	UA	E002	Sulfate, total	mg/L	11/18/22 - 08/28/23	5	0	CI around median (Last Sample, n<7)	130	400	Standard	No Exceedance
EMW-05	UA	E002	Thallium, total	mg/L	11/18/22 - 08/28/23	5	100	All ND - Last	0.001	0.002	Standard	No Exceedance
EMW-05	UA	E002	Total Dissolved Solids	mg/L	11/18/22 - 08/28/23	5	20	CI around median (Last Sample, n<7)	900	1,200	Standard	No Exceedance

TABLE 4.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Notes:
Compliance Result:

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

HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:

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

CI around mean = Confidence interval around the mean

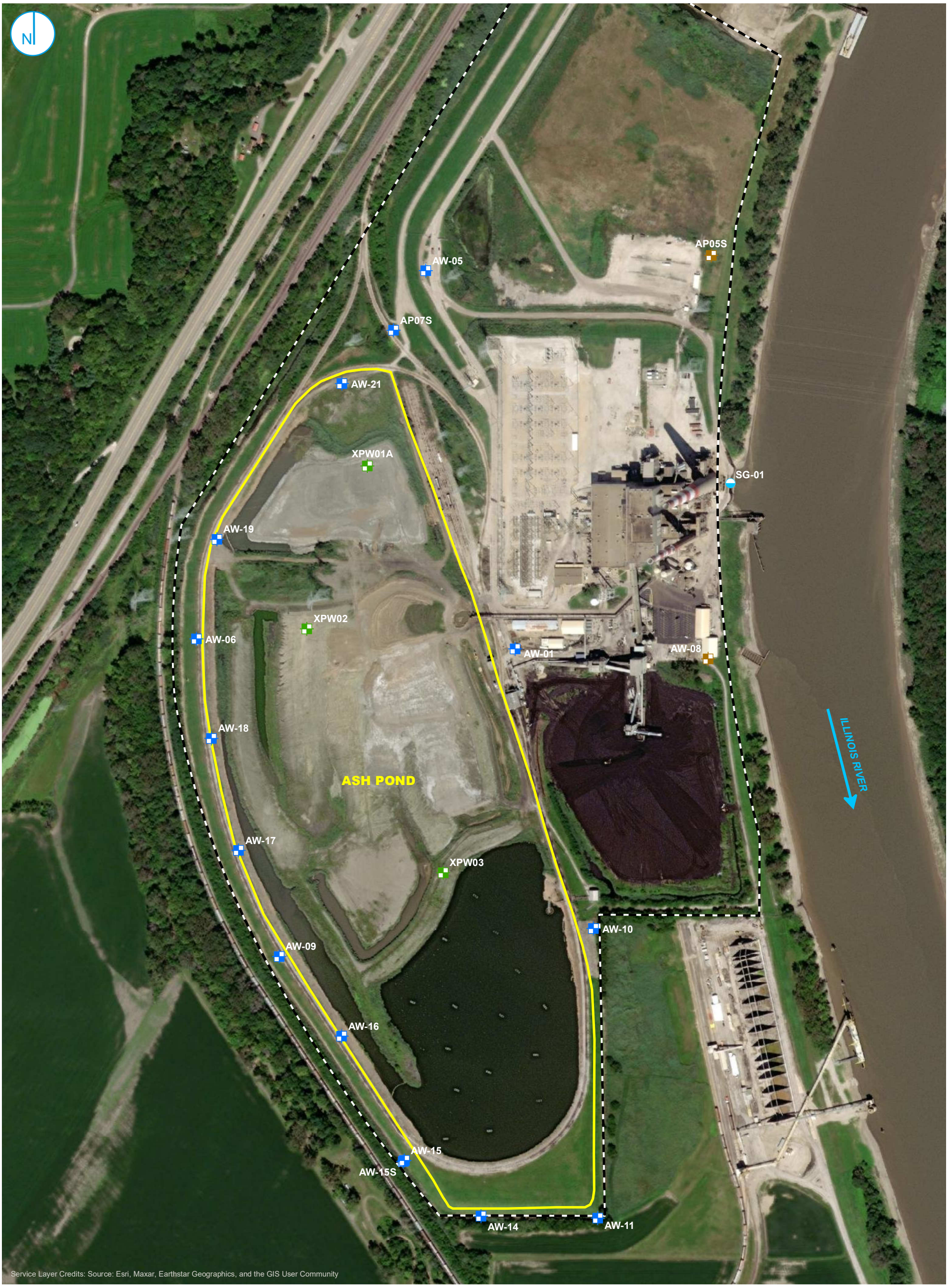
CI around median = Confidence interval around the median

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

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

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

FIGURES



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

0 200 400 Feet

MONITORING WELL LOCATION MAP

FIGURE 1

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND

EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL

N

AW-05
AP05S
AP07S
AW-21
XPW01A
SG-01
AW-19
XPW02
AW-06
AW-01
AW-08
AW-18
ASH POND
ILLINOIS RIVER
AW-17
XPW03
AW-10
AW-09
AW-16
AW-15
AW-15S
AW-14
AW-11

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- EGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

0 200 400 Feet

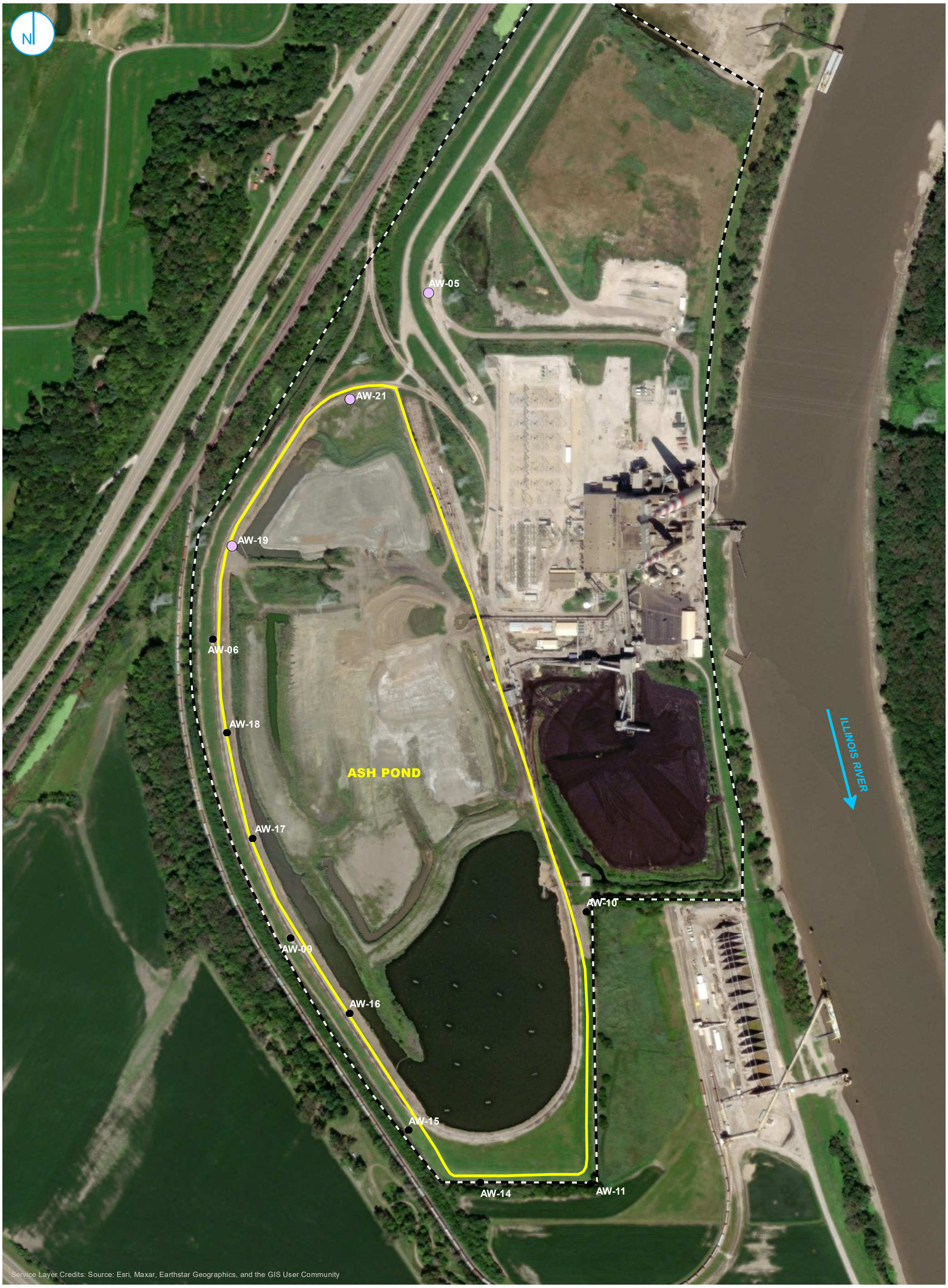
MONITORING WELL LOCATION MAP

FIGURE 1

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL



TOTAL BORON EXCEEDANCE

COMPLIANCE WELL WITHOUT EXCEEDANCE

REGULATED UNIT (SUBJECT UNIT)

PROPERTY BOUNDARY

0 212.5 425 Feet

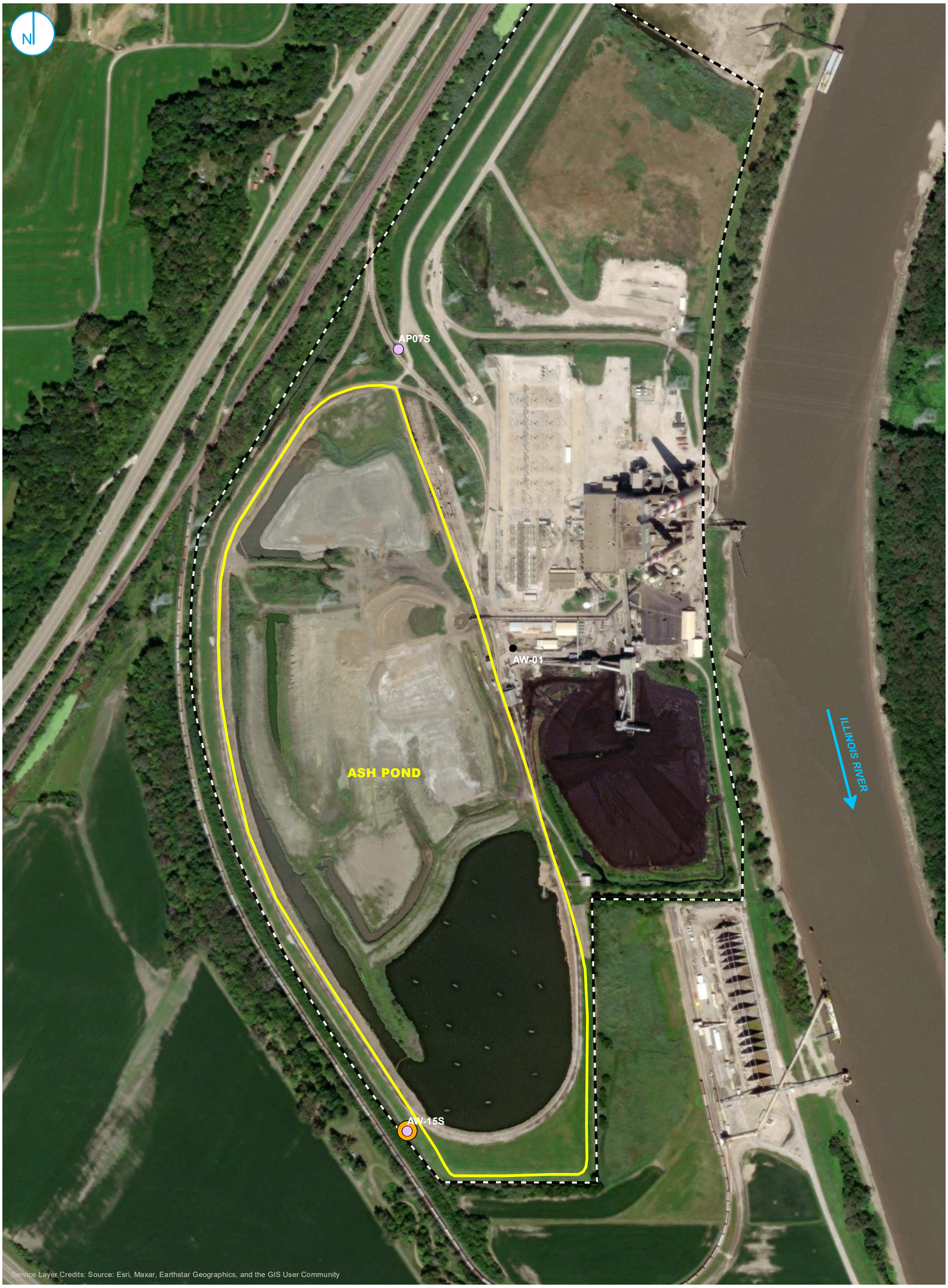
GWPS EXCEEDANCE MAP - UPPERMOST AQUIFER QUARTERS 2-3, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL



TOTAL BORON EXCEEDANCE
TOTAL SULFATE EXCEEDANCE
COMPLIANCE WELL WITHOUT EXCEEDANCE
REGULATED UNIT (SUBJECT UNIT)
PROPERTY BOUNDARY

0 212.5 425
Feet

GWPS EXCEEDANCE MAP - POTENTIAL MIGRATION PATHWAY QUARTERS 2-3, 2023

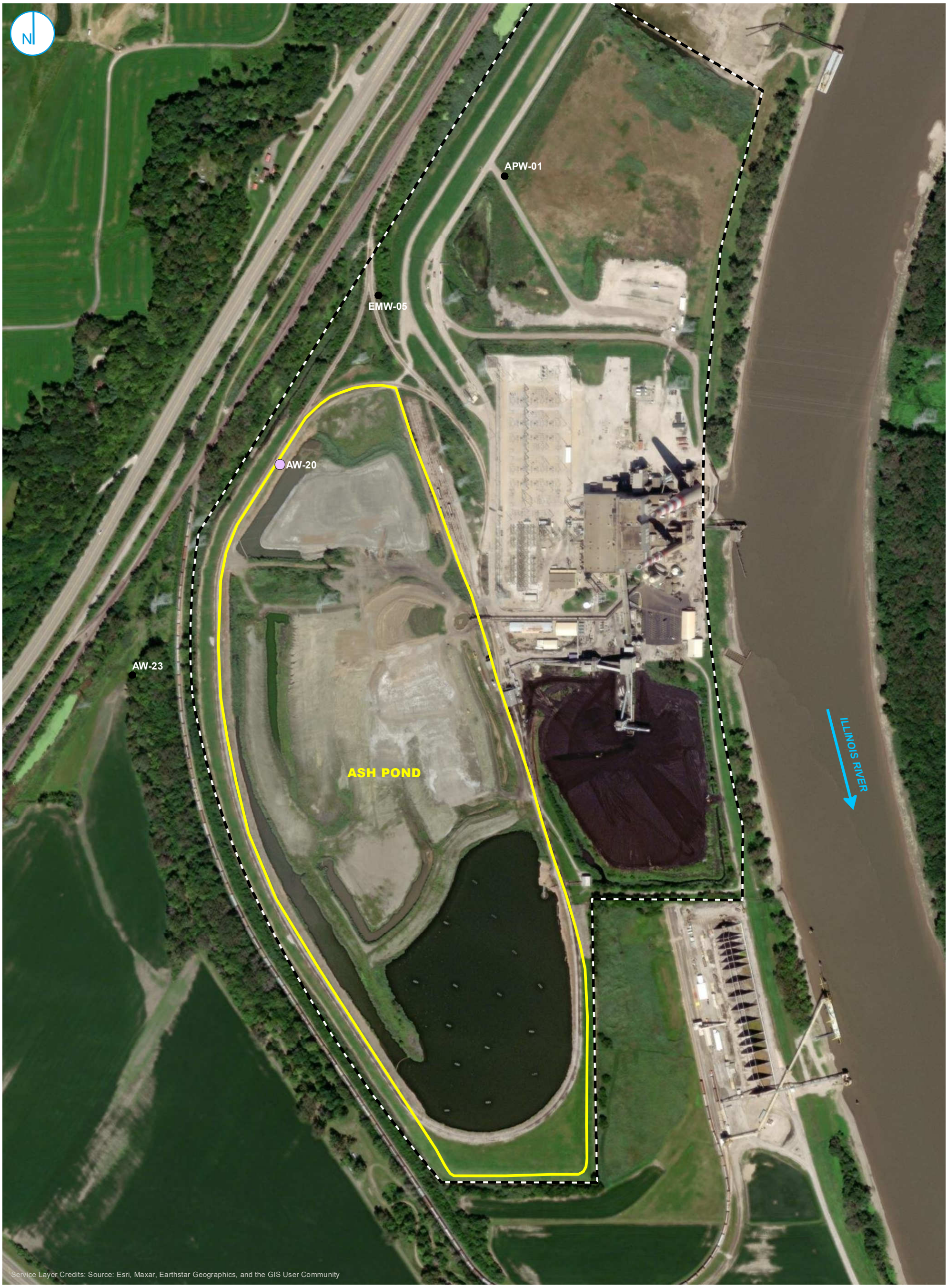
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND

EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 3

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL



TOTAL BORON EXCEEDANCE
COMPLIANCE WELL WITHOUT EXCEEDANCE
REGULATED UNIT (SUBJECT UNIT)
PROPERTY BOUNDARY

0 212.5 425 Feet

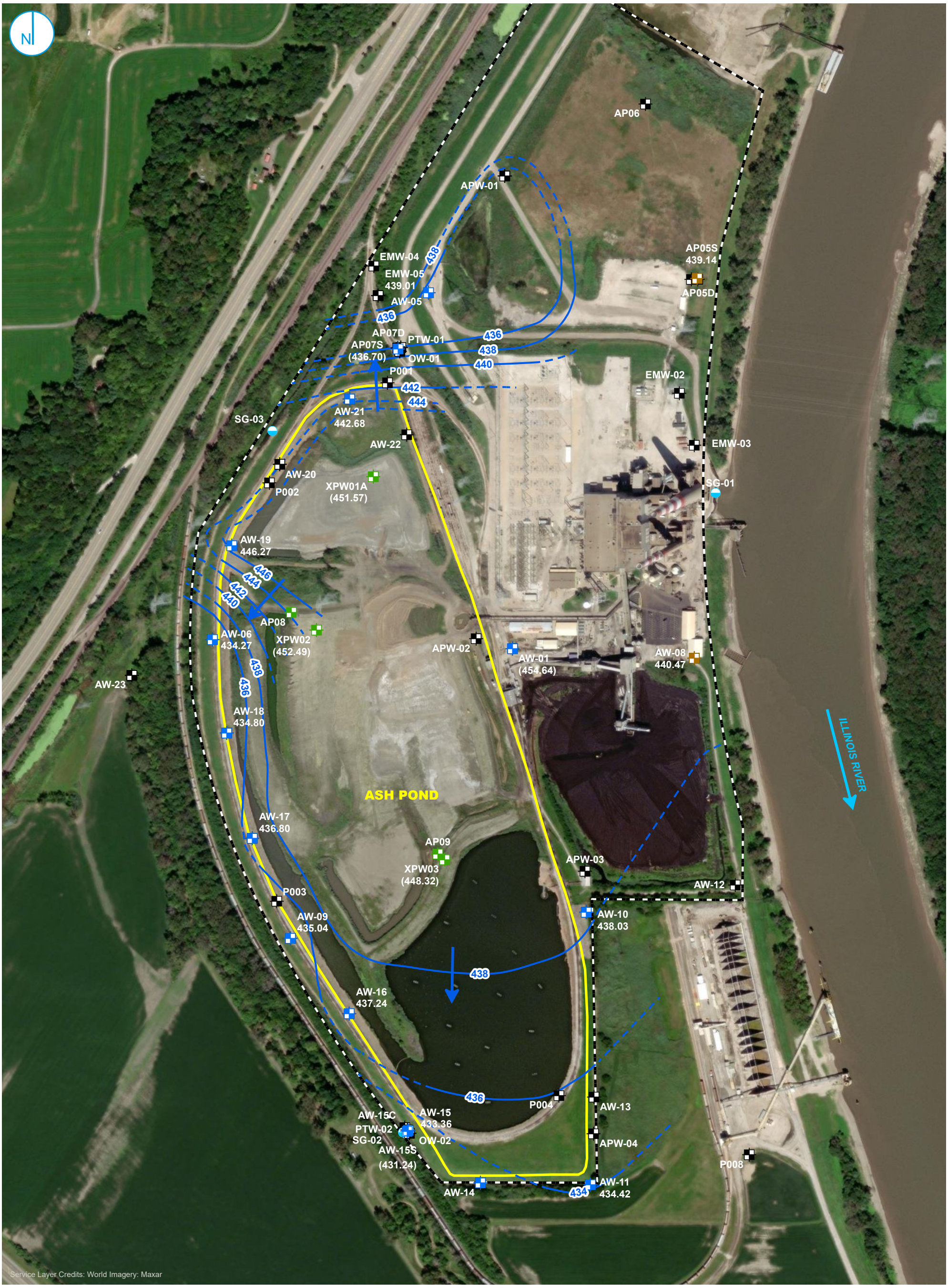
SUPPLEMENTAL GWPS EXCEEDANCE MAP - UPPERMOST AQUIFER QUARTERS 2-3, 2023

FIGURE 4

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL



COMPLIANCE MONITORING WELL
BACKGROUND MONITORING WELL
MONITORING WELL
PORE WATER WELL
STAFF GAGE, RIVER

GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
INFERRED GROUNDWATER ELEVATION CONTOUR
GROUNDWATER FLOW DIRECTION
REGULATED UNIT (SUBJECT UNIT)
PROPERTY BOUNDARY

0 212.5 425 Feet

NOTES
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

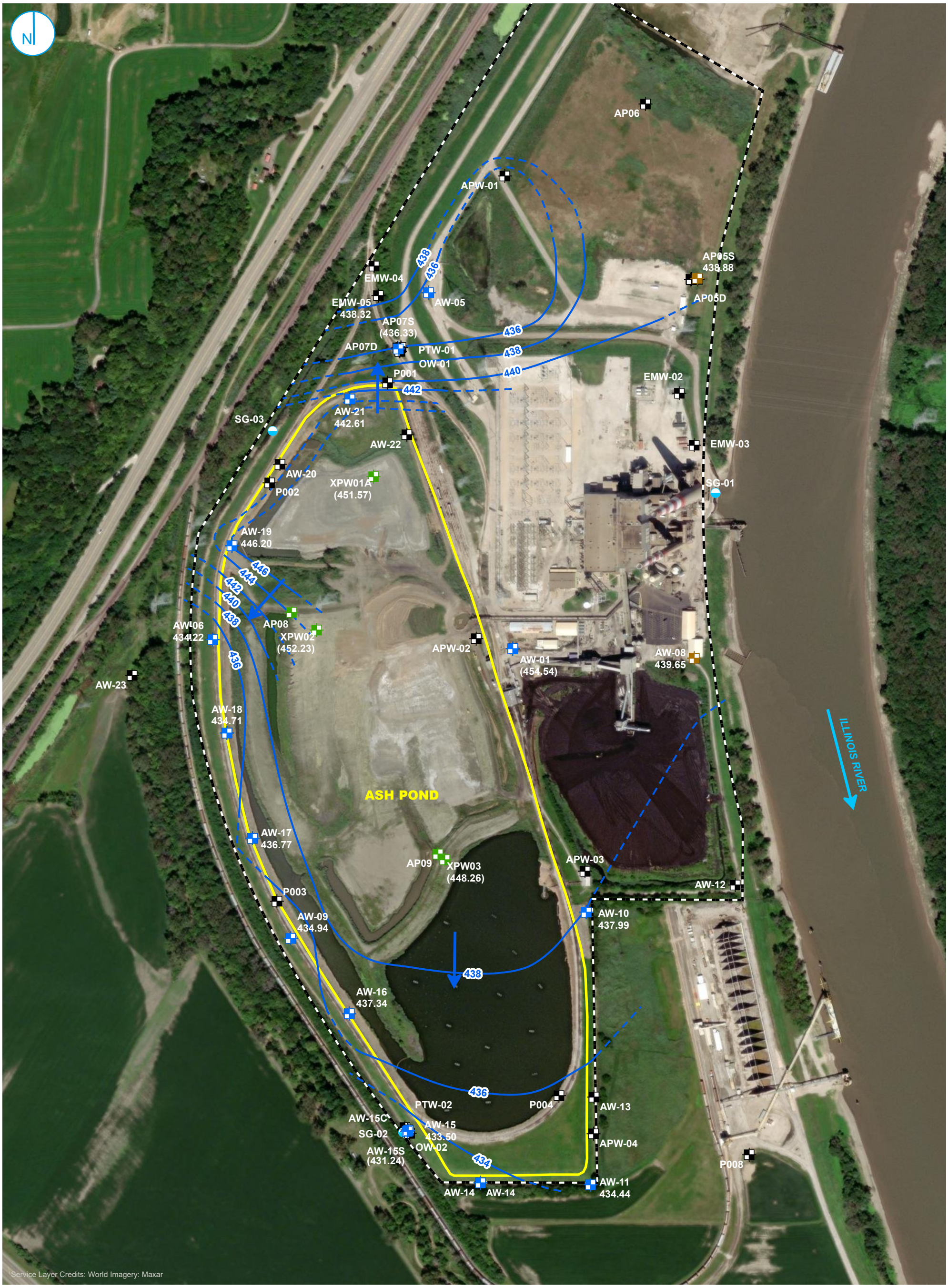
POTENTIOMETRIC SURFACE MAP APRIL 12, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND

EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 5

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

0 212.5 425 Feet

NOTES
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

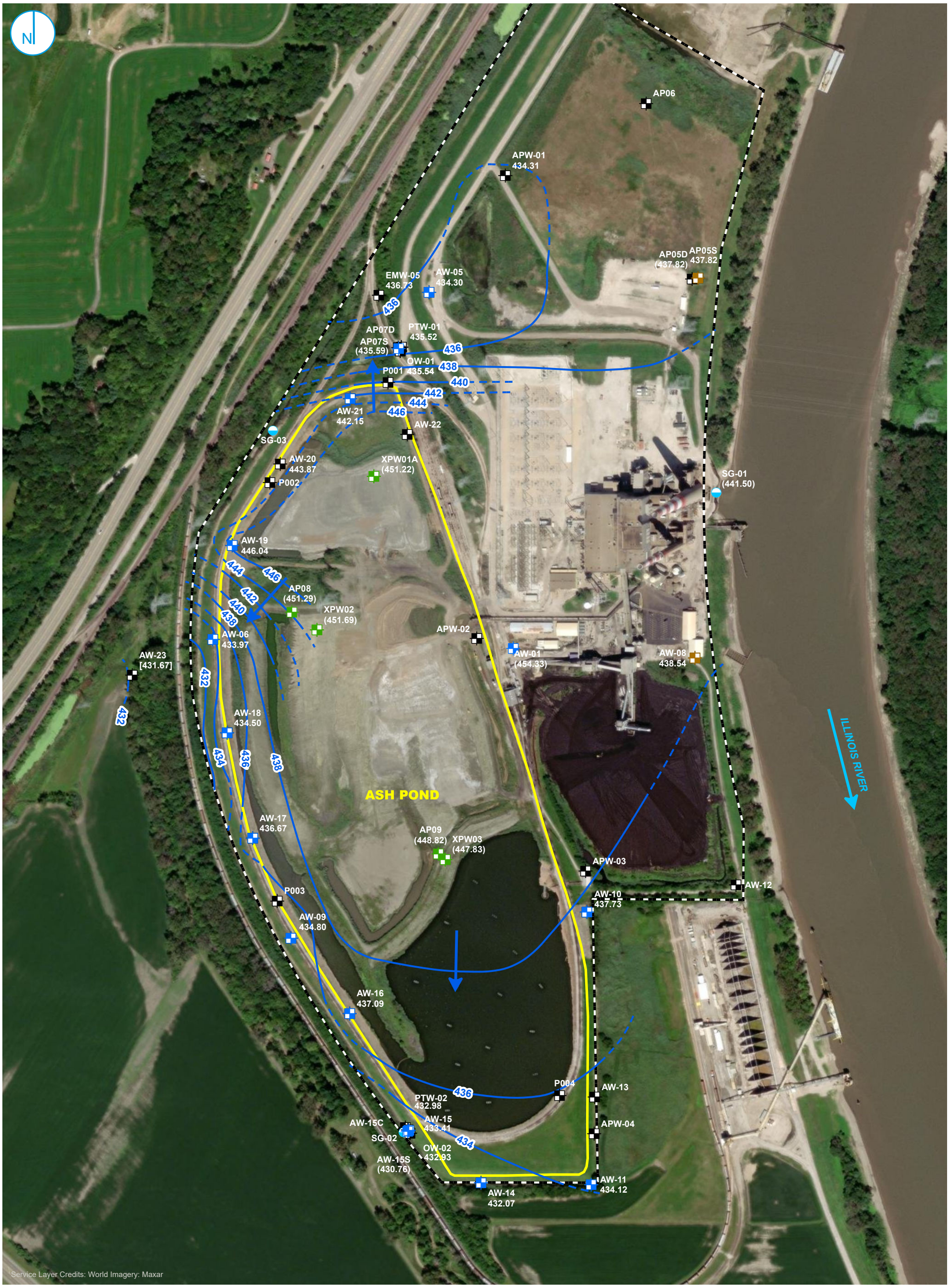
POTENTIOMETRIC SURFACE MAP MAY 12, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND

EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 6

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

0 212.5 425 Feet

NOTES
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. ELEVATIONS IN BRACKETS WERE OBTAINED OUTSIDE OF THE 24-HOUR PERIOD FROM INITIATION OF DEPTH TO GROUNDWATER MEASUREMENTS BUT WITHIN THE SAME SAMPLING EVENT.

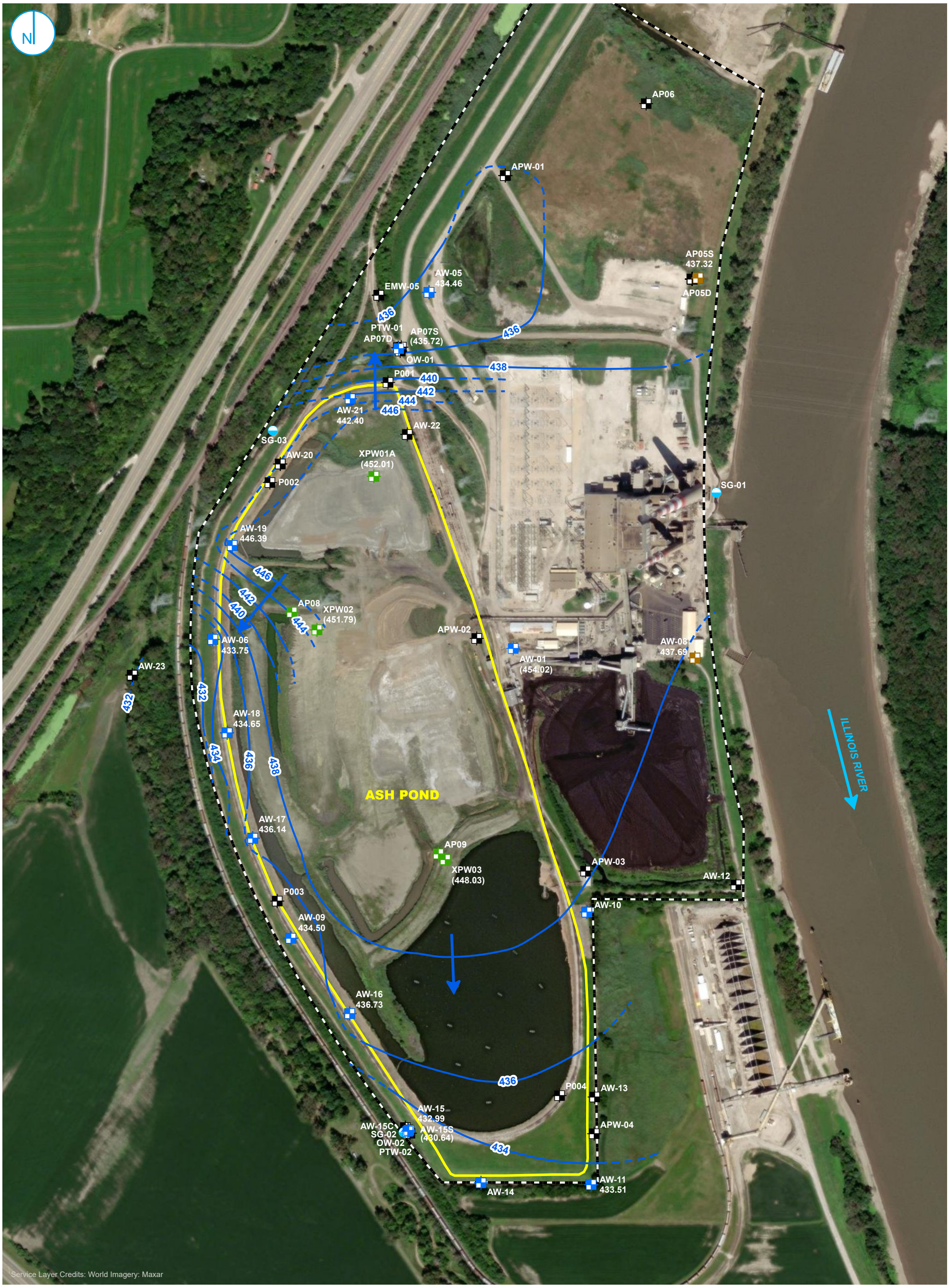
POTENTIOMETRIC SURFACE MAP JUNE 12, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 7

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

0 212.5 425 Feet

NOTES
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

POTENTIOMETRIC SURFACE MAP JULY 21, 2023

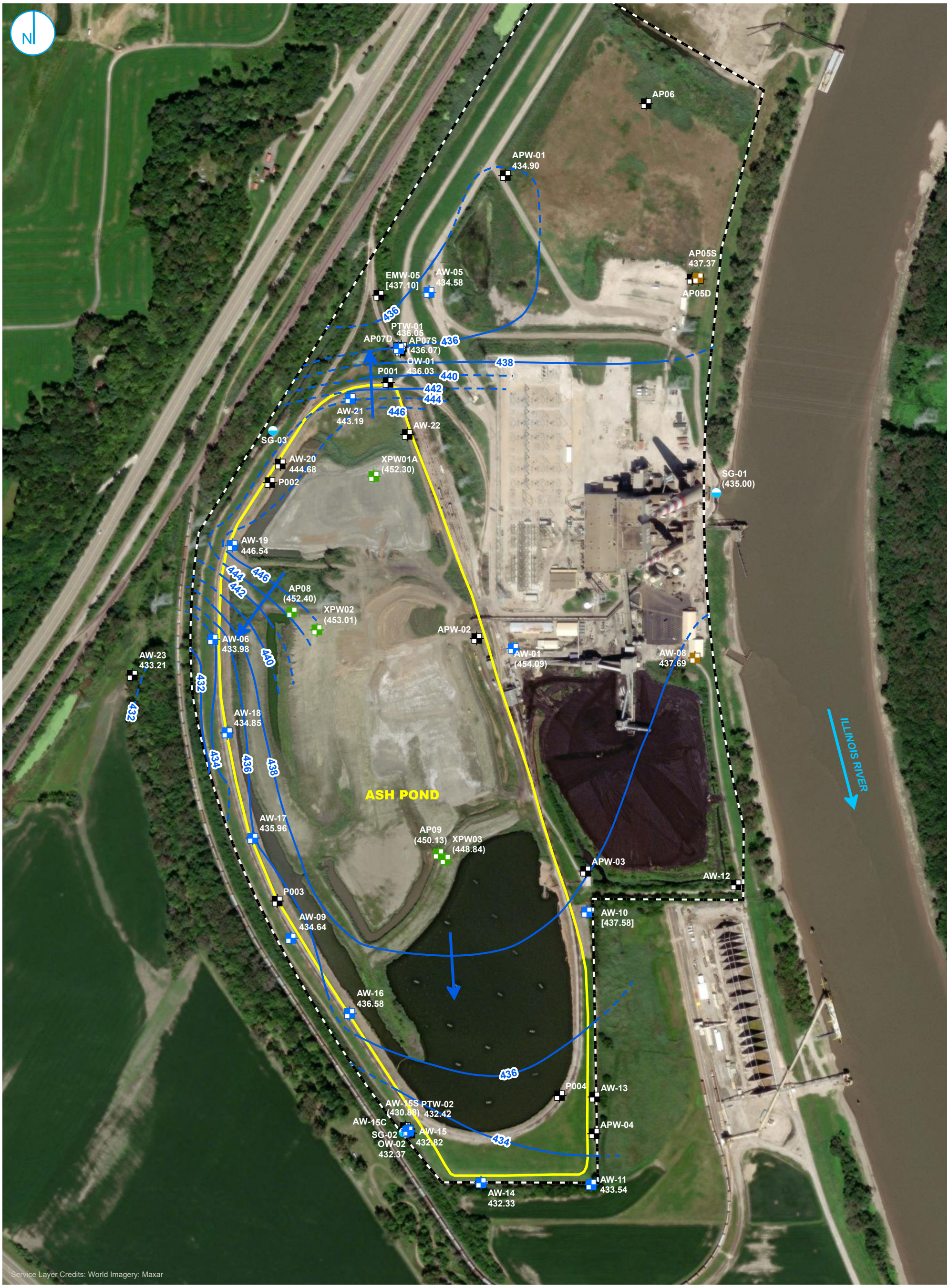
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND

EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 8

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- MONITORING WELL
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

0 212.5 425 Feet

NOTES
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. ELEVATIONS IN BRACKETS WERE OBTAINED OUTSIDE OF THE 24-HOUR PERIOD FROM INITIATION OF DEPTH TO GROUNDWATER MEASUREMENTS BUT WITHIN THE SAME SAMPLING EVENT.

POTENTIOMETRIC SURFACE MAP AUGUST 21, 2023

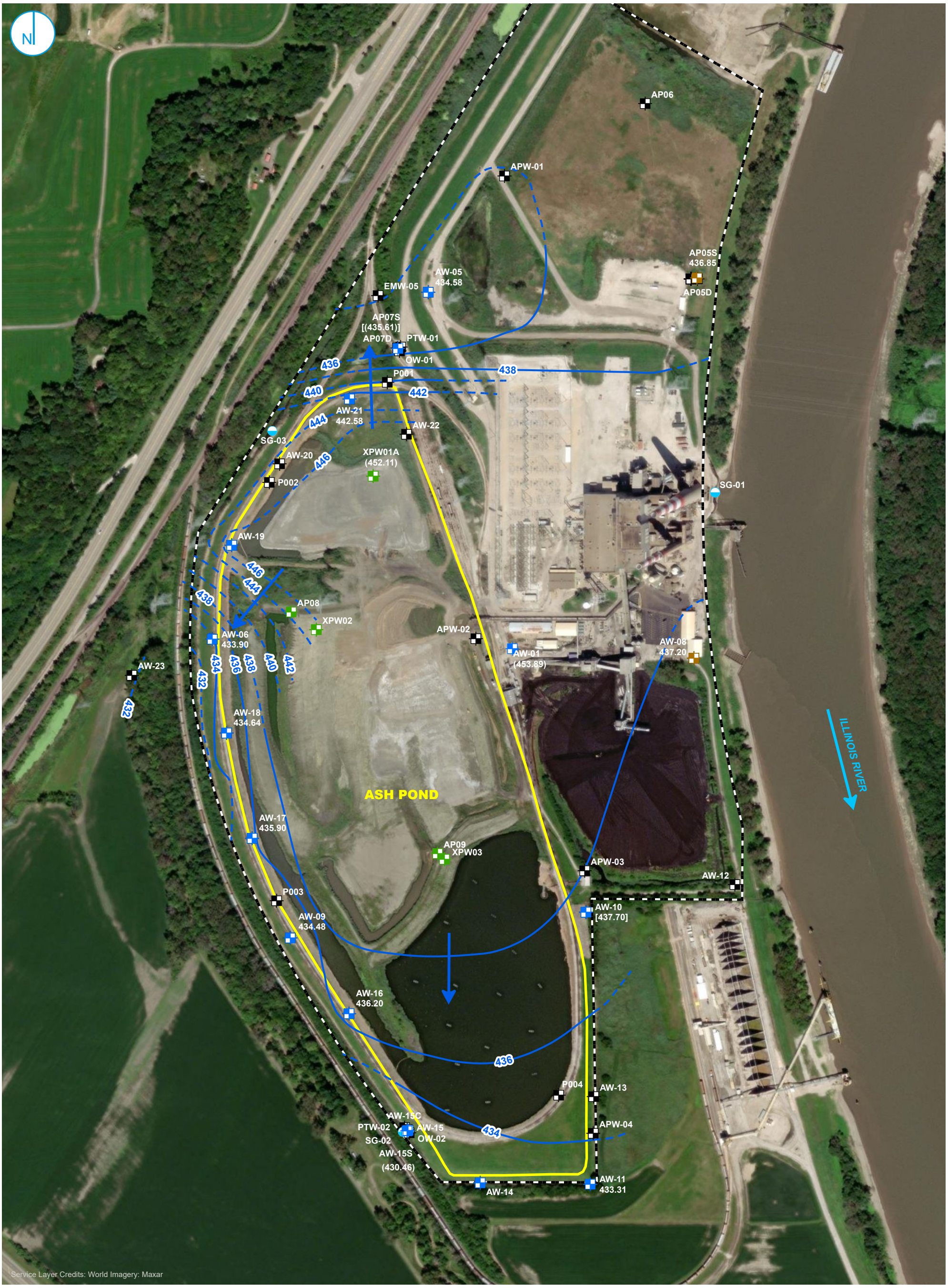
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND

EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 9

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- MONITORING WELL
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

0 212.5 425 Feet

NOTES
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATIONS IN BRACKETS WERE OBTAINED OUTSIDE OF THE 24-HOUR PERIOD FROM INITIATION OF DEPTH TO GROUNDWATER MEASUREMENTS BUT WITHIN THE SAME SAMPLING EVENT.
3. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

POTENTIOMETRIC SURFACE MAP SEPTEMBER 27, 2023

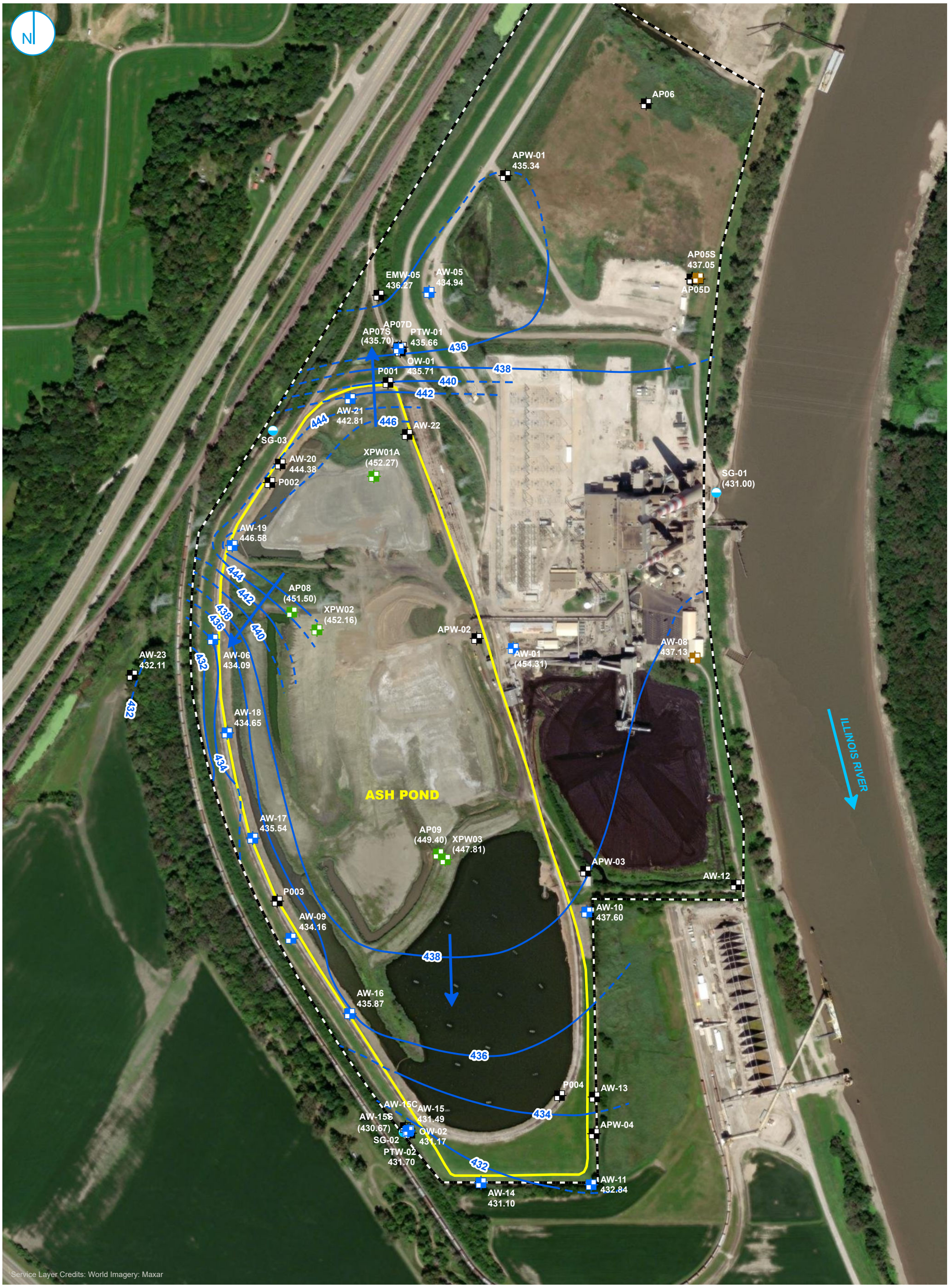
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND

EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 10

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL



COMPLIANCE MONITORING WELL
BACKGROUND MONITORING WELL
PORE WATER WELL
STAFF GAGE, RIVER
MONITORING WELL

GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
INFERRED GROUNDWATER ELEVATION CONTOUR
GROUNDWATER FLOW DIRECTION
REGULATED UNIT (SUBJECT UNIT)
PROPERTY BOUNDARY

0 212.5 425 Feet

NOTES
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

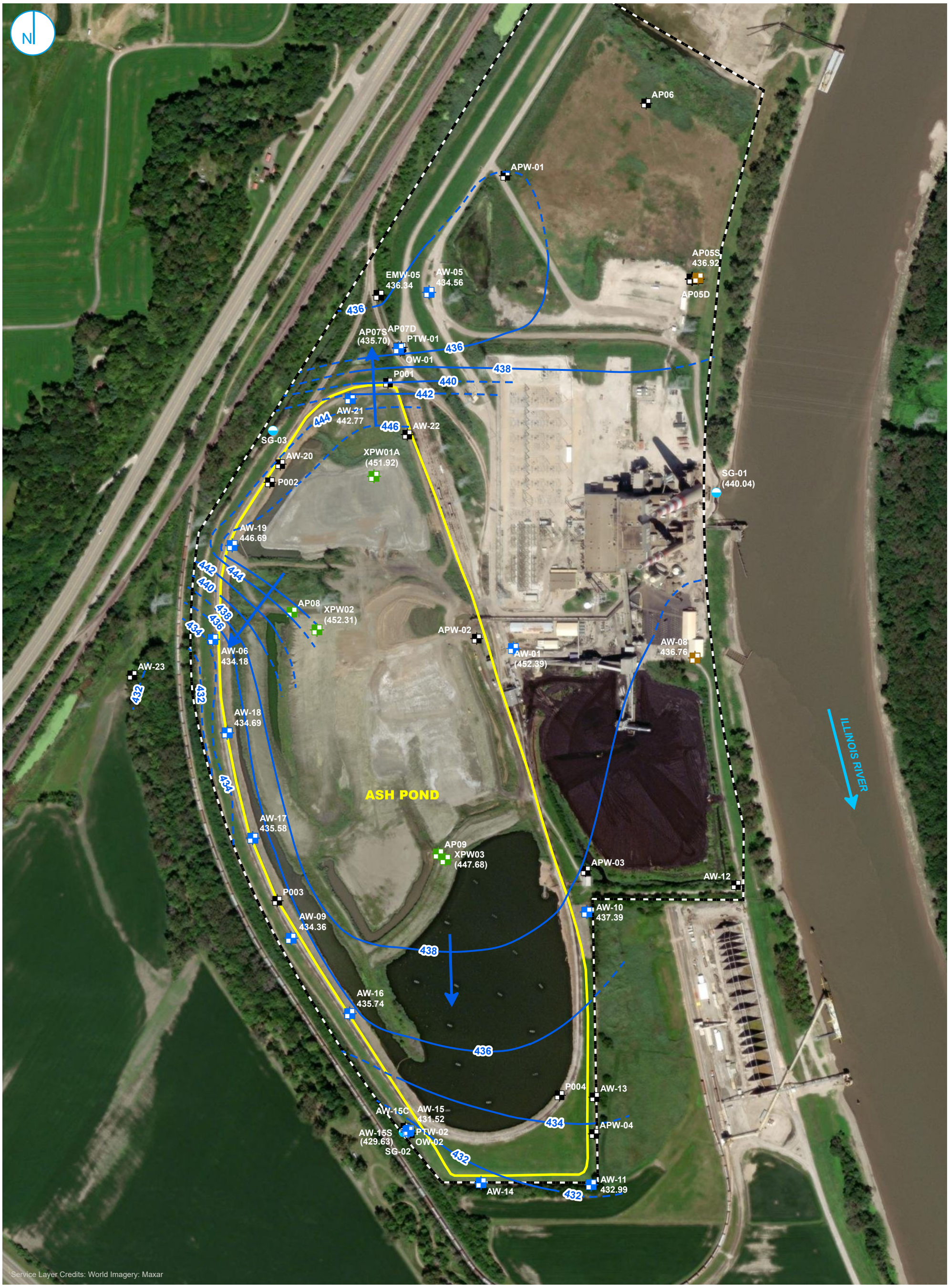
POTENTIOMETRIC SURFACE MAP OCTOBER 27, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 11

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- MONITORING WELL

- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

0 212.5 425 Feet

NOTES
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

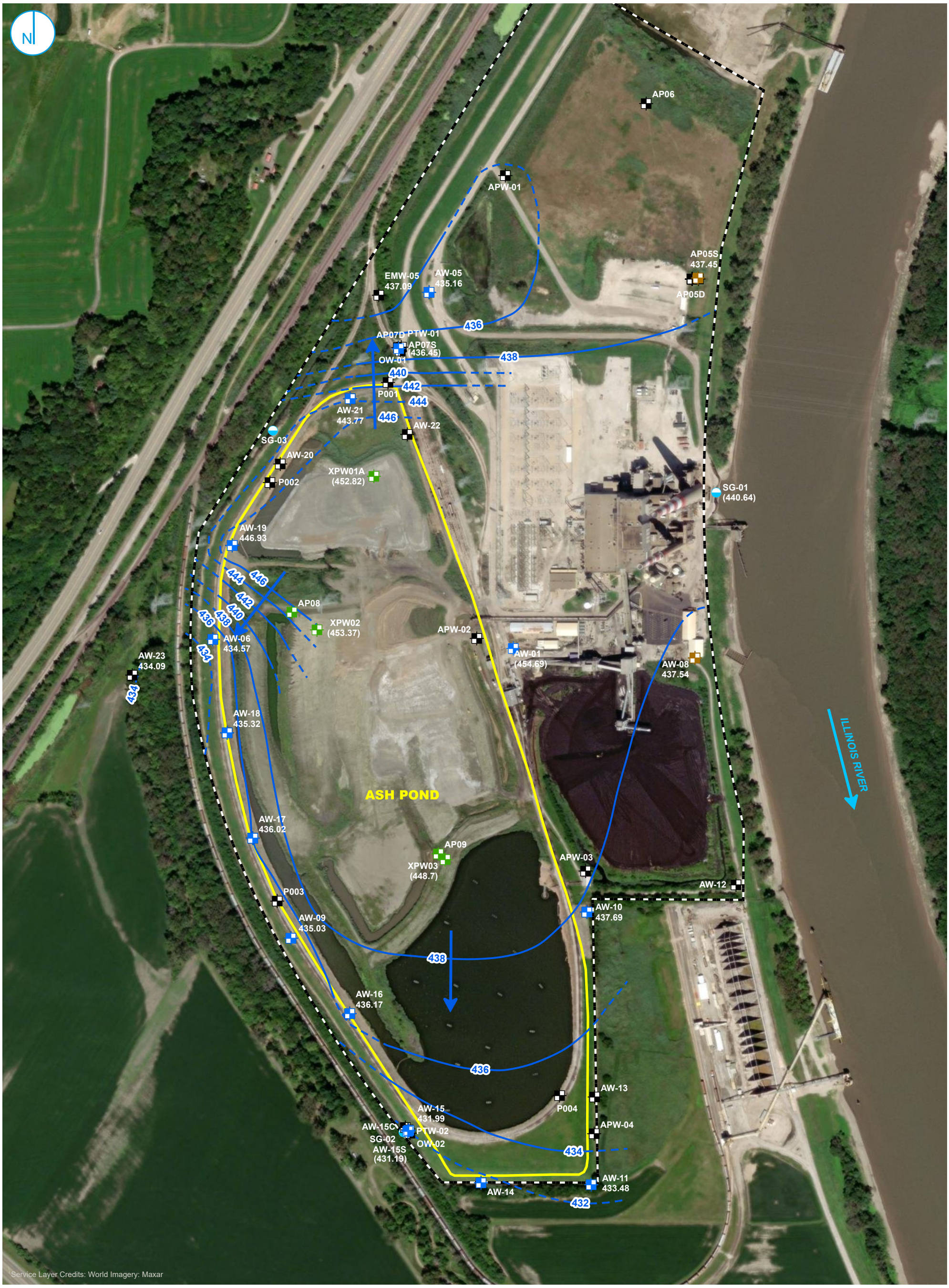
POTENTIOMETRIC SURFACE MAP NOVEMBER 20, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
ASH POND
EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 12

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL



- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

0 212.5 425 Feet

NOTES
1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

POTENTIOMETRIC SURFACE MAP DECEMBER 27, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND

EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 13

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL

ATTACHMENTS

ATTACHMENT A
GROUNDWATER ELEVATION DATA

ATTACHMENT A
GROUNDWATER ELEVATION DATA
2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
AP05S	Background	UA	04/12/2023	4.13	439.14
AP05S	Background	UA	05/12/2023	4.39	438.88
AP05S	Background	UA	06/12/2023	5.45	437.82
AP05S	Background	UA	07/21/2023	5.95	437.32
AP05S	Background	UA	08/21/2023	5.90	437.37
AP05S	Background	UA	09/27/2023	6.42	436.85
AP05S	Background	UA	10/27/2023	6.23	437.05
AP05S	Background	UA	11/20/2023	6.36	436.92
AP05S	Background	UA	12/27/2023	5.83	437.45
AP07S	Compliance	PMP	04/12/2023	24.37	436.70
AP07S	Compliance	PMP	05/12/2023	24.74	436.33
AP07S	Compliance	PMP	06/12/2023	25.48	435.59
AP07S	Compliance	PMP	07/21/2023	25.36	435.72
AP07S	Compliance	PMP	08/21/2023	25.01	436.07
AP07S	Compliance	PMP	09/12/2023	[25.47]	[435.61]
AP07S	Compliance	PMP	10/27/2023	25.38	435.70
AP07S	Compliance	PMP	11/20/2023	25.38	435.70
AP07S	Compliance	PMP	12/27/2023	24.63	436.45
AW-01	Compliance	PMP	01/09/2023	10.70	453.73
AW-01	Compliance	PMP	04/12/2023	9.78	454.64
AW-01	Compliance	PMP	05/12/2023	9.88	454.54
AW-01	Compliance	PMP	06/12/2023	10.09	454.33
AW-01	Compliance	PMP	07/21/2023	10.40	454.02
AW-01	Compliance	PMP	08/21/2023	10.33	454.09
AW-01	Compliance	PMP	09/27/2023	10.54	453.89
AW-01	Compliance	PMP	10/27/2023	10.12	454.31
AW-01	Compliance	PMP	11/20/2023	12.04	452.39
AW-01	Compliance	PMP	12/27/2023	9.74	454.69
AW-05	Compliance	UA	04/12/2023	7.94	435.43
AW-05	Compliance	UA	05/12/2023	8.19	435.18
AW-05	Compliance	UA	06/12/2023	9.06	434.30
AW-05	Compliance	UA	07/21/2023	8.91	434.46
AW-05	Compliance	UA	08/21/2023	8.79	434.58
AW-05	Compliance	UA	09/27/2023	8.79	434.58
AW-05	Compliance	UA	10/27/2023	8.43	434.94
AW-05	Compliance	UA	11/20/2023	8.81	434.56
AW-05	Compliance	UA	12/27/2023	8.21	435.16
AW-06	Compliance	UA	04/12/2023	27.29	434.27
AW-06	Compliance	UA	05/12/2023	27.34	434.22
AW-06	Compliance	UA	06/12/2023	27.59	433.97
AW-06	Compliance	UA	07/21/2023	27.81	433.75
AW-06	Compliance	UA	08/21/2023	27.58	433.98
AW-06	Compliance	UA	09/27/2023	27.67	433.90
AW-06	Compliance	UA	10/27/2023	27.48	434.09
AW-06	Compliance	UA	11/20/2023	27.39	434.18
AW-06	Compliance	UA	12/27/2023	27.00	434.57

ATTACHMENT A
GROUNDWATER ELEVATION DATA
2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
AW-08	Background	UA	04/12/2023	22.06	440.47
AW-08	Background	UA	05/12/2023	22.88	439.65
AW-08	Background	UA	06/12/2023	23.99	438.54
AW-08	Background	UA	07/21/2023	24.84	437.69
AW-08	Background	UA	08/21/2023	24.84	437.69
AW-08	Background	UA	09/27/2023	25.34	437.20
AW-08	Background	UA	10/27/2023	25.41	437.13
AW-08	Background	UA	11/20/2023	25.78	436.76
AW-08	Background	UA	12/27/2023	25.00	437.54
AW-09	Compliance	UA	04/12/2023	26.40	435.04
AW-09	Compliance	UA	05/12/2023	26.50	434.94
AW-09	Compliance	UA	06/12/2023	26.64	434.80
AW-09	Compliance	UA	07/21/2023	26.95	434.50
AW-09	Compliance	UA	08/21/2023	26.81	434.64
AW-09	Compliance	UA	09/27/2023	26.97	434.48
AW-09	Compliance	UA	10/27/2023	27.29	434.16
AW-09	Compliance	UA	11/20/2023	27.09	434.36
AW-09	Compliance	UA	12/27/2023	26.42	435.03
AW-10	Compliance	UA	04/12/2023	1.89	438.03
AW-10	Compliance	UA	05/12/2023	1.93	437.99
AW-10	Compliance	UA	06/12/2023	2.19	437.73
AW-10	Compliance	UA	08/28/2023	[2.35]	[437.58]
AW-10	Compliance	UA	09/11/2023	[2.23]	[437.70]
AW-10	Compliance	UA	10/27/2023	2.33	437.60
AW-10	Compliance	UA	11/20/2023	2.54	437.39
AW-10	Compliance	UA	12/27/2023	2.24	437.69
AW-11	Compliance	UA	04/12/2023	5.44	434.42
AW-11	Compliance	UA	05/12/2023	5.42	434.44
AW-11	Compliance	UA	06/12/2023	5.74	434.12
AW-11	Compliance	UA	07/21/2023	6.35	433.51
AW-11	Compliance	UA	08/21/2023	6.32	433.54
AW-11	Compliance	UA	09/27/2023	6.56	433.31
AW-11	Compliance	UA	10/27/2023	7.03	432.84
AW-11	Compliance	UA	11/20/2023	6.88	432.99
AW-11	Compliance	UA	12/27/2023	6.39	433.48
AW-14	Compliance	UA	06/12/2023	7.33	432.07
AW-14	Compliance	UA	08/21/2023	7.07	432.33
AW-14	Compliance	UA	10/27/2023	8.30	431.10
AW-15	Compliance	UA	04/12/2023	8.14	433.36
AW-15	Compliance	UA	05/12/2023	8.00	433.50
AW-15	Compliance	UA	06/12/2023	8.09	433.41
AW-15	Compliance	UA	07/21/2023	8.51	432.99
AW-15	Compliance	UA	08/21/2023	8.68	432.82
AW-15	Compliance	UA	10/27/2023	10.02	431.49
AW-15	Compliance	UA	11/20/2023	9.99	431.52
AW-15	Compliance	UA	12/27/2023	9.52	431.99

ATTACHMENT A
GROUNDWATER ELEVATION DATA
2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
AW-15S	Compliance	PMP	04/12/2023	9.46	431.24
AW-15S	Compliance	PMP	05/12/2023	9.46	431.24
AW-15S	Compliance	PMP	06/12/2023	9.94	430.76
AW-15S	Compliance	PMP	07/21/2023	10.06	430.64
AW-15S	Compliance	PMP	08/21/2023	9.82	430.88
AW-15S	Compliance	PMP	09/27/2023	10.25	430.46
AW-15S	Compliance	PMP	10/27/2023	10.04	430.67
AW-15S	Compliance	PMP	11/20/2023	11.08	429.63
AW-15S	Compliance	PMP	12/27/2023	9.52	431.19
AW-16	Compliance	UA	04/12/2023	24.54	437.24
AW-16	Compliance	UA	05/12/2023	24.44	437.34
AW-16	Compliance	UA	06/12/2023	24.69	437.09
AW-16	Compliance	UA	07/21/2023	25.05	436.73
AW-16	Compliance	UA	08/21/2023	25.21	436.58
AW-16	Compliance	UA	09/27/2023	25.59	436.20
AW-16	Compliance	UA	10/27/2023	25.92	435.87
AW-16	Compliance	UA	11/20/2023	26.05	435.74
AW-16	Compliance	UA	12/27/2023	25.62	436.17
AW-17	Compliance	UA	04/12/2023	25.29	436.80
AW-17	Compliance	UA	05/12/2023	25.32	436.77
AW-17	Compliance	UA	06/12/2023	25.42	436.67
AW-17	Compliance	UA	07/21/2023	25.95	436.14
AW-17	Compliance	UA	08/21/2023	26.14	435.96
AW-17	Compliance	UA	09/27/2023	26.20	435.90
AW-17	Compliance	UA	10/27/2023	26.56	435.54
AW-17	Compliance	UA	11/20/2023	26.52	435.58
AW-17	Compliance	UA	12/27/2023	26.08	436.02
AW-18	Compliance	UA	04/12/2023	27.84	434.80
AW-18	Compliance	UA	05/12/2023	27.93	434.71
AW-18	Compliance	UA	06/12/2023	28.14	434.50
AW-18	Compliance	UA	07/21/2023	27.99	434.65
AW-18	Compliance	UA	08/21/2023	27.79	434.85
AW-18	Compliance	UA	09/27/2023	28.01	434.64
AW-18	Compliance	UA	10/27/2023	28.00	434.65
AW-18	Compliance	UA	11/20/2023	27.96	434.69
AW-18	Compliance	UA	12/27/2023	27.33	435.32
AW-19	Compliance	UA	04/12/2023	14.46	446.27
AW-19	Compliance	UA	05/12/2023	14.53	446.20
AW-19	Compliance	UA	06/12/2023	14.69	446.04
AW-19	Compliance	UA	07/21/2023	14.34	446.39
AW-19	Compliance	UA	08/21/2023	14.19	446.54
AW-19	Compliance	UA	10/27/2023	14.16	446.58
AW-19	Compliance	UA	11/20/2023	14.05	446.69
AW-19	Compliance	UA	12/27/2023	13.81	446.93
AW-21	Compliance	UA	04/12/2023	17.92	442.68
AW-21	Compliance	UA	05/12/2023	17.99	442.61

ATTACHMENT A
GROUNDWATER ELEVATION DATA
2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
AW-21	Compliance	UA	06/12/2023	18.45	442.15
AW-21	Compliance	UA	07/21/2023	18.20	442.40
AW-21	Compliance	UA	08/21/2023	17.41	443.19
AW-21	Compliance	UA	09/27/2023	18.03	442.58
AW-21	Compliance	UA	10/27/2023	17.80	442.81
AW-21	Compliance	UA	11/20/2023	17.84	442.77
AW-21	Compliance	UA	12/27/2023	16.84	443.77
XPW01A	Water Level	CCR	04/12/2023	12.58	451.57
XPW01A	Water Level	CCR	05/12/2023	12.58	451.57
XPW01A	Water Level	CCR	06/12/2023	12.93	451.22
XPW01A	Water Level	CCR	07/21/2023	12.14	452.01
XPW01A	Water Level	CCR	08/21/2023	11.86	452.30
XPW01A	Water Level	CCR	09/27/2023	12.05	452.11
XPW01A	Water Level	CCR	10/27/2023	11.89	452.27
XPW01A	Water Level	CCR	11/20/2023	12.24	451.92
XPW01A	Water Level	CCR	12/27/2023	11.34	452.82
XPW02	Water Level	CCR	04/12/2023	21.29	452.49
XPW02	Water Level	CCR	05/12/2023	21.55	452.23
XPW02	Water Level	CCR	06/12/2023	22.09	451.69
XPW02	Water Level	CCR	07/21/2023	21.99	451.79
XPW02	Water Level	CCR	08/21/2023	20.77	453.01
XPW02	Water Level	CCR	10/27/2023	21.63	452.16
XPW02	Water Level	CCR	11/20/2023	21.48	452.31
XPW02	Water Level	CCR	12/27/2023	20.42	453.37
XPW03	Water Level	CCR	04/12/2023	17.71	448.32
XPW03	Water Level	CCR	05/12/2023	17.77	448.26
XPW03	Water Level	CCR	06/12/2023	18.20	447.83
XPW03	Water Level	CCR	07/21/2023	18.01	448.03
XPW03	Water Level	CCR	08/21/2023	17.20	448.84
XPW03	Water Level	CCR	10/27/2023	18.23	447.81
XPW03	Water Level	CCR	11/20/2023	18.36	447.68
XPW03	Water Level	CCR	12/27/2023	17.34	448.70
SG-01	Water Level	SW	06/12/2023	NA	441.50
SG-01	Water Level	SW	08/21/2023	NA	435.00
SG-01	Water Level	SW	10/27/2023	NA	431.00
SG-01	Water Level	SW	11/20/2023	NA	440.04
SG-01	Water Level	SW	12/27/2023	NA	440.64

Notes:
Due to malfunctioning pressure transducer, data gaps exist in monthly water level elevations prior to the fourth quarter. Monthly depth to water measurements were collected manually in the fourth quarter.
BMP = below measuring point
Bracketing [ ] indicates that the measurement was obtained outside of the episodic depth to groundwater measurements time frame.
NA = not available/not applicable
NAVD88 = North American Vertical Datum of 1988
Monitored Unit Abbreviations:

CCR = coal combustion residuals

PMP = potential migration pathway

SW = surface water

UA = uppermost aquifer

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ATTACHMENT B
CORRECTIVE MEASURES ASSESSMENT EXTENSION REQUEST AND IEPA APPROVAL LETTER

Luminant

Illinois Power Resources Generating, LLC
7800 Cilco Lane
Peoria, IL 61607

December 7, 2023

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

Re: Edwards Ash Pond (IEPA ID: W148050005-01), Corrective Measures Assessment Schedule Extension Demonstration

Dear Mr. LeCrone:

In accordance with 35 I.A.C. § 845.660(a)(2), Illinois Power Resources Generating, LLC (IPRG) is submitting a schedule extension demonstration for completing the Corrective Measures Assessment (CMA) for the Ash Pond (IEPA ID: W148050005-01 at the Edwards Power Plant, as enclosed.

Sincerely,

Dianna Tickner

Dianna Tickner, P.E., PMP
Senior Director, Decommissioning & Demolition

Enclosures

INTRODUCTION AND BACKGROUND

Exceedances of the groundwater protection standards (GWPS) listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600 have been detected at the Ash Pond (AP), Illinois Environmental Protection Agency [IEPA] Identification [ID]: W1438050005-01) at the Edwards Power Plant (EPP). The GWPS exceedances are documented in the 2023 Quarter 2 groundwater monitoring report that was prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) and submitted to IEPA on October 8, 2023 [1].

In accordance with 35 I.A.C. § 845.660, Illinois Power Resources Generating, LLC (IPRG)) initiated a Corrective Measures Assessment (CMA) on January 6, 2024, which was within 90 days of the exceedance detection. Upon reviewing site-specific conditions, circumstances, and information gathered to-date, IPGC has determined, in accordance with 35 I.A.C. § 845.660(a)(2), that an additional 60 days will be required to complete the CMA. This extension of the CMA deadline would result in the CMA for the AP being submitted to IEPA on or before March 6, 2024.

DEMONSTRATION

As discussed below, there are four site-specific conditions or circumstances at the AP that justify the need for a 60-day extension of the default CMA deadline.

Circumstance 1: Ongoing Fieldwork and Additional Data Collection

The reliability of monitored natural attenuation (MNA) to attain GWPS is currently under evaluation. IPGC is in the process of evaluating the results of additional recent fieldwork and data collection associated with the evaluation of monitored natural attenuation (MNA) as a corrective measure for the AP. The fieldwork included new soil borings, collection of soil samples, and geochemical testing. The results of this fieldwork and data collection will be utilized to evaluate the reliability, including the potential for reversibility, of MNA relative to other types of corrective measures.

Circumstance 2: Physical size of the AP, Potential Conflicts with Closure, Existing Site Features, and Adjacent Wetlands and Floodplains

The evaluation of performance and reliability of corrective measures at the AP will be complicated by physical challenges and constraints around effectively implementing corrective measures at the site. The challenges include, but are not limited to:

- The AP has a total surface area of approximately 102 acres [2] and a perimeter of approximately 8,800 feet.
- A significant amount of existing site infrastructure is present at or adjacent to the AP. The infrastructure includes, but is not limited to [2]:
    - Seven sets of overhead power lines cross the AP, some of which are high voltage.
    - A rail loop is located at the crest of the AP embankment dikes.
    - A sewer forcemain, which currently serves and will continue in the future to serve both the EPP and adjacent offsite industry, is located within the northwestern AP perimeter dikes.
        - A branch of the sewer forcemain also passes beneath the AP and will be abandoned as part of closure.
    - A surface water drainage feature is located along the western perimeter of the AP. This feature, which contains surface water during normal conditions, is directly adjacent to the toe of the EAP dike and allows offsite stormwater drainages to flow around the AP and towards the Illinois River.

- Closure of the AP, in accordance with the Closure Plan and Construction Permit application submitted to IEPA on June 29, 2022 [2], will be a large-scale construction project.
    - Closure will be a consolidate-and-cap approach where coal combustion residuals (CCR) will be removed from a 33-acre area inside the AP and consolidated into 69-acre area.
    - Closure will result in moving approximately 1.3 million cubic yards of CCR and subgrade soils over a period of 1.5 to 2 years.
- Areas adjacent to the AP have been identified as both potential freshwater forested shrub wetlands and freshwater emergent wetlands by the U.S. Fish and Wildlife Service [3].
- Naturally occurring methane gas, which can be explosive at certain concentrations, is known to be present in the groundwater at the AP, as observed during field activities completed in 2021 [4]. The methane gas can cause a safety and environmental hazard to intrusive activities associated with corrective action implementation, including, but not limited to, the advancement of exploratory borings, monitoring wells, or other physical features which are installed in the subsurface.

These factors will require substantial additional effort to evaluate the physical location and dimensions of any proposed corrective action which consider the size of the AP, limit impacts to existing site infrastructure and proposed closure construction, and considers the potential for hazardous methane gas. Additionally, any proposed corrective action will need to minimize impacts to environmental sensitive wetlands and surface water drainage features.

Circumstance 3: Future Solar Development
The ease of implementation and time required to begin and complete corrective action at the AP may be affected by potential future solar development at the site. Company affiliates are in the planning stages of developing an approximately 19-acre megawatt solar facility over the closed-in-place AP [2], which could provide renewable, low-carbon energy to Illinois while repurposing the AP into productive land use. Additional time is required to evaluate potential conflicts between the future solar development that is being considered and potential corrective measures.

Circumstance 4: Low Permeability of Foundation Clay Soils and Estimated Time to Meet GWPS
The time required for corrective action to be completed will be affected by low-permeability soils and relatively long estimated times to meet GWPSs at the AP, based on previous groundwater modeling performed as part of closure planning [5].

- The AP is underlain by unlithified geologic materials including the Upper Cahokia Formation and Lower Cahokia Formation, which in turn overlie very low permeability shale and siltstone bedrock. The hydraulic conductivity values in the unlithified geological materials, as measured from field tests, range from 7.9×10^{-8} to 2.2×10^{-3} to centimeters per second (cm/sec) [4].
- Time to meet GWPSs after closure is complete is estimated to be 382 years for most wells, but as long as 767 years for two wells [5].

Additional time will be required for the CMA to address these site-specific conditions.

REFERENCES

[1] Ramboll Americas Engineering Solutions, Inc., "35 I.A.C. § 845.610(B)(3)(D) Groundwater Monitoring Data and Detected Exceedances, 2023 Quarter 2, Ash Pond, Edwards Power Plant," October 8, 2023.

[2] IngenAE, LLC, "Construction Permit Application, Edwards Power Station, Ash Pond, Bartonville, Illinois," June 2022.

[3] U.S. Fish and Wildlife Service, "National Wetlands Inventory, surface waters and wetlands," [Online]. Available: https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/. [Accessed 25 09 2023].

[4] Ramboll Americas Engineering Solutions. Inc., "Hydrogeologic Site Characterization Report, Ash Pond, Edwards Power Plant, Bartonville, Illinois," October 25, 2021.

[5] Ramboll Americas Engineering Solutions, Inc., "Groundwater Modeling Report, Ash Pond, Edwards Power Plant, Bartonville, Illinois," June 30, 2022.

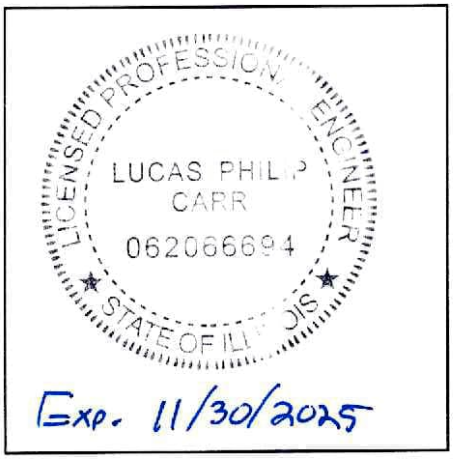
CERTIFICATION STATEMENT

CCR Unit: Illinois Power Generating Company - IPGC; Edwards Power Plant, Ash Pond
IEPA ID: W1438050005-01

I, Lucas P. Carr, being a Registered Professional Engineer in good standing with the state of Illinois, do herby certify, to the best of my knowledge, information, and belief that the information contained in this certification has been prepared in accordance with the accepted practice of engineering. I certify, for the above referenced CCR unit, that the 60-day extension demonstration for the Corrective Measures Assessment has been prepared in accordance with 35 I.A.C. § 845.600(a)(2) and is accurate.

Lucas P. Carr, P.E.
Senior Managing Consultant

12/7/2023
Date



ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 · (217) 782-3397

JB PRITZKER, GOVERNOR JOHN J. KIM, DIRECTOR

217-782-1020

December 7, 2023

Illinois Power Resources Generating, LLC
7800 Cilco Lane
Peoria, IL 61607

Re: **Edwards Ash Pond**
Corrective Measures Assessment Schedule Extension Demonstration Response Acceptance

Dear Plant Operator,

This letter is to acknowledge the December 7, 2023, correspondence from Dianna Tickner concerning a Corrective Measures Assessment Schedule Extension. The Illinois Environmental Protection Agency has reviewed the demonstration and approves the 60-day extension.

If you have any additional questions regarding this correspondence, please contact Justin Bierwagen, Project Manager at the number referenced above.

Sincerely,

Michael Summers, P.G.
Manager, Groundwater Section
Division of Public Water Supplies
Bureau of Water

cc: Justin Bierwagen
Francisco Herrera
Phil Morris, Luminant, 1500 Eastport Plaza Dr. Collinsville, IL. 62234
Records W1438050005-06M

ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND

- **ATTACHMENT C FROM THE QUARTER 2, 2023 GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES REPORT (RAMBOLL, 2023a)**

- **ATTACHMENT C FROM THE QUARTER 3, 2023 GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES REPORT (RAMBOLL, 2023b)**

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AP07S	PMP	E001	Antimony, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.003	0.003
AP07S	PMP	E001	Arsenic, total	mg/L	02/10/21 - 06/15/23	10	80	CI around median	0.001	0.0300
AP07S	PMP	E001	Barium, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	0.0791	2.07
AP07S	PMP	E001	Beryllium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.00190
AP07S	PMP	E001	Boron, total	mg/L	02/10/21 - 06/15/23	10	0	CB around linear reg	6.94	0.535
AP07S	PMP	E001	Cadmium, total	mg/L	02/10/21 - 06/15/23	10	90	CI around median	0.001	0.00100
AP07S	PMP	E001	Chloride, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	72.5	56.0
AP07S	PMP	E001	Chromium, total	mg/L	02/10/21 - 06/15/23	10	60	CI around median	0.004	0.0480
AP07S	PMP	E001	Cobalt, total	mg/L	02/10/21 - 06/15/23	10	0	CI around mean	0.00228	0.0280
AP07S	PMP	E001	Fluoride, total	mg/L	02/10/21 - 06/15/23	10	70	CB around T-S line	-2.23	0.396
AP07S	PMP	E001	Lead, total	mg/L	02/10/21 - 06/15/23	10	50	CI around median	0.001	0.0330
AP07S	PMP	E001	Lithium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.02	0.0710
AP07S	PMP	E001	Mercury, total	mg/L	02/10/21 - 06/15/23	10	90	CI around median	0.0002	0.0002
AP07S	PMP	E001	Molybdenum, total	mg/L	02/10/21 - 06/15/23	10	50	CI around median	0.001	0.00620
AP07S	PMP	E001	pH (field)	SU	02/10/21 - 06/15/23	10	0	CI around mean	6.5/6.9	6.3/7.1
AP07S	PMP	E001	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 06/15/23	10	0	CI around mean	0.452	9.60
AP07S	PMP	E001	Selenium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.00320
AP07S	PMP	E001	Sulfate, total	mg/L	02/10/21 - 06/15/23	10	0	CI around median	160	6.48
AP07S	PMP	E001	Thallium, total	mg/L	02/10/21 - 06/15/23	10	100	All ND - Last	0.001	0.001
AP07S	PMP	E001	Total Dissolved Solids	mg/L	02/10/21 - 06/15/23	10	0	CB around linear reg	224	1,050
AW-01	PMP	E001	Antimony, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.003	0.003
AW-01	PMP	E001	Arsenic, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	-0.00267	0.0300
AW-01	PMP	E001	Barium, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.0903	2.07
AW-01	PMP	E001	Beryllium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.00190
AW-01	PMP	E001	Boron, total	mg/L	11/18/22 - 06/14/23	5	0	CI around median (Last Sample, n<7)	0.072	0.535
AW-01	PMP	E001	Cadmium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.00100
AW-01	PMP	E001	Chloride, total	mg/L	11/18/22 - 06/14/23	5	0	CI around geomean	4.14	56.0

ATTACHMENT C.
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-01	PMP	E001	Chromium, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.004	0.0480
AW-01	PMP	E001	Cobalt, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.00199	0.0280
AW-01	PMP	E001	Fluoride, total	mg/L	11/18/22 - 06/14/23	5	60	CI around median (Last Sample, n<7)	0.25	0.396
AW-01	PMP	E001	Lead, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.001	0.0330
AW-01	PMP	E001	Lithium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.02	0.0710
AW-01	PMP	E001	Mercury, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.0002	0.0002
AW-01	PMP	E001	Molybdenum, total	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	0.00159	0.00620
AW-01	PMP	E001	pH (field)	SU	11/18/22 - 06/14/23	5	0	CI around mean	6.6/7.3	6.3/7.1
AW-01	PMP	E001	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 06/14/23	5	0	CI around mean	-0.997	9.60
AW-01	PMP	E001	Selenium, total	mg/L	11/18/22 - 06/14/23	5	80	CI around median (Last Sample, n<7)	0.001	0.00320
AW-01	PMP	E001	Sulfate, total	mg/L	11/18/22 - 06/14/23	5	0	CI around median (Last Sample, n<7)	52	6.48
AW-01	PMP	E001	Thallium, total	mg/L	11/18/22 - 06/14/23	5	100	All ND - Last	0.001	0.001
AW-01	PMP	E001	Total Dissolved Solids	mg/L	11/18/22 - 06/14/23	5	0	CI around mean	664	1,050
AW-05	UA	E001	Antimony, total	mg/L	11/09/15 - 06/15/23	14	93	Most recent sample	0.003	0.003
AW-05	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/15/23	14	0	CI around geomean	0.00403	0.0300
AW-05	UA	E001	Barium, total	mg/L	11/09/15 - 06/15/23	14	0	CI around mean	0.144	2.07
AW-05	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/15/23	13	85	CI around median	0.001	0.00190
AW-05	UA	E001	Boron, total	mg/L	11/09/15 - 06/15/23	15	0	CI around geomean	1.88	0.535
AW-05	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/15/23	14	86	CI around median	0.001	0.00100
AW-05	UA	E001	Chloride, total	mg/L	11/09/15 - 06/15/23	15	0	CB around linear reg	-208	56.0
AW-05	UA	E001	Chromium, total	mg/L	11/09/15 - 06/15/23	14	36	CI around geomean	0.00573	0.0480
AW-05	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/15/23	14	21	CI around geomean	0.00336	0.0280
AW-05	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/15/23	15	47	CI around median	0.25	0.396
AW-05	UA	E001	Lead, total	mg/L	11/09/15 - 06/15/23	13	38	CI around geomean	0.00156	0.0330
AW-05	UA	E001	Lithium, total	mg/L	11/09/15 - 06/15/23	14	21	CI around geomean	0.0217	0.0710
AW-05	UA	E001	Mercury, total	mg/L	11/09/15 - 06/15/23	14	100	All ND - Last	0.0002	0.0002
AW-05	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/15/23	14	0	CI around mean	0.00202	0.00620

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-05	UA	E001	pH (field)	SU	11/09/15 - 06/15/23	15	0	CI around mean	6.9/7.1	6.3/7.1
AW-05	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/15/23	14	0	CI around mean	0.75	9.60
AW-05	UA	E001	Selenium, total	mg/L	11/09/15 - 06/15/23	14	43	CI around median	0.001	0.00320
AW-05	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/15/23	15	0	CI around mean	283	6.48
AW-05	UA	E001	Thallium, total	mg/L	11/09/15 - 06/15/23	13	100	All ND - Last	0.001	0.001
AW-05	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/15/23	15	0	CI around geomean	1,000	1,050
AW-06	UA	E001	Antimony, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.003	0.003
AW-06	UA	E001	Arsenic, total	mg/L	11/10/15 - 06/14/23	20	0	CI around geomean	0.00286	0.0300
AW-06	UA	E001	Barium, total	mg/L	11/10/15 - 06/14/23	20	0	CI around median	0.16	2.07
AW-06	UA	E001	Beryllium, total	mg/L	11/10/15 - 06/14/23	20	85	CI around median	0.001	0.00190
AW-06	UA	E001	Boron, total	mg/L	11/10/15 - 06/14/23	21	0	CB around T-S line	-0.018	0.535
AW-06	UA	E001	Cadmium, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.001	0.00100
AW-06	UA	E001	Chloride, total	mg/L	11/10/15 - 06/14/23	21	0	CB around T-S line	1.72	56.0
AW-06	UA	E001	Chromium, total	mg/L	11/10/15 - 06/14/23	20	50	CI around median	0.004	0.0480
AW-06	UA	E001	Cobalt, total	mg/L	11/10/15 - 06/14/23	20	55	CI around median	0.002	0.0280
AW-06	UA	E001	Fluoride, total	mg/L	11/10/15 - 06/14/23	21	10	CI around median	0.319	0.396
AW-06	UA	E001	Lead, total	mg/L	11/10/15 - 06/14/23	20	35	CI around median	0.001	0.0330
AW-06	UA	E001	Lithium, total	mg/L	11/10/15 - 06/14/23	20	40	CI around mean	0.0135	0.0710
AW-06	UA	E001	Mercury, total	mg/L	11/10/15 - 06/14/23	15	93	CI around median	0.0002	0.0002
AW-06	UA	E001	Molybdenum, total	mg/L	11/10/15 - 06/14/23	20	0	CI around mean	0.00474	0.00620
AW-06	UA	E001	pH (field)	SU	11/10/15 - 06/14/23	21	0	CI around median	7.1/7.2	6.3/7.1
AW-06	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 06/14/23	20	0	CI around mean	0.725	9.60
AW-06	UA	E001	Selenium, total	mg/L	11/10/15 - 06/14/23	20	70	CI around median	0.001	0.00320
AW-06	UA	E001	Sulfate, total	mg/L	11/10/15 - 06/14/23	21	0	CB around linear reg	16.8	6.48
AW-06	UA	E001	Thallium, total	mg/L	11/10/15 - 06/14/23	15	100	All ND - Last	0.001	0.001
AW-06	UA	E001	Total Dissolved Solids	mg/L	11/10/15 - 06/14/23	21	0	CI around mean	505	1,050
AW-09	UA	E001	Antimony, total	mg/L	11/10/15 - 06/12/23	15	100	All ND - Last	0.003	0.003

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-09	UA	E001	Arsenic, total	mg/L	11/10/15 - 06/12/23	20	15	CI around mean	0.00971	0.0300
AW-09	UA	E001	Barium, total	mg/L	11/10/15 - 06/12/23	20	0	CI around geomean	0.273	2.07
AW-09	UA	E001	Beryllium, total	mg/L	11/10/15 - 06/12/23	20	80	CB around T-S line	-0.00127	0.00190
AW-09	UA	E001	Boron, total	mg/L	11/10/15 - 06/12/23	21	0	CB around linear reg	-0.197	0.535
AW-09	UA	E001	Cadmium, total	mg/L	11/10/15 - 06/12/23	15	87	CI around median	0.001	0.00100
AW-09	UA	E001	Chloride, total	mg/L	11/10/15 - 06/12/23	21	0	CI around median	27	56.0
AW-09	UA	E001	Chromium, total	mg/L	11/10/15 - 06/12/23	20	50	CB around T-S line	-0.0731	0.0480
AW-09	UA	E001	Cobalt, total	mg/L	11/10/15 - 06/12/23	20	5	CB around T-S line	-0.0405	0.0280
AW-09	UA	E001	Fluoride, total	mg/L	11/10/15 - 06/12/23	21	57	CB around T-S line	0.168	0.396
AW-09	UA	E001	Lead, total	mg/L	11/10/15 - 06/12/23	20	45	CI around median	0.001	0.0330
AW-09	UA	E001	Lithium, total	mg/L	11/10/15 - 06/12/23	20	25	CB around T-S line	-0.0899	0.0710
AW-09	UA	E001	Mercury, total	mg/L	11/10/15 - 06/12/23	15	93	CI around median	0.0002	0.0002
AW-09	UA	E001	Molybdenum, total	mg/L	11/10/15 - 06/12/23	20	0	CI around mean	0.0134	0.00620
AW-09	UA	E001	pH (field)	SU	11/10/15 - 06/12/23	21	0	CI around mean	6.8/7.0	6.3/7.1
AW-09	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 06/12/23	20	0	CI around median	0.633	9.60
AW-09	UA	E001	Selenium, total	mg/L	11/10/15 - 06/12/23	20	60	CB around T-S line	-0.00401	0.00320
AW-09	UA	E001	Sulfate, total	mg/L	11/10/15 - 06/12/23	21	48	CB around linear reg	-15.8	6.48
AW-09	UA	E001	Thallium, total	mg/L	11/10/15 - 06/12/23	15	93	CI around median	0.001	0.001
AW-09	UA	E001	Total Dissolved Solids	mg/L	11/10/15 - 06/12/23	21	0	CB around T-S line	712	1,050
AW-10	UA	E001	Antimony, total	mg/L	11/09/15 - 06/13/23	16	100	All ND - Last	0.003	0.003
AW-10	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/13/23	21	0	CI around geomean	0.0076	0.0300
AW-10	UA	E001	Barium, total	mg/L	11/09/15 - 06/13/23	21	0	CI around median	0.98	2.07
AW-10	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/13/23	21	76	CI around median	0.001	0.00190
AW-10	UA	E001	Boron, total	mg/L	11/09/15 - 06/13/23	22	0	CI around mean	0.46	0.535
AW-10	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.001	0.00100
AW-10	UA	E001	Chloride, total	mg/L	11/09/15 - 06/13/23	22	0	CI around mean	87.3	56.0
AW-10	UA	E001	Chromium, total	mg/L	11/09/15 - 06/13/23	21	38	CI around median	0.004	0.0480

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AW-10	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/13/23	21	5	CI around geomean	0.00338	0.0280
AW-10	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/13/23	22	96	CI around median	0.25	0.396
AW-10	UA	E001	Lead, total	mg/L	11/09/15 - 06/13/23	21	14	CI around geomean	0.0017	0.0330
AW-10	UA	E001	Lithium, total	mg/L	11/09/15 - 06/13/23	21	0	CB around T-S line	-0.0329	0.0710
AW-10	UA	E001	Mercury, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.0002	0.0002
AW-10	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/13/23	21	29	CB around T-S line	-0.000917	0.00620
AW-10	UA	E001	pH (field)	SU	11/09/15 - 06/13/23	23	0	CI around mean	6.9/7.1	6.3/7.1
AW-10	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/13/23	21	0	CI around mean	2.18	9.60
AW-10	UA	E001	Selenium, total	mg/L	11/09/15 - 06/13/23	21	62	CI around median	0.001	0.00320
AW-10	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/13/23	22	77	CB around T-S line	0.225	6.48
AW-10	UA	E001	Thallium, total	mg/L	11/09/15 - 06/13/23	16	94	CI around median	0.001	0.001
AW-10	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/13/23	22	0	CI around median	1,100	1,050
AW-11	UA	E001	Antimony, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.003	0.003
AW-11	UA	E001	Arsenic, total	mg/L	11/09/15 - 06/13/23	20	0	CI around mean	0.00942	0.0300
AW-11	UA	E001	Barium, total	mg/L	11/09/15 - 06/13/23	20	0	CI around geomean	0.871	2.07
AW-11	UA	E001	Beryllium, total	mg/L	11/09/15 - 06/13/23	20	75	CI around median	0.001	0.00190
AW-11	UA	E001	Boron, total	mg/L	11/09/15 - 06/13/23	21	0	CI around mean	0.219	0.535
AW-11	UA	E001	Cadmium, total	mg/L	11/09/15 - 06/13/23	15	80	CI around median	0.001	0.00100
AW-11	UA	E001	Chloride, total	mg/L	11/09/15 - 06/13/23	21	0	CI around mean	31.1	56.0
AW-11	UA	E001	Chromium, total	mg/L	11/09/15 - 06/13/23	20	45	CB around T-S line	-0.0209	0.0480
AW-11	UA	E001	Cobalt, total	mg/L	11/09/15 - 06/13/23	20	20	CB around T-S line	-0.0103	0.0280
AW-11	UA	E001	Fluoride, total	mg/L	11/09/15 - 06/13/23	21	86	CI around median	0.25	0.396
AW-11	UA	E001	Lead, total	mg/L	11/09/15 - 06/13/23	20	35	CB around T-S line	-0.0148	0.0330
AW-11	UA	E001	Lithium, total	mg/L	11/09/15 - 06/13/23	20	15	CB around T-S line	-0.0269	0.0710
AW-11	UA	E001	Mercury, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.0002	0.0002
AW-11	UA	E001	Molybdenum, total	mg/L	11/09/15 - 06/13/23	20	5	CB around linear reg	-0.00162	0.00620
AW-11	UA	E001	pH (field)	SU	11/09/15 - 06/13/23	21	0	CI around median	6.9/7.2	6.3/7.1

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AW-11	UA	E001	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 06/13/23	20	0	CI around mean	1.73	9.60
AW-11	UA	E001	Selenium, total	mg/L	11/09/15 - 06/13/23	20	65	CI around median	0.001	0.00320
AW-11	UA	E001	Sulfate, total	mg/L	11/09/15 - 06/13/23	21	62	CB around T-S line	-0.0244	6.48
AW-11	UA	E001	Thallium, total	mg/L	11/09/15 - 06/13/23	15	100	All ND - Last	0.001	0.001
AW-11	UA	E001	Total Dissolved Solids	mg/L	11/09/15 - 06/13/23	21	0	CB around T-S line	961	1,050
AW-14	UA	E001	Antimony, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.003	0.003
AW-14	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	0.00745	0.0300
AW-14	UA	E001	Barium, total	mg/L	02/11/21 - 06/13/23	9	0	CB around linear reg	0.62	2.07
AW-14	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.00190
AW-14	UA	E001	Boron, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	0.17	0.535
AW-14	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.00100
AW-14	UA	E001	Chloride, total	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	21.9	56.0
AW-14	UA	E001	Chromium, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.004	0.0480
AW-14	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/13/23	9	0	CB around linear reg	-0.00451	0.0280
AW-14	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/13/23	9	78	CI around median	0.25	0.396
AW-14	UA	E001	Lead, total	mg/L	02/11/21 - 06/13/23	9	67	CI around median	0.001	0.0330
AW-14	UA	E001	Lithium, total	mg/L	02/11/21 - 06/13/23	9	44	CI around mean	0.0189	0.0710
AW-14	UA	E001	Mercury, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.0002	0.0002
AW-14	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/13/23	9	33	CI around geomean	0.00127	0.00620
AW-14	UA	E001	pH (field)	SU	02/11/21 - 06/13/23	9	0	CI around mean	6.8/7.0	6.3/7.1
AW-14	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/13/23	9	0	CI around mean	1.78	9.60
AW-14	UA	E001	Selenium, total	mg/L	02/11/21 - 06/13/23	9	89	CI around median	0.001	0.00320
AW-14	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/13/23	9	22	CI around geomean	1.32	6.48
AW-14	UA	E001	Thallium, total	mg/L	02/11/21 - 06/13/23	9	100	All ND - Last	0.001	0.001
AW-14	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/13/23	9	0	CI around mean	893	1,050
AW-15	UA	E001	Antimony, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.003	0.003
AW-15	UA	E001	Arsenic, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.00203	0.0300

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AW-15	UA	E001	Barium, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	1.54	2.07
AW-15	UA	E001	Beryllium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.00190
AW-15	UA	E001	Boron, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.315	0.535
AW-15	UA	E001	Cadmium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.00100
AW-15	UA	E001	Chloride, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	33	56.0
AW-15	UA	E001	Chromium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.004	0.0480
AW-15	UA	E001	Cobalt, total	mg/L	02/12/21 - 06/12/23	7	86	CI around median	0.002	0.0280
AW-15	UA	E001	Fluoride, total	mg/L	02/12/21 - 06/12/23	7	71	CI around median	0.25	0.396
AW-15	UA	E001	Lead, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.0330
AW-15	UA	E001	Lithium, total	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	0.0281	0.0710
AW-15	UA	E001	Mercury, total	mg/L	02/12/21 - 06/12/23	7	86	CI around median	0.0002	0.0002
AW-15	UA	E001	Molybdenum, total	mg/L	02/12/21 - 06/12/23	7	71	CI around median	0.001	0.00620
AW-15	UA	E001	pH (field)	SU	02/12/21 - 06/12/23	6	0	CI around mean	6.6/6.9	6.3/7.1
AW-15	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 06/12/23	7	0	CI around mean	2.01	9.60
AW-15	UA	E001	Selenium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.00320
AW-15	UA	E001	Sulfate, total	mg/L	02/12/21 - 06/12/23	7	86	Most recent sample	1	6.48
AW-15	UA	E001	Thallium, total	mg/L	02/12/21 - 06/12/23	7	100	All ND - Last	0.001	0.001
AW-15	UA	E001	Total Dissolved Solids	mg/L	02/12/21 - 06/12/23	7	0	CI around mean	827	1,050
AW-15S	PMP	E001	Antimony, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.003	0.003
AW-15S	PMP	E001	Arsenic, total	mg/L	02/12/21 - 06/12/23	10	50	CI around median	0.001	0.0300
AW-15S	PMP	E001	Barium, total	mg/L	02/12/21 - 06/12/23	10	0	CB around T-S line	-0.528	2.07
AW-15S	PMP	E001	Beryllium, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.001	0.00190
AW-15S	PMP	E001	Boron, total	mg/L	02/12/21 - 06/12/23	10	0	CI around mean	5.43	0.535
AW-15S	PMP	E001	Cadmium, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.001	0.00100
AW-15S	PMP	E001	Chloride, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	18.8	56.0
AW-15S	PMP	E001	Chromium, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.004	0.0480
AW-15S	PMP	E001	Cobalt, total	mg/L	02/12/21 - 06/12/23	10	90	CI around median	0.002	0.0280

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AW-15S	PMP	E001	Fluoride, total	mg/L	02/12/21 - 06/12/23	10	40	CI around median	0.25	0.396
AW-15S	PMP	E001	Lead, total	mg/L	02/12/21 - 06/12/23	10	80	CI around median	0.001	0.0330
AW-15S	PMP	E001	Lithium, total	mg/L	02/12/21 - 06/12/23	10	80	CI around median	0.02	0.0710
AW-15S	PMP	E001	Mercury, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.0002	0.0002
AW-15S	PMP	E001	Molybdenum, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	0.00181	0.00620
AW-15S	PMP	E001	pH (field)	SU	02/12/21 - 06/12/23	10	0	CB around linear reg	6.3/7.1	6.3/7.1
AW-15S	PMP	E001	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 06/12/23	9	0	CI around mean	0.184	9.60
AW-15S	PMP	E001	Selenium, total	mg/L	02/12/21 - 06/12/23	10	40	CI around mean	0.000931	0.00320
AW-15S	PMP	E001	Sulfate, total	mg/L	02/12/21 - 06/12/23	10	0	CB around linear reg	480	6.48
AW-15S	PMP	E001	Thallium, total	mg/L	02/12/21 - 06/12/23	10	100	All ND - Last	0.001	0.001
AW-15S	PMP	E001	Total Dissolved Solids	mg/L	02/12/21 - 06/12/23	10	0	CI around mean	1,160	1,050
AW-16	UA	E001	Antimony, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.003	0.003
AW-16	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/12/23	10	10	CB around linear reg	0.000917	0.0300
AW-16	UA	E001	Barium, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	1.19	2.07
AW-16	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.00190
AW-16	UA	E001	Boron, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	0.472	0.535
AW-16	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.00100
AW-16	UA	E001	Chloride, total	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	49.5	56.0
AW-16	UA	E001	Chromium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.004	0.0480
AW-16	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.002	0.0280
AW-16	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.25	0.396
AW-16	UA	E001	Lead, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.0330
AW-16	UA	E001	Lithium, total	mg/L	02/11/21 - 06/12/23	10	0	CI around median	0.036	0.0710
AW-16	UA	E001	Mercury, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.0002	0.0002
AW-16	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.00620
AW-16	UA	E001	pH (field)	SU	02/11/21 - 06/12/23	10	0	CI around median	6.5/6.8	6.3/7.1
AW-16	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/12/23	10	0	CI around mean	4.02	9.60

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AW-16	UA	E001	Selenium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.00320
AW-16	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/12/23	10	90	CI around median	1	6.48
AW-16	UA	E001	Thallium, total	mg/L	02/11/21 - 06/12/23	10	100	All ND - Last	0.001	0.001
AW-16	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/12/23	10	0	CI around mean	1,030	1,050
AW-17	UA	E001	Antimony, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.003	0.003
AW-17	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.00485	0.0300
AW-17	UA	E001	Barium, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	1.05	2.07
AW-17	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.00190
AW-17	UA	E001	Boron, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.414	0.535
AW-17	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.00100
AW-17	UA	E001	Chloride, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	51.7	56.0
AW-17	UA	E001	Chromium, total	mg/L	02/11/21 - 06/13/23	10	60	CI around median	0.004	0.0480
AW-17	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.00197	0.0280
AW-17	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/13/23	10	90	CI around median	0.25	0.396
AW-17	UA	E001	Lead, total	mg/L	02/11/21 - 06/13/23	10	60	CI around median	0.001	0.0330
AW-17	UA	E001	Lithium, total	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	0.0336	0.0710
AW-17	UA	E001	Mercury, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.0002	0.0002
AW-17	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/13/23	10	30	CI around mean	0.00102	0.00620
AW-17	UA	E001	pH (field)	SU	02/11/21 - 06/13/23	10	0	CI around mean	6.6/7.0	6.3/7.1
AW-17	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/13/23	10	0	CI around mean	2.59	9.60
AW-17	UA	E001	Selenium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.00320
AW-17	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	1	6.48
AW-17	UA	E001	Thallium, total	mg/L	02/11/21 - 06/13/23	10	100	All ND - Last	0.001	0.001
AW-17	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/13/23	10	0	CI around mean	797	1,050
AW-18	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.003
AW-18	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.00334	0.0300
AW-18	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	0.962	2.07

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-18	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00190
AW-18	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.614	0.535
AW-18	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00100
AW-18	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	70.9	56.0
AW-18	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.004	0.0480
AW-18	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.002	0.0280
AW-18	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	40	CI around median	0.25	0.396
AW-18	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	80	CI around median	0.001	0.0330
AW-18	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	-0.0455	0.0710
AW-18	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.0002
AW-18	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	-0.0197	0.00620
AW-18	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	6.7/7.0	6.3/7.1
AW-18	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	2.08	9.60
AW-18	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.00320
AW-18	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	3.71	6.48
AW-18	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.001
AW-18	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	770	1,050
AW-19	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.003
AW-19	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0112	0.0300
AW-19	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	0.18	2.07
AW-19	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00190
AW-19	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	2.47	0.535
AW-19	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00100
AW-19	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	76.5	56.0
AW-19	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.004	0.0480
AW-19	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	70	CI around median	0.002	0.0280
AW-19	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.284	0.396

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-19	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	40	CI around geomean	0.00101	0.0330
AW-19	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	60	CI around median	0.02	0.0710
AW-19	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.0002
AW-19	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CI around geomean	0.00327	0.00620
AW-19	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	6.8/7.2	6.3/7.1
AW-19	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	0.267	9.60
AW-19	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00320
AW-19	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	43.4	6.48
AW-19	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.001
AW-19	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	542	1,050
AW-21	UA	E001	Antimony, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.003	0.003
AW-21	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/14/23	10	10	CB around linear reg	0.00113	0.0300
AW-21	UA	E001	Barium, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0617	2.07
AW-21	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00190
AW-21	UA	E001	Boron, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	10.3	0.535
AW-21	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.00100
AW-21	UA	E001	Chloride, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	93	56.0
AW-21	UA	E001	Chromium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.004	0.0480
AW-21	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.002	0.0280
AW-21	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/14/23	10	0	CB around linear reg	0.0598	0.396
AW-21	UA	E001	Lead, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.0330
AW-21	UA	E001	Lithium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.02	0.0710
AW-21	UA	E001	Mercury, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.0002	0.0002
AW-21	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	0.0157	0.00620
AW-21	UA	E001	pH (field)	SU	02/11/21 - 06/14/23	10	0	CI around mean	7.0/7.5	6.3/7.1
AW-21	UA	E001	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 06/14/23	10	0	CI around mean	0.345	9.60
AW-21	UA	E001	Selenium, total	mg/L	02/11/21 - 06/14/23	10	90	CI around median	0.001	0.00320

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-21	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/14/23	10	0	CI around median	230	6.48
AW-21	UA	E001	Thallium, total	mg/L	02/11/21 - 06/14/23	10	100	All ND - Last	0.001	0.001
AW-21	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/14/23	10	0	CI around mean	641	1,050

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

PMP = Potential Migration Pathway

UA = Uppermost Aquifer

mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AP07S	PMP	E002	Antimony, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.003	0.003
AP07S	PMP	E002	Arsenic, total	mg/L	02/10/21 - 08/28/23	11	82	CI around median	0.001	0.0300
AP07S	PMP	E002	Barium, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	0.0778	2.07
AP07S	PMP	E002	Beryllium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.00190
AP07S	PMP	E002	Boron, total	mg/L	02/10/21 - 08/28/23	11	0	CB around linear reg	6.34	0.535
AP07S	PMP	E002	Cadmium, total	mg/L	02/10/21 - 08/28/23	11	82	CI around median	0.001	0.00100
AP07S	PMP	E002	Chloride, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	73.7	56.0
AP07S	PMP	E002	Chromium, total	mg/L	02/10/21 - 08/28/23	11	64	CI around median	0.004	0.0480
AP07S	PMP	E002	Cobalt, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	0.00235	0.0280
AP07S	PMP	E002	Fluoride, total	mg/L	02/10/21 - 08/28/23	11	73	CB around T-S line	-1.69	0.396
AP07S	PMP	E002	Lead, total	mg/L	02/10/21 - 08/28/23	11	54	CI around median	0.001	0.0330
AP07S	PMP	E002	Lithium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.02	0.0710
AP07S	PMP	E002	Mercury, total	mg/L	02/10/21 - 08/28/23	11	91	CI around median	0.0002	0.0002
AP07S	PMP	E002	Molybdenum, total	mg/L	02/10/21 - 08/28/23	11	46	CI around median	0.001	0.00620
AP07S	PMP	E002	pH (field)	SU	02/10/21 - 08/28/23	11	0	CI around mean	6.5/6.9	6.3/7.1
AP07S	PMP	E002	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 08/28/23	11	0	CI around mean	0.535	9.60
AP07S	PMP	E002	Selenium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.00320
AP07S	PMP	E002	Sulfate, total	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	204	6.48
AP07S	PMP	E002	Thallium, total	mg/L	02/10/21 - 08/28/23	11	100	All ND - Last	0.001	0.001
AP07S	PMP	E002	Total Dissolved Solids	mg/L	02/10/21 - 08/28/23	11	0	CI around mean	783	1,050
AW-01	PMP	E002	Antimony, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.003	0.003
AW-01	PMP	E002	Arsenic, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	-0.000517	0.0300
AW-01	PMP	E002	Barium, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.101	2.07
AW-01	PMP	E002	Beryllium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.00190
AW-01	PMP	E002	Boron, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	0.092	0.535
AW-01	PMP	E002	Cadmium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.00100
AW-01	PMP	E002	Chloride, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	12	56.0

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-01	PMP	E002	Chromium, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.004	0.0480
AW-01	PMP	E002	Cobalt, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.0025	0.0280
AW-01	PMP	E002	Fluoride, total	mg/L	11/18/22 - 08/22/23	6	50	CI around mean	0.245	0.396
AW-01	PMP	E002	Lead, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.001	0.0330
AW-01	PMP	E002	Lithium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.02	0.0710
AW-01	PMP	E002	Mercury, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.0002	0.0002
AW-01	PMP	E002	Molybdenum, total	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	0.00212	0.00620
AW-01	PMP	E002	pH (field)	SU	11/18/22 - 08/22/23	6	0	CI around mean	6.6/7.2	6.3/7.1
AW-01	PMP	E002	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 08/22/23	6	0	CI around mean	-0.466	9.60
AW-01	PMP	E002	Selenium, total	mg/L	11/18/22 - 08/22/23	6	83	CI around median (Last Sample, n<7)	0.001	0.00320
AW-01	PMP	E002	Sulfate, total	mg/L	11/18/22 - 08/22/23	6	0	CI around median (Last Sample, n<7)	52	6.48
AW-01	PMP	E002	Thallium, total	mg/L	11/18/22 - 08/22/23	6	100	All ND - Last	0.001	0.001
AW-01	PMP	E002	Total Dissolved Solids	mg/L	11/18/22 - 08/22/23	6	0	CI around mean	708	1,050
AW-05	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	15	93	Most recent sample	0.003	0.003
AW-05	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	15	0	CI around geomean	0.00393	0.0300
AW-05	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	15	0	CI around mean	0.142	2.07
AW-05	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	14	86	CI around median	0.001	0.00190
AW-05	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	16	0	CB around T-S line	2.16	0.535
AW-05	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	15	87	CI around median	0.001	0.00100
AW-05	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	16	0	CB around linear reg	-173	56.0
AW-05	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	15	33	CI around geomean	0.00583	0.0480
AW-05	UA	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	15	20	CI around geomean	0.00348	0.0280
AW-05	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	16	50	CI around median	0.25	0.396
AW-05	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	14	36	CI around geomean	0.00168	0.0330
AW-05	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	15	27	CI around geomean	0.0212	0.0710
AW-05	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	15	93	CI around median	0.0002	0.0002
AW-05	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	15	0	CI around mean	0.00206	0.00620

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-05	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	16	0	CI around mean	6.9/7.1	6.3/7.1
AW-05	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	15	0	CI around mean	0.673	9.60
AW-05	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	15	47	CI around median	0.001	0.00320
AW-05	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	16	0	CI around geomean	288	6.48
AW-05	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	14	100	All ND - Last	0.001	0.001
AW-05	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	16	0	CI around geomean	1,010	1,050
AW-06	UA	E002	Antimony, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.003	0.003
AW-06	UA	E002	Arsenic, total	mg/L	11/10/15 - 08/28/23	21	0	CI around geomean	0.00295	0.0300
AW-06	UA	E002	Barium, total	mg/L	11/10/15 - 08/28/23	21	0	CI around median	0.18	2.07
AW-06	UA	E002	Beryllium, total	mg/L	11/10/15 - 08/28/23	21	86	CI around median	0.001	0.00190
AW-06	UA	E002	Boron, total	mg/L	11/10/15 - 08/28/23	22	0	CB around linear reg	0.0495	0.535
AW-06	UA	E002	Cadmium, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.001	0.00100
AW-06	UA	E002	Chloride, total	mg/L	11/10/15 - 08/28/23	22	0	CB around T-S line	-0.546	56.0
AW-06	UA	E002	Chromium, total	mg/L	11/10/15 - 08/28/23	21	52	CI around median	0.004	0.0480
AW-06	UA	E002	Cobalt, total	mg/L	11/10/15 - 08/28/23	21	57	CI around median	0.002	0.0280
AW-06	UA	E002	Fluoride, total	mg/L	11/10/15 - 08/28/23	22	9	CB around T-S line	0.215	0.396
AW-06	UA	E002	Lead, total	mg/L	11/10/15 - 08/28/23	21	38	CB around T-S line	-0.00334	0.0330
AW-06	UA	E002	Lithium, total	mg/L	11/10/15 - 08/28/23	21	43	CI around mean	0.0134	0.0710
AW-06	UA	E002	Mercury, total	mg/L	11/10/15 - 08/28/23	16	94	CI around median	0.0002	0.0002
AW-06	UA	E002	Molybdenum, total	mg/L	11/10/15 - 08/28/23	21	0	CI around mean	0.00481	0.00620
AW-06	UA	E002	pH (field)	SU	11/10/15 - 08/28/23	22	0	CI around median	7.1/7.2	6.3/7.1
AW-06	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 08/28/23	21	0	CI around mean	0.679	9.60
AW-06	UA	E002	Selenium, total	mg/L	11/10/15 - 08/28/23	21	71	CI around median	0.001	0.00320
AW-06	UA	E002	Sulfate, total	mg/L	11/10/15 - 08/28/23	22	0	CB around linear reg	17.4	6.48
AW-06	UA	E002	Thallium, total	mg/L	11/10/15 - 08/28/23	16	100	All ND - Last	0.001	0.001
AW-06	UA	E002	Total Dissolved Solids	mg/L	11/10/15 - 08/28/23	22	0	CI around mean	507	1,050
AW-09	UA	E002	Antimony, total	mg/L	11/10/15 - 08/29/23	16	100	All ND - Last	0.003	0.003

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-09	UA	E002	Arsenic, total	mg/L	11/10/15 - 08/29/23	21	14	CI around mean	0.0101	0.0300
AW-09	UA	E002	Barium, total	mg/L	11/10/15 - 08/29/23	21	0	CI around geomean	0.278	2.07
AW-09	UA	E002	Beryllium, total	mg/L	11/10/15 - 08/29/23	21	81	CB around T-S line	-0.000697	0.00190
AW-09	UA	E002	Boron, total	mg/L	11/10/15 - 08/29/23	22	0	CB around linear reg	-0.155	0.535
AW-09	UA	E002	Cadmium, total	mg/L	11/10/15 - 08/29/23	16	88	CI around median	0.001	0.00100
AW-09	UA	E002	Chloride, total	mg/L	11/10/15 - 08/29/23	22	0	CI around median	27	56.0
AW-09	UA	E002	Chromium, total	mg/L	11/10/15 - 08/29/23	21	52	CB around T-S line	-0.0626	0.0480
AW-09	UA	E002	Cobalt, total	mg/L	11/10/15 - 08/29/23	21	5	CB around T-S line	-0.0344	0.0280
AW-09	UA	E002	Fluoride, total	mg/L	11/10/15 - 08/29/23	22	59	CB around T-S line	0.182	0.396
AW-09	UA	E002	Lead, total	mg/L	11/10/15 - 08/29/23	21	43	CI around median	0.001	0.0330
AW-09	UA	E002	Lithium, total	mg/L	11/10/15 - 08/29/23	21	29	CB around T-S line	-0.0734	0.0710
AW-09	UA	E002	Mercury, total	mg/L	11/10/15 - 08/29/23	16	94	CI around median	0.0002	0.0002
AW-09	UA	E002	Molybdenum, total	mg/L	11/10/15 - 08/29/23	21	0	CI around mean	0.0137	0.00620
AW-09	UA	E002	pH (field)	SU	11/10/15 - 08/29/23	22	0	CI around mean	6.8/7.0	6.3/7.1
AW-09	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 08/29/23	21	0	CI around median	0.729	9.60
AW-09	UA	E002	Selenium, total	mg/L	11/10/15 - 08/29/23	21	62	CB around T-S line	-0.00292	0.00320
AW-09	UA	E002	Sulfate, total	mg/L	11/10/15 - 08/29/23	22	50	CB around linear reg	-14.6	6.48
AW-09	UA	E002	Thallium, total	mg/L	11/10/15 - 08/29/23	16	94	CI around median	0.001	0.001
AW-09	UA	E002	Total Dissolved Solids	mg/L	11/10/15 - 08/29/23	22	0	CB around T-S line	731	1,050
AW-10	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	17	100	All ND - Last	0.003	0.003
AW-10	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	22	0	CI around geomean	0.0078	0.0300
AW-10	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	22	0	CI around median	0.98	2.07
AW-10	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	22	77	CI around median	0.001	0.00190
AW-10	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	23	0	CI around mean	0.462	0.535
AW-10	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.001	0.00100
AW-10	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	23	0	CI around mean	87.2	56.0
AW-10	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	22	36	CI around median	0.004	0.0480

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AW-10	UA	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	22	4	CI around geomean	0.00352	0.0280
AW-10	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	23	96	CI around median	0.25	0.396
AW-10	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	22	14	CI around geomean	0.00182	0.0330
AW-10	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	22	0	CB around T-S line	-0.0418	0.0710
AW-10	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.0002	0.0002
AW-10	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	22	27	CB around T-S line	-0.000829	0.00620
AW-10	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	24	0	CI around mean	6.9/7.1	6.3/7.1
AW-10	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	22	0	CI around mean	2.27	9.60
AW-10	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	22	64	CB around T-S line	-0.000131	0.00320
AW-10	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	23	78	CB around T-S line	0.0142	6.48
AW-10	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	17	94	CI around median	0.001	0.001
AW-10	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	23	0	CB around T-S line	1,100	1,050
AW-11	UA	E002	Antimony, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.003	0.003
AW-11	UA	E002	Arsenic, total	mg/L	11/09/15 - 08/28/23	21	0	CI around mean	0.0095	0.0300
AW-11	UA	E002	Barium, total	mg/L	11/09/15 - 08/28/23	21	0	CI around geomean	0.871	2.07
AW-11	UA	E002	Beryllium, total	mg/L	11/09/15 - 08/28/23	21	76	CI around median	0.001	0.00190
AW-11	UA	E002	Boron, total	mg/L	11/09/15 - 08/28/23	22	0	CI around geomean	0.22	0.535
AW-11	UA	E002	Cadmium, total	mg/L	11/09/15 - 08/28/23	16	81	CI around median	0.001	0.00100
AW-11	UA	E002	Chloride, total	mg/L	11/09/15 - 08/28/23	22	0	CI around mean	31.1	56.0
AW-11	UA	E002	Chromium, total	mg/L	11/09/15 - 08/28/23	21	48	CB around T-S line	-0.0235	0.0480
AW-11	UA	E002	Cobalt, total	mg/L	11/09/15 - 08/28/23	21	24	CB around T-S line	-0.00755	0.0280
AW-11	UA	E002	Fluoride, total	mg/L	11/09/15 - 08/28/23	22	86	CI around median	0.25	0.396
AW-11	UA	E002	Lead, total	mg/L	11/09/15 - 08/28/23	21	38	CB around T-S line	-0.0111	0.0330
AW-11	UA	E002	Lithium, total	mg/L	11/09/15 - 08/28/23	21	14	CB around T-S line	-0.0266	0.0710
AW-11	UA	E002	Mercury, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.0002	0.0002
AW-11	UA	E002	Molybdenum, total	mg/L	11/09/15 - 08/28/23	21	5	CB around linear reg	-0.00143	0.00620
AW-11	UA	E002	pH (field)	SU	11/09/15 - 08/28/23	22	0	CI around median	6.9/7.2	6.3/7.1

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AW-11	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 08/28/23	21	0	CI around geomean	1.5	9.60
AW-11	UA	E002	Selenium, total	mg/L	11/09/15 - 08/28/23	21	67	CI around median	0.001	0.00320
AW-11	UA	E002	Sulfate, total	mg/L	11/09/15 - 08/28/23	22	64	CB around T-S line	0.11	6.48
AW-11	UA	E002	Thallium, total	mg/L	11/09/15 - 08/28/23	16	100	All ND - Last	0.001	0.001
AW-11	UA	E002	Total Dissolved Solids	mg/L	11/09/15 - 08/28/23	22	0	CB around T-S line	954	1,050
AW-14	UA	E002	Antimony, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.003	0.003
AW-14	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	0.00692	0.0300
AW-14	UA	E002	Barium, total	mg/L	02/11/21 - 08/23/23	10	0	CB around linear reg	0.684	2.07
AW-14	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.00190
AW-14	UA	E002	Boron, total	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	0.171	0.535
AW-14	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.00100
AW-14	UA	E002	Chloride, total	mg/L	02/11/21 - 08/23/23	10	0	CI around geomean	22.5	56.0
AW-14	UA	E002	Chromium, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.004	0.0480
AW-14	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/23/23	10	10	CB around linear reg	-0.00363	0.0280
AW-14	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/23/23	10	80	CI around median	0.25	0.396
AW-14	UA	E002	Lead, total	mg/L	02/11/21 - 08/23/23	10	70	CI around median	0.001	0.0330
AW-14	UA	E002	Lithium, total	mg/L	02/11/21 - 08/23/23	10	50	CI around median	0.02	0.0710
AW-14	UA	E002	Mercury, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.0002	0.0002
AW-14	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/23/23	10	30	CI around geomean	0.00126	0.00620
AW-14	UA	E002	pH (field)	SU	02/11/21 - 08/23/23	10	0	CI around mean	6.8/7.0	6.3/7.1
AW-14	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/23/23	10	0	CI around mean	1.91	9.60
AW-14	UA	E002	Selenium, total	mg/L	02/11/21 - 08/23/23	10	90	CI around median	0.001	0.00320
AW-14	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/23/23	10	20	CI around geomean	1.36	6.48
AW-14	UA	E002	Thallium, total	mg/L	02/11/21 - 08/23/23	10	100	All ND - Last	0.001	0.001
AW-14	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/23/23	10	0	CI around mean	902	1,050
AW-15	UA	E002	Antimony, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.003	0.003
AW-15	UA	E002	Arsenic, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.00175	0.0300

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AW-15	UA	E002	Barium, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	1.59	2.07
AW-15	UA	E002	Beryllium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.00190
AW-15	UA	E002	Boron, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.325	0.535
AW-15	UA	E002	Cadmium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.00100
AW-15	UA	E002	Chloride, total	mg/L	02/12/21 - 08/23/23	8	0	CB around linear reg	22.3	56.0
AW-15	UA	E002	Chromium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.004	0.0480
AW-15	UA	E002	Cobalt, total	mg/L	02/12/21 - 08/23/23	8	88	CI around median	0.002	0.0280
AW-15	UA	E002	Fluoride, total	mg/L	02/12/21 - 08/23/23	8	75	CI around median	0.25	0.396
AW-15	UA	E002	Lead, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.0330
AW-15	UA	E002	Lithium, total	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	0.0278	0.0710
AW-15	UA	E002	Mercury, total	mg/L	02/12/21 - 08/23/23	8	88	CI around median	0.0002	0.0002
AW-15	UA	E002	Molybdenum, total	mg/L	02/12/21 - 08/23/23	8	75	CI around median	0.001	0.00620
AW-15	UA	E002	pH (field)	SU	02/12/21 - 08/23/23	7	0	CI around mean	6.6/6.8	6.3/7.1
AW-15	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 08/23/23	8	0	CI around mean	2.58	9.60
AW-15	UA	E002	Selenium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.00320
AW-15	UA	E002	Sulfate, total	mg/L	02/12/21 - 08/23/23	8	88	Most recent sample	1	6.48
AW-15	UA	E002	Thallium, total	mg/L	02/12/21 - 08/23/23	8	100	All ND - Last	0.001	0.001
AW-15	UA	E002	Total Dissolved Solids	mg/L	02/12/21 - 08/23/23	8	0	CI around mean	871	1,050
AW-15S	PMP	E002	Antimony, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.003	0.003
AW-15S	PMP	E002	Arsenic, total	mg/L	02/12/21 - 08/23/23	11	54	CI around median	0.001	0.0300
AW-15S	PMP	E002	Barium, total	mg/L	02/12/21 - 08/23/23	11	0	CB around T-S line	-0.232	2.07
AW-15S	PMP	E002	Beryllium, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.001	0.00190
AW-15S	PMP	E002	Boron, total	mg/L	02/12/21 - 08/23/23	11	0	CI around mean	5.46	0.535
AW-15S	PMP	E002	Cadmium, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.001	0.00100
AW-15S	PMP	E002	Chloride, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	20.9	56.0
AW-15S	PMP	E002	Chromium, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.004	0.0480
AW-15S	PMP	E002	Cobalt, total	mg/L	02/12/21 - 08/23/23	11	91	CI around median	0.002	0.0280

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AW-15S	PMP	E002	Fluoride, total	mg/L	02/12/21 - 08/23/23	11	36	CI around median	0.25	0.396
AW-15S	PMP	E002	Lead, total	mg/L	02/12/21 - 08/23/23	11	82	CI around median	0.001	0.0330
AW-15S	PMP	E002	Lithium, total	mg/L	02/12/21 - 08/23/23	11	82	CI around median	0.02	0.0710
AW-15S	PMP	E002	Mercury, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.0002	0.0002
AW-15S	PMP	E002	Molybdenum, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	0.00194	0.00620
AW-15S	PMP	E002	pH (field)	SU	02/12/21 - 08/23/23	11	0	CI around mean	6.7/7.0	6.3/7.1
AW-15S	PMP	E002	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 08/23/23	10	0	CI around mean	0.278	9.60
AW-15S	PMP	E002	Selenium, total	mg/L	02/12/21 - 08/23/23	11	46	CI around geomean	0.000977	0.00320
AW-15S	PMP	E002	Sulfate, total	mg/L	02/12/21 - 08/23/23	11	0	CB around linear reg	503	6.48
AW-15S	PMP	E002	Thallium, total	mg/L	02/12/21 - 08/23/23	11	100	All ND - Last	0.001	0.001
AW-15S	PMP	E002	Total Dissolved Solids	mg/L	02/12/21 - 08/23/23	11	0	CI around mean	1,180	1,050
AW-16	UA	E002	Antimony, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.003	0.003
AW-16	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/21/23	11	18	CI around mean	0.00119	0.0300
AW-16	UA	E002	Barium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1.17	2.07
AW-16	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00190
AW-16	UA	E002	Boron, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.466	0.535
AW-16	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00100
AW-16	UA	E002	Chloride, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	49.7	56.0
AW-16	UA	E002	Chromium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.004	0.0480
AW-16	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.002	0.0280
AW-16	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.25	0.396
AW-16	UA	E002	Lead, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.0330
AW-16	UA	E002	Lithium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around median	0.032	0.0710
AW-16	UA	E002	Mercury, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.0002	0.0002
AW-16	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00620
AW-16	UA	E002	pH (field)	SU	02/11/21 - 08/21/23	11	0	CI around mean	6.6/6.9	6.3/7.1
AW-16	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/21/23	11	0	CI around mean	3.99	9.60

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AW-16	UA	E002	Selenium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00320
AW-16	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	1	6.48
AW-16	UA	E002	Thallium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.001
AW-16	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1,050	1,050
AW-17	UA	E002	Antimony, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.003	0.003
AW-17	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.00449	0.0300
AW-17	UA	E002	Barium, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	1.04	2.07
AW-17	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00190
AW-17	UA	E002	Boron, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	0.413	0.535
AW-17	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00100
AW-17	UA	E002	Chloride, total	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	52	56.0
AW-17	UA	E002	Chromium, total	mg/L	02/11/21 - 08/21/23	11	64	CI around median	0.004	0.0480
AW-17	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/21/23	11	0	CI around geomean	0.00214	0.0280
AW-17	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.25	0.396
AW-17	UA	E002	Lead, total	mg/L	02/11/21 - 08/21/23	11	64	CI around median	0.001	0.0330
AW-17	UA	E002	Lithium, total	mg/L	02/11/21 - 08/21/23	11	0	CB around linear reg	-0.00453	0.0710
AW-17	UA	E002	Mercury, total	mg/L	02/11/21 - 08/21/23	11	91	CI around median	0.0002	0.0002
AW-17	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/21/23	11	36	CB around linear reg	-0.000279	0.00620
AW-17	UA	E002	pH (field)	SU	02/11/21 - 08/21/23	11	0	CI around median	6.6/7.0	6.3/7.1
AW-17	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/21/23	11	0	CI around mean	2.59	9.60
AW-17	UA	E002	Selenium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.00320
AW-17	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	1	6.48
AW-17	UA	E002	Thallium, total	mg/L	02/11/21 - 08/21/23	11	100	All ND - Last	0.001	0.001
AW-17	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/21/23	11	0	CI around mean	811	1,050
AW-18	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.003
AW-18	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.00319	0.0300
AW-18	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	0.983	2.07

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-18	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00190
AW-18	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.683	0.535
AW-18	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00100
AW-18	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	77.2	56.0
AW-18	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.004	0.0480
AW-18	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.002	0.0280
AW-18	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	46	CI around median	0.25	0.396
AW-18	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	82	CI around median	0.001	0.0330
AW-18	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	-0.032	0.0710
AW-18	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.0002
AW-18	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	-0.0148	0.00620
AW-18	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.7/7.0	6.3/7.1
AW-18	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	2.11	9.60
AW-18	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.001	0.00320
AW-18	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	4.08	6.48
AW-18	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.001
AW-18	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	779	1,050
AW-19	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.003
AW-19	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0113	0.0300
AW-19	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	0.18	2.07
AW-19	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00190
AW-19	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	2.5	0.535
AW-19	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00100
AW-19	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	76.8	56.0
AW-19	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.004	0.0480
AW-19	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	73	CI around median	0.002	0.0280
AW-19	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.288	0.396

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-19	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	46	CI around median	0.001	0.0330
AW-19	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	64	CI around median	0.02	0.0710
AW-19	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.0002
AW-19	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	0.0034	0.00620
AW-19	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.7/7.1	6.3/7.1
AW-19	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	0.36	9.60
AW-19	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00320
AW-19	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	47.7	6.48
AW-19	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.001
AW-19	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	549	1,050
AW-21	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.003	0.003
AW-21	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	11	18	CI around mean	0.00102	0.0300
AW-21	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0609	2.07
AW-21	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00190
AW-21	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	10.5	0.535
AW-21	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.00100
AW-21	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	83	56.0
AW-21	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.004	0.0480
AW-21	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.002	0.0280
AW-21	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	11	0	CB around linear reg	0.107	0.396
AW-21	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	11	91	CI around median	0.001	0.0330
AW-21	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.02	0.0710
AW-21	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.0002	0.0002
AW-21	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	0.0162	0.00620
AW-21	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	11	0	CI around mean	6.9/7.5	6.3/7.1
AW-21	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	11	0	CI around mean	0.391	9.60
AW-21	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	11	82	CI around median	0.001	0.00320

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-21	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	11	0	CI around median	230	6.48
AW-21	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	11	100	All ND - Last	0.001	0.001
AW-21	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	11	0	CI around mean	645	1,050

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

PMP = Potential Migration Pathway

UA = Uppermost Aquifer

mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result
Statistical Calculation = method used to calculate the statistical result:

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

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

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

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

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

ATTACHMENT D
SUPPLEMENTAL GROUNDWATER ELEVATION DATA

ATTACHMENT D.
SUPPLEMENTAL GROUNDWATER ELEVATION DATA
2023 35 I.A.C. § 845 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
APW-01	Supplemental Water Level	UA	06/12/2023	6.76	434.31
APW-01	Supplemental Water Level	UA	08/21/2023	6.17	434.90
APW-01	Supplemental Water Level	UA	10/27/2023	5.73	435.34
AW-20	Supplemental Water Level	UA	06/12/2023	17.61	443.87
AW-20	Supplemental Water Level	UA	08/21/2023	16.80	444.68
AW-20	Supplemental Water Level	UA	10/27/2023	17.10	444.38
AW-23	Supplemental Water Level	UA	01/09/2023	3.95	433.62
AW-23	Supplemental Water Level	UA	06/14/2023	[5.90]	[431.67]
AW-23	Supplemental Water Level	UA	08/21/2023	4.36	433.21
AW-23	Supplemental Water Level	UA	10/27/2023	5.46	432.11
AW-23	Supplemental Water Level	UA	12/27/2023	3.48	434.09
EMW-05	Supplemental Water Level	UA	01/09/2023	21.43	436.51
EMW-05	Supplemental Water Level	UA	04/12/2023	18.92	439.01
EMW-05	Supplemental Water Level	UA	05/12/2023	19.61	438.32
EMW-05	Supplemental Water Level	UA	06/12/2023	21.20	436.73
EMW-05	Supplemental Water Level	UA	08/28/2023	[20.84]	[437.10]
EMW-05	Supplemental Water Level	UA	10/27/2023	21.67	436.27
EMW-05	Supplemental Water Level	UA	11/20/2023	21.60	436.34
EMW-05	Supplemental Water Level	UA	12/27/2023	20.85	437.09

Notes:
Due to malfunctioning pressure transducer, data gaps exist in monthly water level elevations prior to the fourth quarter. Monthly depth to water measurements were collected manually in the fourth quarter.
BMP = below measuring point
Bracketing [ ] indicates that the measurement was obtained outside of the episodic depth to groundwater measurements time frame.
NAVD88 = North American Vertical Datum of 1988
Monitored Unit Abbreviations:

UA = uppermost aquifer

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ATTACHMENT E
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND

- **ATTACHMENT E FROM THE QUARTER 2, 2023 GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES REPORT (RAMBOLL, 2023a)**
- **ATTACHMENT E FROM THE QUARTER 3, 2023 GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES REPORT (RAMBOLL, 2023b)**

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW-01	UCF	E001	Antimony, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.003	0.003
APW-01	UCF	E001	Arsenic, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.00113	0.0300
APW-01	UCF	E001	Barium, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.00882	2.07
APW-01	UCF	E001	Beryllium, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.001	0.00190
APW-01	UCF	E001	Boron, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.406	0.535
APW-01	UCF	E001	Cadmium, total	mg/L	06/17/21 - 06/14/23	4	75	CI around median (Last Sample, n<7)	0.001	0.00100
APW-01	UCF	E001	Chloride, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	78.8	56.0
APW-01	UCF	E001	Chromium, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00291	0.0480
APW-01	UCF	E001	Cobalt, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00237	0.0280
APW-01	UCF	E001	Fluoride, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.209	0.396
APW-01	UCF	E001	Lead, total	mg/L	06/17/21 - 06/14/23	4	25	CI around mean	-0.00645	0.0330
APW-01	UCF	E001	Lithium, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.0132	0.0710
APW-01	UCF	E001	Mercury, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.0002	0.0002
APW-01	UCF	E001	Molybdenum, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	0.000863	0.00620
APW-01	UCF	E001	pH (field)	SU	06/17/21 - 06/14/23	4	0	CI around mean	6.7/7.1	6.3/7.1
APW-01	UCF	E001	Selenium, total	mg/L	06/17/21 - 06/14/23	4	50	CI around mean	0.000538	0.00320
APW-01	UCF	E001	Sulfate, total	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	271	6.48
APW-01	UCF	E001	Thallium, total	mg/L	06/17/21 - 06/14/23	4	100	All ND - Last	0.001	0.001
APW-01	UCF	E001	Total Dissolved Solids	mg/L	06/17/21 - 06/14/23	4	0	CI around mean	663	1,050
AW-20	UA	E001	Antimony, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.003	0.003
AW-20	UA	E001	Arsenic, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.0111	0.0300
AW-20	UA	E001	Barium, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.125	2.07
AW-20	UA	E001	Beryllium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.00190
AW-20	UA	E001	Boron, total	mg/L	02/11/21 - 06/15/23	6	0	CI around median (Last Sample, n<7)	3.1	0.535
AW-20	UA	E001	Cadmium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.00100
AW-20	UA	E001	Chloride, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	85.1	56.0
AW-20	UA	E001	Chromium, total	mg/L	02/11/21 - 06/15/23	6	83	CI around median (Last Sample, n<7)	0.004	0.0480

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-20	UA	E001	Cobalt, total	mg/L	02/11/21 - 06/15/23	6	50	CI around median (Last Sample, n<7)	0.002	0.0280
AW-20	UA	E001	Fluoride, total	mg/L	02/11/21 - 06/15/23	6	17	CI around mean	0.244	0.396
AW-20	UA	E001	Lead, total	mg/L	02/11/21 - 06/15/23	6	67	CI around median (Last Sample, n<7)	0.0014	0.0330
AW-20	UA	E001	Lithium, total	mg/L	02/11/21 - 06/15/23	6	67	CI around median (Last Sample, n<7)	0.02	0.0710
AW-20	UA	E001	Mercury, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.0002	0.0002
AW-20	UA	E001	Molybdenum, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	0.00229	0.00620
AW-20	UA	E001	pH (field)	SU	02/11/21 - 06/15/23	6	0	CI around mean	6.5/7.1	6.3/7.1
AW-20	UA	E001	Selenium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.00320
AW-20	UA	E001	Sulfate, total	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	36.7	6.48
AW-20	UA	E001	Thallium, total	mg/L	02/11/21 - 06/15/23	6	100	All ND - Last	0.001	0.001
AW-20	UA	E001	Total Dissolved Solids	mg/L	02/11/21 - 06/15/23	6	0	CI around mean	721	1,050
AW-23	UA	E001	Antimony, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.003	0.003
AW-23	UA	E001	Arsenic, total	mg/L	11/21/22 - 06/14/23	4	75	CI around median (Last Sample, n<7)	0.001	0.0300
AW-23	UA	E001	Barium, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	0.0233	2.07
AW-23	UA	E001	Beryllium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.00190
AW-23	UA	E001	Boron, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	0.416	0.535
AW-23	UA	E001	Cadmium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.00100
AW-23	UA	E001	Chloride, total	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	35.4	56.0
AW-23	UA	E001	Chromium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.004	0.0480
AW-23	UA	E001	Cobalt, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.002	0.0280
AW-23	UA	E001	Fluoride, total	mg/L	11/21/22 - 06/14/23	4	25	CI around mean	0.222	0.396
AW-23	UA	E001	Lead, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.0330
AW-23	UA	E001	Lithium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.02	0.0710
AW-23	UA	E001	Mercury, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.0002	0.0002
AW-23	UA	E001	Molybdenum, total	mg/L	11/21/22 - 06/14/23	4	50	CI around mean	0.000538	0.00620
AW-23	UA	E001	pH (field)	SU	11/21/22 - 06/14/23	4	0	CI around mean	6.5/7.2	6.3/7.1
AW-23	UA	E001	Selenium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.00320

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-23	UA	E001	Sulfate, total	mg/L	11/21/22 - 06/14/23	4	0	CI around median (Last Sample, n<7)	200	6.48
AW-23	UA	E001	Thallium, total	mg/L	11/21/22 - 06/14/23	4	100	All ND - Last	0.001	0.001
AW-23	UA	E001	Total Dissolved Solids	mg/L	11/21/22 - 06/14/23	4	0	CI around mean	686	1,050
EMW-05	UA	E001	Antimony, total	mg/L	11/18/22 - 06/15/23	4	100	All ND - Last	0.003	0.003
EMW-05	UA	E001	Arsenic, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	0.0011	0.0300
EMW-05	UA	E001	Barium, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	0.07	2.07
EMW-05	UA	E001	Beryllium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.00190
EMW-05	UA	E001	Boron, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	0.152	0.535
EMW-05	UA	E001	Cadmium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.00100
EMW-05	UA	E001	Chloride, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	15.4	56.0
EMW-05	UA	E001	Chromium, total	mg/L	11/18/22 - 06/15/23	4	50	CI around median (Last Sample, n<7)	0.004	0.0480
EMW-05	UA	E001	Cobalt, total	mg/L	11/18/22 - 06/15/23	4	25	CI around median (Last Sample, n<7)	0.002	0.0280
EMW-05	UA	E001	Fluoride, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.25	0.396
EMW-05	UA	E001	Lead, total	mg/L	11/18/22 - 06/15/23	4	50	CI around geomean	6.97e-05	0.0330
EMW-05	UA	E001	Lithium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.02	0.0710
EMW-05	UA	E001	Mercury, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.0002	0.0002
EMW-05	UA	E001	Molybdenum, total	mg/L	11/18/22 - 06/15/23	4	0	CI around mean	-3.82e-05	0.00620
EMW-05	UA	E001	pH (field)	SU	12/15/22 - 06/15/23	3	0	Most recent sample	7.0/7.0	6.3/7.1
EMW-05	UA	E001	Selenium, total	mg/L	11/18/22 - 06/15/23	4	75	CI around median (Last Sample, n<7)	0.001	0.00320
EMW-05	UA	E001	Sulfate, total	mg/L	11/18/22 - 06/15/23	4	0	CI around median (Last Sample, n<7)	120	6.48
EMW-05	UA	E001	Thallium, total	mg/L	11/18/22 - 06/15/23	4	100	All ND - Last	0.001	0.001
EMW-05	UA	E001	Total Dissolved Solids	mg/L	11/18/22 - 06/15/23	4	25	CI around median (Last Sample, n<7)	26	1,050

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
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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

UCF = Upper Cahokia Formation

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

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

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

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

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
APW-01	UA	E002	Antimony, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.003	0.003
APW-01	UA	E002	Arsenic, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.00182	0.0300
APW-01	UA	E002	Barium, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.0284	2.07
APW-01	UA	E002	Beryllium, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.001	0.00190
APW-01	UA	E002	Boron, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.567	0.535
APW-01	UA	E002	Cadmium, total	mg/L	06/17/21 - 08/23/23	5	80	CI around median (Last Sample, n<7)	0.001	0.00100
APW-01	UA	E002	Chloride, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	97.2	56.0
APW-01	UA	E002	Chromium, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.000941	0.0480
APW-01	UA	E002	Cobalt, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.001	0.0280
APW-01	UA	E002	Fluoride, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.25	0.396
APW-01	UA	E002	Lead, total	mg/L	06/17/21 - 08/23/23	5	40	CI around mean	-0.00407	0.0330
APW-01	UA	E002	Lithium, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.02	0.0710
APW-01	UA	E002	Mercury, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.0002	0.0002
APW-01	UA	E002	Molybdenum, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	0.000943	0.00620
APW-01	UA	E002	pH (field)	SU	06/17/21 - 08/23/23	5	0	CI around mean	6.5/7.2	6.3/7.1
APW-01	UA	E002	Radium 226 + Radium 228, total	pCi/L	06/17/21 - 08/23/23	4	0	CI around mean	-1.26	9.60
APW-01	UA	E002	Selenium, total	mg/L	06/17/21 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.001	0.00320
APW-01	UA	E002	Sulfate, total	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	279	6.48
APW-01	UA	E002	Thallium, total	mg/L	06/17/21 - 08/23/23	5	100	All ND - Last	0.001	0.001
APW-01	UA	E002	Total Dissolved Solids	mg/L	06/17/21 - 08/23/23	5	0	CI around mean	779	1,050
AW-20	UA	E002	Antimony, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.003	0.003
AW-20	UA	E002	Arsenic, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.011	0.0300
AW-20	UA	E002	Barium, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.128	2.07
AW-20	UA	E002	Beryllium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.00190
AW-20	UA	E002	Boron, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	1.9	0.535
AW-20	UA	E002	Cadmium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.00100
AW-20	UA	E002	Chloride, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	85.7	56.0

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-20	UA	E002	Chromium, total	mg/L	02/11/21 - 08/22/23	7	86	CI around median	0.004	0.0480
AW-20	UA	E002	Cobalt, total	mg/L	02/11/21 - 08/22/23	7	57	CI around median	0.002	0.0280
AW-20	UA	E002	Fluoride, total	mg/L	02/11/21 - 08/22/23	7	14	CI around mean	0.189	0.396
AW-20	UA	E002	Lead, total	mg/L	02/11/21 - 08/22/23	7	71	CI around median	0.001	0.0330
AW-20	UA	E002	Lithium, total	mg/L	02/11/21 - 08/22/23	7	71	CI around median	0.02	0.0710
AW-20	UA	E002	Mercury, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.0002	0.0002
AW-20	UA	E002	Molybdenum, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	0.00231	0.00620
AW-20	UA	E002	pH (field)	SU	02/11/21 - 08/22/23	7	0	CI around mean	6.4/7.1	6.3/7.1
AW-20	UA	E002	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 08/22/23	6	0	CI around mean	0.17	9.60
AW-20	UA	E002	Selenium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.00320
AW-20	UA	E002	Sulfate, total	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	38.2	6.48
AW-20	UA	E002	Thallium, total	mg/L	02/11/21 - 08/22/23	7	100	All ND - Last	0.001	0.001
AW-20	UA	E002	Total Dissolved Solids	mg/L	02/11/21 - 08/22/23	7	0	CI around mean	737	1,050
AW-23	UA	E002	Antimony, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.003	0.003
AW-23	UA	E002	Arsenic, total	mg/L	11/21/22 - 08/23/23	5	80	CI around median (Last Sample, n<7)	0.001	0.0300
AW-23	UA	E002	Barium, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	0.02	2.07
AW-23	UA	E002	Beryllium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.00190
AW-23	UA	E002	Boron, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	0.458	0.535
AW-23	UA	E002	Cadmium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.00100
AW-23	UA	E002	Chloride, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	38.8	56.0
AW-23	UA	E002	Chromium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.004	0.0480
AW-23	UA	E002	Cobalt, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.002	0.0280
AW-23	UA	E002	Fluoride, total	mg/L	11/21/22 - 08/23/23	5	40	CI around mean	0.231	0.396
AW-23	UA	E002	Lead, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.0330
AW-23	UA	E002	Lithium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.02	0.0710
AW-23	UA	E002	Mercury, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.0002	0.0002
AW-23	UA	E002	Molybdenum, total	mg/L	11/21/22 - 08/23/23	5	60	CI around median (Last Sample, n<7)	0.001	0.00620

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-23	UA	E002	pH (field)	SU	11/21/22 - 08/23/23	5	0	CI around mean	6.6/7.1	6.3/7.1
AW-23	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/21/22 - 08/23/23	4	0	CI around mean	-0.112	9.60
AW-23	UA	E002	Selenium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.00320
AW-23	UA	E002	Sulfate, total	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	179	6.48
AW-23	UA	E002	Thallium, total	mg/L	11/21/22 - 08/23/23	5	100	All ND - Last	0.001	0.001
AW-23	UA	E002	Total Dissolved Solids	mg/L	11/21/22 - 08/23/23	5	0	CI around mean	701	1,050
EMW-05	UA	E002	Antimony, total	mg/L	11/18/22 - 08/28/23	5	100	All ND - Last	0.003	0.003
EMW-05	UA	E002	Arsenic, total	mg/L	11/18/22 - 08/28/23	5	20	CI around median (Last Sample, n<7)	0.001	0.0300
EMW-05	UA	E002	Barium, total	mg/L	11/18/22 - 08/28/23	5	0	CI around median (Last Sample, n<7)	0.062	2.07
EMW-05	UA	E002	Beryllium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.00190
EMW-05	UA	E002	Boron, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	0.289	0.535
EMW-05	UA	E002	Cadmium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.00100
EMW-05	UA	E002	Chloride, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	15.5	56.0
EMW-05	UA	E002	Chromium, total	mg/L	11/18/22 - 08/28/23	5	60	CI around median (Last Sample, n<7)	0.004	0.0480
EMW-05	UA	E002	Cobalt, total	mg/L	11/18/22 - 08/28/23	5	40	CI around median (Last Sample, n<7)	0.002	0.0280
EMW-05	UA	E002	Fluoride, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.25	0.396
EMW-05	UA	E002	Lead, total	mg/L	11/18/22 - 08/28/23	5	60	CI around median (Last Sample, n<7)	0.001	0.0330
EMW-05	UA	E002	Lithium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.02	0.0710
EMW-05	UA	E002	Mercury, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.0002	0.0002
EMW-05	UA	E002	Molybdenum, total	mg/L	11/18/22 - 08/28/23	5	0	CI around mean	0.000417	0.00620
EMW-05	UA	E002	pH (field)	SU	12/15/22 - 08/28/23	4	0	CI around mean	6.2/7.3	6.3/7.1
EMW-05	UA	E002	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 08/28/23	4	0	CI around mean	-0.288	9.60
EMW-05	UA	E002	Selenium, total	mg/L	11/18/22 - 08/28/23	5	80	CI around median (Last Sample, n<7)	0.001	0.00320
EMW-05	UA	E002	Sulfate, total	mg/L	11/18/22 - 08/28/23	5	0	CI around median (Last Sample, n<7)	130	6.48
EMW-05	UA	E002	Thallium, total	mg/L	11/18/22 - 08/28/23	5	100	All ND - Last	0.001	0.001
EMW-05	UA	E002	Total Dissolved Solids	mg/L	11/18/22 - 08/28/23	5	20	CI around median (Last Sample, n<7)	900	1,050

ATTACHMENT E.
SUPPLEMENTAL COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 3, 2023
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, 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

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