

**TRANSMITTAL**

To: Illinois Environmental Protection Agency  
DWPC – Permits Section (MC 15)  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
2520 W Iles Ave  
Springfield, IL 62704

From: Midwest Generation, LLC Waukegan Station

Date: January 30, 2025

**Re: Midwest Generation, LLC – Waukegan Generating Station  
Account No. W0971900021  
CCR Surface Impoundment Annual Consolidated Report**

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In accordance with the requirements of Title 35 of the Illinois Administrative Code (“35 IAC”) Section 845.550, the Annual Consolidated Report is attached for the following CCR surface impoundments at Waukegan Generating Station:

Pond ID	CCR Surface Impoundment Description
W0971900021-01	East Ash Pond
W0971900021-02	West Ash Pond

The certification pages from the Hazard Potential Classification Assessment, Structural Stability Assessment, Safety Factor Assessment, and Inflow Design Flood Control System Plan have been provided in Attachment B. Full copies of these assessments can be found on our public website at [www.midwestgenerationllc.com](http://www.midwestgenerationllc.com). If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [Jill.Buckley@nrg.com](mailto:Jill.Buckley@nrg.com).

# **2024 ANNUAL CONSOLIDATED REPORT**

## **WAUKEGAN GENERATING STATION**

**EAST ASH POND – W0971900021-01**

**WEST ASH POND – W0971900021-02**

ATTACHMENT A – ANNUAL CCR FUGITIVE DUST CONTROL REPORT

ATTACHMENT B – ANNUAL INSPECTION REPORT

ATTACHMENT B.1 – HAZARD POTENTIAL CLASSIFICATION ASSESSMENT  
CERTIFICATION

ATTACHMENT B.2 – STRUCTURAL STABILITY ASSESSMENT CERTIFICATION

ATTACHMENT B.3 – SAFETY FACTOR ASSESSMENT CERTIFICATION

ATTACHMENT B.4 – INFLOW DESIGN FLOOD CONTROL PLAN

ATTACHMENT C – ANNUAL GROUNDWATER MONITORING AND CORRECTIVE  
ACTION REPORT

ATTACHMENT D – MONTHLY SURFACE IMPOUNDMENT WATER ELEVATIONS

**ATTACHMENT A**  
**2024 ANNUAL CCR FUGITIVE DUST**  
**CONTROL REPORT**

**Annual CCR Fugitive Dust Control Report**  
**Waukegan Generating Station**  
401 East Greenwood Avenue, Waukegan, Illinois

## ***1.0 Introduction***

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On April 15, 2021, the Illinois Pollution Control Board adopted a new part of its waste disposal regulations creating state-wide standards for the disposal of coal combustion residuals (CCR) in surface impoundments, created by the generation of electricity by coal-fired power plants (the IL CCR Rule). These requirements include air criteria specified in Title 35 of the Illinois Administrative Code, §845.500, to address the potential pollution caused by windblown dust from CCR units.

The Waukegan Generating Station, operated by Midwest Generation, LLC (MWG), is located at 401 East Greenwood Avenue, Waukegan, Lake County, Illinois. The facility retired its coal-fired electric power generating units in 2022 and currently operates oil-fired electric power generating units. The station occupies approximately 200 acres. There are currently two coal-fired units, Units 7 and 8, that ceased coal-burning operations in May 2022. There are four peaker units at the site, fired by fuel oil. Electrical power is transmitted from the site to the area grid through overhead transmission power lines. The Rule applies to this facility due to the disposal management of CCR that is generated from the combustion of coal. CCR units associated with the station include the East Ash Pond and West Ash Pond.

According to the IL CCR Rule, owners or operators of CCR units must adopt measures that will effectively minimize CCR from becoming airborne at the facility by developing and operating in accordance with a Fugitive Dust Control Plan (Plan) with adequate dust control measures. In this regard, a Plan was prepared that complies with the requirements as specified in §845.500(b)(1-7) of the IL CCR Rule and placed in the Waukegan facility's operating record on October 31, 2021 per §845.800(d)(7). As required, the Plan was also posted to the publicly accessible internet site per §845.810(e).

In addition to the above and per §845.500(c), an Annual Fugitive Dust Control Report (Annual Report) must be completed that includes the following:

- Description of actions taken to control CCR fugitive dust and
- The four quarterly fugitive dust complaint reports submitted under subsection (b)(2)(B)

The Annual Report must be submitted as part of the annual consolidated report required by §845.550. This document represents the 2024 Annual Report for Waukegan and will also be appropriately placed in the facility's operating record per §845.800(d)(7) and posted to the publicly accessible internet site per §845.810(e).

# **Annual CCR Fugitive Dust Control Report**

## **Waukegan Generating Station**

401 East Greenwood Avenue, Waukegan, Illinois

## **2.0 Actions Taken to Control CCR Fugitive Dust**

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As detailed in the facility's CCR Fugitive Dust Control Plan and reiterated below, the station has established procedures and inspection requirements which are implemented to minimize/eliminate airborne emissions from the potential fugitive dust sources. The results from inspections conducted and associated observations made during CCR handling activities are documented on logs maintained in the station's Environmental Department.

### **2.1 West Ash Pond and East Ash Pond**

The East Ash Pond is filled with water, thereby suppressing any potential fugitive dust emissions. The West Ash Pond had been dewatered and dredged, with de minimis amounts of CCR and subsequent stormwater accumulation remaining. When the ponds need to be dewatered and the sediment removed off site to a licensed landfill, there is the potential for this material to become airborne especially during excessively dry and windy conditions. Loading of this material under these conditions also has the potential for generating fugitive dust. Dewatered ponds are assessed on a quarterly basis or more frequently during excessively dry and windy conditions. To minimize fugitive dust emissions from exposed dry bottom ash and slag, the height of the staged material is minimized and the material piles are either sprayed with water or covered, as necessary. Loading activities also are limited during such occasions. Haul trucks are covered with tarps once they have been loaded.

No CCR was removed from the ash ponds during the reporting period.

### **2.2 Maintenance Storage Area**

The roll-off boxes in the Maintenance Storage Area only periodically contain bottom ash and slag, fly ash and other ash-related materials generated from decommissioning activities. Typically, the bottom ash and slag was in a wet state when placed into the containers but fly ash was in a dry state. When the roll-off boxes were filled, the material was promptly removed to an off-site licensed facility. The Maintenance Storage Area was assessed on a quarterly basis or more frequently during excessively dry and windy conditions. If ash material was observed outside a roll-off box, it was collected and placed into the container. All roll-off boxes were covered while staged in the Maintenance Storage Area and during removal off site. With the retirement of Units 7 and 8, the Maintenance Storage Area was used infrequently during decommissioning activities.

### **2.3 Ash Transport Roadways**

During CCR hauling activities, truck drivers are instructed on the proper procedure for cleaning trucks and roll-off boxes before removal and a vehicle speed limit is enforced at the facility. Ash material that may not have been adequately removed from the trucks or roll-off boxes has the

# **Annual CCR Fugitive Dust Control Report**

## **Waukegan Generating Station**

401 East Greenwood Avenue, Waukegan, Illinois

potential to become airborne and ultimately be deposited on haul roads. To minimize fugitive dust emissions, these roads are assessed on a quarterly basis and any observed accumulated ash material is promptly cleaned up and collected for off-site removal to a licensed landfill.

## ***3.0 Fugitive CCR Dust Assessments***

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Pursuant to §845.500(b)(3), assessments of the potential fugitive dust emission sources identified in the Waukegan facility's CCR Fugitive Dust Control Plan (Plan) are conducted to assess the effectiveness of the Plan. The assessment includes observation of ash removal from ponds, temporary storage and transport activities at the facility to confirm the adequacy of the control measures. The assessments are conducted on a quarterly basis by an individual designated by the contact identified below. Observations made during each assessment will be recorded on a form similar to the one included in Appendix B of the Waukegan facility's CCR Fugitive Dust Control Plan.

If the results of the assessment determine that ash-related equipment has malfunctioned or the integrity of the equipment has been compromised, the necessary repairs or replacement will be performed as soon as feasible. If the assessment finds that the Plan does not effectively minimize the CCR from becoming airborne, the Plan will be amended to include additional control measures. No issues were identified during this Annual Report's period of record covering January through December 2024.

### **Owner Representative/Responsible Person Contact Information:**

Mr. Phillip Raush  
Plant Manager  
815-207-5412

## ***4.0 Record of Citizen Complaints***

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Per the Rule, the Annual Report must include copies of the four quarterly fugitive dust complaint reports submitted under §845.500(b)(2)(B). The quarterly fugitive dust complaint reports contain a record of all citizen complaints that were received by the Waukegan station with regard to fugitive dust emission incidents. In line with established protocols and within 24 hours of receipt, the station's environmental coordinator enters the citizen complaint into MWG's Environmental Management Information System (EMIS) database. The EMIS database would then automatically forwards notice of the complaint to the station manager and MWG's corporate environmental department. Following initial evaluation of the complaint, MWG would then conduct a thorough investigation to confirm the reported incident/conditions and implement corrective actions as may be warranted.

## **Annual CCR Fugitive Dust Control Report**

**Waukegan Generating Station**

401 East Greenwood Avenue, Waukegan, Illinois

No complaints were registered during this Annual Report's period of record covering January through December 2024.

### ***5.0 Summary of Corrective Actions Taken***

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For the January through December 2024 period of record and based on continued monitoring and inspections as outlined in Section 2.0 and 3.0 and as required under the CCR rules, the established control measures remain effective in minimizing potential fugitive dust emissions. Moreover, this assertion is further validated by the lack of citizen complaints logged over this same period.

Accordingly, no corrective actions were required during the past year.

# **QUARTERLY FUGITIVE DUST COMPLAINT REPORTS**



April 10, 2024

Midwest Generation, LLC  
Waukegan Generating Station  
401 E. Greenwood Ave.  
Waukegan, Illinois 60087

Illinois Environmental Protection Agency  
DWPC – Permits Section (MC 15)  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
1021 North Grand Avenue East  
Springfield, IL 62702

**Re: Midwest Generation, LLC – Waukegan Generating Station  
Account No. W0971900021  
Pond IDs: W0971900021-01, W0971900021-02  
CCR Surface Impoundment Quarterly Fugitive Dust Complaint Report**

Dear Sir or Madam:

In accordance with the requirements of Title 35 of the Illinois Administrative Code ("35 IAC") Section 845.500(b)(2)(B), this letter serves as the fugitive dust complaint report for First Quarter 2024 at Waukegan Generating Station. There were no complaints received from members of the public during the period January 1, 2024 through March 31, 2024.

If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [Jill.Buckley@nrg.com](mailto:Jill.Buckley@nrg.com).

Sincerely,

A handwritten signature in black ink that reads "Phillip Raush".

**Phillip Raush**  
Plant Manager  
Waukegan Generating Station



Midwest Generation, LLC  
Waukegan Generating Station  
401 E. Greenwood Ave.  
Waukegan, Illinois 60087

July 9, 2024

Illinois Environmental Protection Agency  
DWPC – Permits Section (MC 15)  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
1021 North Grand Avenue East  
Springfield, IL 62702

**Re: Midwest Generation, LLC – Waukegan Generating Station  
Account No. W0971900021  
Pond IDs: W0971900021-01, W0971900021-02  
CCR Surface Impoundment Quarterly Fugitive Dust Complaint Report**

Dear Sir or Madam:

In accordance with the requirements of Title 35 of the Illinois Administrative Code ("35 IAC") Section 845.500(b)(2)(B), this letter serves as the fugitive dust complaint report for Second Quarter 2024 at Waukegan Generating Station. There were no complaints received from members of the public during the period April 1, 2024 through June 30, 2024.

If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [Jill.Buckley@nrg.com](mailto:Jill.Buckley@nrg.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Phillip Raush".

Phillip Raush  
Plant Manager, Waukegan Generating Station



Midwest Generation, LLC  
Waukegan Generating Station  
401 E. Greenwood Ave.  
Waukegan, Illinois 60087

October 9, 2024

Illinois Environmental Protection Agency  
DWPC – Permits Section (MC 15)  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
1021 North Grand Avenue East  
Springfield, IL 62702

**Re: Midwest Generation, LLC – Waukegan Generating Station  
Account No. W0971900021  
Pond IDs: W0971900021-01, W0971900021-02  
CCR Surface Impoundment Quarterly Fugitive Dust Complaint Report**

Dear Sir or Madam:

In accordance with the requirements of Title 35 of the Illinois Administrative Code ("35 IAC") Section 845.500(b)(2)(B), this letter serves as the fugitive dust complaint report for Third Quarter 2024 at Waukegan Generating Station. There were no complaints received from members of the public during the period July 1, 2024 through September 30, 2024.

If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [Jill.Buckley@nrg.com](mailto:Jill.Buckley@nrg.com).

Sincerely,

A handwritten signature in black ink, appearing to read "Phillip Raush".

Phillip Raush  
Plant Manager, Waukegan Generating Station



Midwest Generation, LLC  
Waukegan Generating Station  
401 E. Greenwood Ave.  
Waukegan, Illinois 60087

January 7, 2025

Illinois Environmental Protection Agency  
DWPC – Permits Section (MC 15)  
Attn: Part 845 Coal Combustion Residual Rule Submittal  
1021 North Grand Avenue East  
Springfield, IL 62702

**Re: Midwest Generation, LLC – Waukegan Generating Station  
Account No. W0971900021  
Pond IDs: W0971900021-01, W0971900021-02  
CCR Surface Impoundment Quarterly Fugitive Dust Complaint Report**

Dear Sir or Madam:

In accordance with the requirements of Title 35 of the Illinois Administrative Code ("35 IAC") Section 845.500(b)(2)(B), this letter serves as the fugitive dust complaint report for Fourth Quarter 2024 at Waukegan Generating Station. There were no complaints received from members of the public during the period October 1, 2024 through December 31, 2024.

If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at [jill.buckley@nrg.com](mailto:jill.buckley@nrg.com).

Sincerely,

A handwritten signature in black ink, appearing to read "PJ Raush".

Phillip Raush  
Plant Manager, Waukegan Generating Station

**ATTACHMENT B**  
**2024 ANNUAL INSPECTION REPORT**

**ANNUAL INSPECTION REPORT  
EAST ASH POND AND WEST ASH POND  
WAUKEGAN STATION  
OCTOBER 2024**

This annual inspection report has been prepared pursuant to both Title 35 of the Illinois Administrative Code (35 IAC) Part 845, Subpart E, Section 845.540(b) and Title 40 Code of Federal Regulation (40 CFR) Section 257.83(b) for the East Ash Pond and West Ash Pond at Waukegan Station (Station) in Waukegan, Illinois. The purpose of this project is to perform the annual inspection of the East and West Ash Ponds by a licensed professional engineer to ensure that the design, construction, operation, and maintenance of the coal combustion residuals (CCR) unit is consistent with recognized and generally accepted good engineering standards. Civil & Environmental Consultants, Inc. (CEC) completed the following scope of services in preparing this annual inspection report:

- CEC reviewed the weekly and monthly inspection reports completed by a qualified person employed by Midwest Generation, LLC, and the previous annual inspection report.
- CEC performed the annual inspection in accordance with the requirements of 35 IAC Section 845.540 and 40 CFR Section 257.83(b) including observations pertaining to the following:
  - Changes in Geometry: Observations of changes in the geometry of the East and West Ash Ponds since the previous annual inspection.
  - Instrumentation: Inspection of the location and type of existing instrumentation and documentation of the maximum recorded readings of each instrument since the previous annual inspection from records provided by the Station.
  - Capacity and Impounded Volume: Inspection observations for the approximate minimum, maximum, and present depth and elevation of the impounded water and CCR; storage capacity of the impounding structure at the time of the inspection; and the approximate volume of the impounded water and CCR at the time of the inspection.
  - Structural/Operational Observations: Estimation of the approximate volume of the impounded water and CCR at the time of the inspection.
  - Other Changes: Inspection including change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.

The East Ash Pond and West Ash Pond are both CCR surface impoundments with each pond approximately 10 acres in size. Both ponds are CCR surface impoundment that only receive stormwater. Placement of CCRs into the Ponds ceased in 2022 and placement of process water ceased in 2022. Placement of stormwater, other than direct precipitation, ceased on May 21, 2024. CEC inspected both Ponds on October 8, 2024, and at the time of our inspection the Ponds contained remnant CCRs. CEC inspected the pond and found no signs of distress that would suggest the stability or operation of the impounding structure is compromised.

## **1.0 CHANGES IN GEOMETRY**

Both the East Ash Pond and West Ash Pond geometry was observed to be unchanged since the October 2023 inspection.

## **2.0 INSTRUMENTATION**

Instrumentation associated with the Ponds included a water level monitoring device in the outlet structure for each pond. Our interview of station personnel and review of weekly inspection reports concluded that the water level monitors are operating properly. No other instrumentation was reported or observed that would be associated with the hydraulic structures, impoundment embankments, and/or slope performance.

## **3.0 CAPACITY AND IMPOUNDED VOLUME**

Capacity and impounded volumes for the East Ash Pond and West Ash Pond and estimated depth of impounded water and CCR are represented in Table 1 and 2, attached. Volumes and depths were determined by reviewing inspection reports, construction drawings, and from modeling using existing topographic data.

## **4.0 STRUCTURAL/OPERATIONAL OBSERVATIONS**

Both the East Ash Pond and West Ash Pond were inspected for signs of distress that would have the potential to disrupt operation and safety of the ponds. None were observed. Prior to inspection, CEC reviewed the previous annual inspection reports, which did not identify conditions that indicate an actual or potential structural weakness. Weekly inspection reports were also reviewed and did not indicate an actual or potential structural weakness.

## **5.0 OTHER CHANGES**

The East Ash Pond and West Ash Pond were inspected for other signs of other changes or distress that would have the potential to disrupt operation and safety of the ponds. Our inspection showed no distresses that would affect the operation and/or stability of either the East Ash Pond or West Ash Pond.

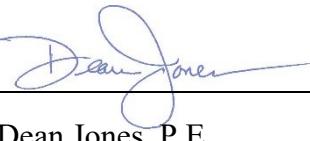
## **6.0 LIMITATIONS AND CERTIFICATION**

This annual inspection report was prepared to meet the requirements of 35 IAC Section 845.540(b) and 40 CFR Section 257.83(b) and was prepared under the direction of Mr. M. Dean Jones, P.E.

By affixing my seal to this, I do hereby certify to the best of my knowledge, information, and belief that the information contained in this report is true and correct. I further certify I am licensed to practice in the State of Illinois and that it is within my professional expertise to verify the correctness of the information. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

Seal:



Signature: 

Name: M. Dean Jones, P.E.

Date of Certification: October 18, 2024

Illinois Professional Engineer No.: 062-051317

Expiration Date: November 30, 2025

**Table 1: Inspection Summary - East Ash Pond**

<b>Category</b>	<b>Regulation Reference</b>	<b>Evaluation</b>	<b>Recommended Action</b>
<b>Change in Geometry</b>	§845.450(b)(2)(A) §257.83(b)(2)(i)	None	None
<b>Instrumentation</b>	§845.450(b)(2)(B) §257.83(b)(2)(ii)	None	None
<b>Water Depth</b>	§845.450(b)(2)(C) §257.83(b)(2)(iii)	0.0 Feet, minimum 0.0 Feet, at inspection 10.24 Feet, maximum	None
<b>CCR Depth</b>	§845.450(b)(2)(C) §257.83(b)(2)(iii)	2 to 14 Feet	None
<b>Estimated Storage Capacity</b>	§845.450(b)(2)(D) §257.83(b)(2)(iv)	143.8 Acre Feet	None
<b>Impounded Water Volume</b>	§845.450(b)(2)(E) §257.83(b)(2)(v)	0 Acre Feet	None
<b>Impounded CCR Volume</b>	§845.450(b)(2)(E) §257.83(b)(2)(v)	26 Acre Feet	None
<b>Structural/Operational Observations</b>	§845.450(b)(2)(F) §257.83(b)(2)(vi)	No longer accepting CCR	None
<b>Other Changes</b>	§845.450(b)(2)(G) §257.83(b)(2)(vii)	None	None

**Table 2: Inspection Summary - West Ash Pond**

Category	Regulation Reference	Evaluation	Recommended Action
<b>Change in Geometry</b>	§845.450(b)(2)(A) §257.83(b)(2)(i)	None	None
<b>Instrumentation</b>	§845.450(b)(2)(B) §257.83(b)(2)(ii)	Water level at outlet structure	None
<b>Water Depth</b>	§845.450(b)(2)(C) §257.83(b)(2)(iii)	< 1 Foot, minimum < 1 Foot, at inspection 2.1 Feet, maximum	None
<b>CCR Depth</b>	§845.450(b)(2)(C) §257.83(b)(2)(iii)	Less than 1 Foot	None
<b>Estimated Storage Capacity</b>	§845.450(b)(2)(D) §257.83(b)(2)(iv)	138.5 Acre Feet	None
<b>Impounded Water Volume</b>	§845.450(b)(2)(E) §257.83(b)(2)(v)	Less Than 1 Acre Feet	None
<b>Impounded CCR Volume</b>	§845.450(b)(2)(E) §257.83(b)(2)(v)	Less Than 6 Acre Feet	None
<b>Structural/Operational Observations</b>	§845.450(b)(2)(F) §257.83(b)(2)(vi)	No longer accepting CCR	None
<b>Other Changes</b>	§845.450(b)(2)(G) §257.83(b)(2)(vii)	None	None

**ATTACHMENT B.1**  
**2024 ANNUAL HAZARD POTENTIAL**  
**CLASSIFICATION CERTIFICATION**

## 7.0 CERTIFICATION

I certify that:

- This hazard potential classification assessment was prepared by me or under my direct supervision.
- The work was conducted in accordance with the requirements of 35 Ill. Adm. Code 845.440.
- I am a registered professional engineer under the laws of the State of Illinois.

Certified By: Thomas Dehlin Date: October 13, 2024

Seal:



Digitally signed by  
Thomas Dehlin  
Date: 2024.10.13  
11:32:22-05'00'

**ATTACHMENT B.2**  
**2024 ANNUAL STRUCTURAL STABILITY**  
**ASSESSMENT CERTIFICATION**

Based on reviews of the East and West Ash Ponds' annual inspection reports (Refs. 5 through 11) and Google Earth aerial images (Ref. 3), there have been no significant modifications to either pond since their initial federal structural stability assessment was completed. Therefore, the conclusions documented therein regarding the stability of the ponds' southern dikes during low pool conditions at the unnamed channel south of the ponds remain valid for this 2024 assessment (see Appendix A).

## 4.0 RECOMMENDED CORRECTIVE MEASURES

(35 Ill. Adm. Code 845.450(b)(1))

Table 4-1 lists the corrective measures recommended for the East and West Ash Ponds in accordance with the findings documented in this 2024 structural stability assessment.

**Table 4-1 – Recommended Corrective Measures for East & West Ash Ponds**

Recommended Corrective Measure	Timeframe
Continue mowing vegetation taller than 12 inches and removing woody vegetation. Woody vegetation shall be removed in a manner that does not risk destabilizing the subject CCR surface impoundment or otherwise adversely affect the stability and safety of the CCR surface impoundment or personnel removing the woody vegetation.	Now, and As Required to Maintain Vegetative Cover Under 12 Inches
Remove the hydraulic structures passing through the East and West Ash Ponds' northern dikes.	During Closure Construction

## 5.0 CERTIFICATION

I certify that:

- This structural stability assessment was prepared by me or under my direct supervision.
- The work was conducted in accordance with the requirements of 35 Ill. Adm. Code 845.450.
- I am a registered professional engineer under the laws of the State of Illinois.

Certified By: Thomas J. Dehlin Date: October 13, 2024

Seal:



 Digitally signed by  
Thomas Dehlin  
Date: 2024.10.13  
11:33:26-05'00'

**ATTACHMENT B.3**  
**2024 ANNUAL SAFETY FACTOR**  
**ASSESSMENT CERTIFICATION**

**Table 4 – 2024 Illinois CCR Rule Factors of Safety for the  
East and West Ash Ponds at the Waukegan Generating Station**

Loading Condition	East Ash Pond	West Ash Pond	Min. Allowable Factor of Safety
Long-Term, Maximum Storage Pool	≥ 1.50	≥ 1.50	<b>1.50</b>
Maximum Surcharge Pool	≥ 1.40	≥ 1.40	<b>1.40</b>
Seismic	≥ 1.00	≥ 1.00	<b>1.00</b>
Liquefaction	Note 1	Note 1	<b>1.20</b>

Notes: 1) The embankment soils for the Ponds are not considered susceptible to liquefaction because saturation of the embankment soils is unlikely based on the installed geomembrane liner system. A limited portion of the bottom of the embankments may become saturated with groundwater based on the design phreatic surface. Liquefaction triggering analyses of these saturated soils show that liquefaction and associated post-liquefaction shear strength loss is unlikely for the design seismic event (Ref. 3). Thus, liquefaction safety factors are not reported.

## 7.0 CERTIFICATION

I certify that:

- This safety factor assessment was prepared by me or under my direct supervision.
- The work was conducted in accordance with the requirements of 35 Ill. Adm. Code 845.460.
- I am a registered professional engineer under the laws of the State of Illinois.

Certified By: Thomas J. Dehlin Date: October 13, 2024

Seal:



 Digitally signed by  
Thomas Dehlin  
Date: 2024.10.13  
11:33:13-05'00'

**ATTACHMENT B.4**

**2024 ANNUAL INFLOW DESIGN FLOOD**

**CONTROL SYSTEM PLAN**

**CERTIFICATION**

**Table 5-1 – Summary of Hydrologic & Hydraulic Assessment Results for East & West Ash Ponds**

CCR Surface Impoundment	Illinois Hazard Potential Classification	Inflow Design Flood	Maximum Surface Water Elevation	Pond Crest Elevation
East Ash Pond	Class 2	1,000 Year	587.30 feet	599.50 feet
West Ash Pond	Class 2	1,000 Year	587.00 feet	602.50 feet

## 6.0 CONCLUSIONS

Based on the results from the revised hydrologic and hydraulic calculations summarized in Table 5-1, Waukegan's East and West Ash Ponds have adequate hydraulic capacities to retain the 1,000-year flood event without water overtopping the ponds' dikes. Therefore, the East and West Ash Ponds are able to collect and control the inflow design flood event specified in 35 Ill. Adm. Code 845.510(a)(3).

## 7.0 CERTIFICATION

I certify that:

- This inflow design flood control system plan was prepared by me or under my direct supervision.
- The work was conducted in accordance with the requirements of 35 Ill. Adm. Code 845.510.
- I am a registered professional engineer under the laws of the State of Illinois.

Certified By: \_\_\_\_\_ Thomas Dehlin \_\_\_\_\_ Date: \_\_\_\_\_ 10/13/2024 \_\_\_\_\_

Seal:



 Digitally signed by  
Thomas Dehlin  
Date: 2024.10.13  
11:32:48-05'00'

**ATTACHMENT C**

**2024 ANNUAL GROUNDWATER**

**MONITORING AND CORRECTIVE ACTION**

**REPORT**



ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

**ILLINOIS CCR COMPLIANCE  
ANNUAL GROUNDWATER MONITORING and  
CORRECTIVE ACTION REPORT - 2024**

**Midwest Generation, LLC  
Waukegan Station  
401 E. Greenwood Avenue  
Waukegan, Illinois**

Prepared By:                   KPRG and Associates, Inc.  
                                      14665 West Lisbon Road, Suite 1A  
                                     Brookfield, WI 53005

January 31, 2025

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- 2 – Summary of Turbidity Measurements
- 3 – Proposed Statistical Background Concentrations and Site-Specific Groundwater Protection Standards
- 4 – Summary of Groundwater Elevation Measurements
- 5 – Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate
- 6 – Groundwater Sample Collection Summary

## FIGURES

- 1 – CCR Monitoring Network
- 2 – Areal Distribution of Concentrations Above Proposed GWPSS

## ATTACHMENTS

- 1 – Monthly Potentiometric Maps

## 1.0 INTRODUCTION and OVERVIEW

Groundwater monitoring requirements in accordance with the Ill. Adm. Code Title 35, Part 845: Standards for the Disposal of Coal Combustion Residuals in Surface Impoundments dated April 15, 2021 (State CCR Rule) have been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Waukegan Generating Station. The wells sampled were selected to meet the monitoring requirements of the State CCR Rule for the West and East Ash Ponds. The CCR monitoring well network around these ponds consists of eight monitoring wells (MW-01 through MW-04, MW-09, MW-11, MW-14 and MW-16) as shown on Figure 1. Wells MW-09, MW-11 and MW-14 are upgradient wells. All CCR groundwater monitoring data available to date, which includes data from previous groundwater monitoring under the Federal CCR Rule, are provided in Tables 1 and 2. As part of the Application for Initial Operating Permit – Waukegan Generating Station submitted on October 31, 2021 (Application), *proposed* statistical background concentration calculations along with *proposed* site-specific Groundwater Protection Standards (GWPSSs) for Illinois Environmental Protection Agency (Agency) review/approval. Table 3 summarizes the *proposed* background statistical concentrations for each parameter along with the site-specific *proposed* GWPSSs in accordance with Section 845.600(a)(2). These are currently still under review by the Agency and, therefore, have not been finalized. However, for the purposes of evaluations required for the annual report, data comparisons will be presented relative to the “*proposed*” values for statistical background concentrations and site-specific GWPSSs.

This overview of the 2024 groundwater monitoring period is provided in accordance with Section 845.610(e)(4). Each required item is discussed separately below.

- Section 845.610(e)(4)(A and B) – *Proposed* statistical background concentration calculations (see Table 3) were submitted to the Agency as part of the Application for Initial Operating Permit. This Application is currently still under Agency review. However, assuming that the Agency accepts the proposed background calculations, the groundwater monitoring for the 2024 reporting period has identified the following constituents with potential statistically significant increases (SSIs) above the *proposed* background concentrations. It is noted that other than those constituents identified in the next bullet, none of these potential SSI concentrations are above *proposed* site-specific GWPSSs. The constituents and associated wells are:
  - Barium: MW-09 (1<sup>st</sup> through 4<sup>th</sup> quarters), MW-14 (4<sup>th</sup> quarter), MW-01 and MW-04 (3<sup>rd</sup> quarter);
  - Boron: MW-09 (1<sup>st</sup> and 3<sup>rd</sup> quarters)
  - Calcium: MW-09 (1<sup>st</sup> quarter), MW-14 (3<sup>rd</sup> quarter);
  - Combined Radium: MW-11 (3<sup>rd</sup> quarter)
  - Fluoride: MW-09 (2<sup>nd</sup> and 3<sup>rd</sup> quarters), MW-01 (1<sup>st</sup> quarter), MW-03 (3<sup>rd</sup> and 4<sup>th</sup> quarters), MW-02 (1<sup>st</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters), MW-04 and MW-16 (1<sup>st</sup> through 4<sup>th</sup> quarters);

- Lithium: MW-09 (2nd through 4<sup>th</sup> quarters), MW-16 (3<sup>rd</sup> quarter);
- Molybdenum: MW-01, MW-02, MW-03, MW-04, MW-09 and MW-16 (1<sup>st</sup> through 4<sup>th</sup> quarters);
- pH: MW-01 (1<sup>st</sup> and 3<sup>rd</sup> quarters), MW-02 (1<sup>st</sup> and 4<sup>th</sup> quarters), MW-03 (1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarters);
- Selenium: MW-02 (2<sup>nd</sup> quarter), MW-04 and MW-16 (3<sup>rd</sup> quarter)
- Sulfate: MW-09 (1<sup>st</sup> quarter), MW-02 and MW-04 (3<sup>rd</sup> quarter), MW-16 (1<sup>st</sup> through 4<sup>th</sup> quarters);
- Total Dissolved Solids (TDS): MW-16 (3<sup>rd</sup> quarter)

Wells MW-09, MW-11 and MW-14 are upgradient monitoring wells.

- Section 845.610(e)(4)(C and D) – *Proposed* GWPSs in accordance with Section 845.600(a)(2) (see Table 3) were submitted to the Agency as part of the Application for Initial Operating Permit. This Application is currently still under review by the Agency. However, assuming that the Agency accepts the *proposed* GWPSs, the groundwater monitoring for the 2024 reporting period has identified the following constituents above the *proposed* GWPSs:

- Boron: MW-09 (1<sup>st</sup> and 3<sup>rd</sup> quarters)
- Calcium: MW-09 (1<sup>st</sup> quarter), MW-14 (3<sup>rd</sup> quarter);
- pH: MW-03 (2<sup>nd</sup> and 4<sup>th</sup> quarters)
- TDS: MW-16 (3<sup>rd</sup> quarter)
- Lithium: MW-09 (2<sup>nd</sup> through 4<sup>th</sup> quarters), MW-16 (3<sup>rd</sup> quarter).
- Molybdenum: MW-09 (1<sup>st</sup> and 3<sup>rd</sup> quarters)
- Sulfate: MW-09 (1<sup>st</sup> quarter), MW-04 (3<sup>rd</sup> quarter), MW-16 (1<sup>st</sup> through 4<sup>th</sup> quarters)

Well MW-09 is an upgradient monitoring point.

- Section 845.610(e)(4)(E though H) – The East and West Ash Ponds are currently not in corrective action.

## 2.0 ANNUAL STATUS SUMMARY

As discussed in Section 1.0, the CCR monitoring well network around the East and West Ash Ponds consists of eight monitoring wells (MW-01 through MW-04, MW-09, MW-11, MW-14 and MW-16) as shown on Figure 1. Wells MW-09, MW-11 and MW-14 are upgradient wells. All CCR groundwater monitoring data available to date, which includes data from previous groundwater monitoring under the Federal CCR Rule, are provided in Tables 1 and 2. The backup analytical packages have been previously provided as part of the 60-day submittal requirements. Table 3 summarizes the proposed background statistical concentrations for each parameter along with the site-specific *Proposed* GWPSs in accordance with Section 845.600(a)(2). These were included as part of the Initial Operating Permit Application referenced above. They are currently still under review by the Agency and, therefore, have not been finalized. However, for the purposes of

evaluations required for this annual report, data comparisons will be presented relative to the “proposed” values for statistical background concentrations and site specific GWPSs.

This section provides the information specified under Section 845.610(e) (2-3).

## 2.1 Summary of Actions and Submittals (Section 845.610(e)(2))

For the 2024 reporting period, the following key actions have been completed:

- Quarterly sampling of all parameters specified in Section 845.600(a) plus calcium and turbidity were completed and the associated 60-day data summary submittals were placed in the facility’s operating record in accordance with Section 845.610(b)(3)(D).
- Water levels were recorded monthly for the specified CCR monitoring wells and pond water levels were concurrently recorded.

Key activities for the upcoming year include:

- Receipt of an approved Application for Initial Operating Permit which will facilitate finalization of the proposed statistical background concentrations and the proposed site specific GWPSs. Once these are accepted/finalized by the Agency, formal groundwater data comparisons and evaluations can be made based on quarterly monitoring results relative to these comparison criteria.
- Submit an amended Application for Initial Construction Permit with closure in-place for both ponds.
- Continued quarterly groundwater monitoring/reporting.

## 2.2 Groundwater Data Summary (Section 845.610(e)(3)(A-F)

Identification of monitoring wells and associated constituent concentrations above the proposed site specific GWPSs was included in Section 1.0 above. A map showing these wells and constituent concentrations above the proposed GWPSs for the most recent sampling (4<sup>th</sup> quarter 2024) is provided on Figure 2.

There were no monitoring wells installed or decommissioned during this reporting period. Monthly water levels were recorded from the specified CCR monitoring wells. The water levels are summarized in Table 4. Potentiometric surface maps for each round of water levels are provided in Attachment 1. Groundwater flow beneath the East and West Ash Ponds is consistently in an easterly direction. When monthly water levels are taken concurrently with a quarterly groundwater sampling event, groundwater elevations from

non-CCR wells are also used in developing the groundwater flow maps. In accordance with Section 845.640(c)(2), groundwater flow direction and seepage velocity estimates for each round of water levels are provided in Table 5.

A summary of the number of groundwater samples collected for analysis for each CCR monitoring well along with sample dates is provided in Table 6.

*Proposed* statistical background concentration calculations (see Table 3) were submitted to the Agency as part of the Application for Initial Operating Permit. This Application is currently still under Agency review. However, assuming that the Agency accepts the *proposed* background calculations, the groundwater monitoring for the 2024 reporting has identified the following constituents with potential statistically significant increases (SSIs) above the *proposed* background concentrations:

- Barium: MW-09 (1<sup>st</sup> through 4<sup>th</sup> quarters), MW-14 (4<sup>th</sup> quarter), MW-01 and MW-04 (3<sup>rd</sup> quarter);
- Boron: MW-09 (1<sup>st</sup> and 3<sup>rd</sup> quarters)
- Calcium: MW-09 (1<sup>st</sup> quarter), MW-14 (3<sup>rd</sup> quarter);
- Combined Radium: MW-11 (3<sup>rd</sup> quarter)
- Fluoride: MW-09 (2<sup>nd</sup> and 3<sup>rd</sup> quarters), MW-01 (1<sup>st</sup> quarter), MW-03 (3<sup>rd</sup> and 4<sup>th</sup> quarters), MW-02 (1<sup>st</sup>, 3<sup>rd</sup> and 4<sup>th</sup> quarters), MW-04 and MW-16 (1<sup>st</sup> through 4<sup>th</sup> quarters);
- Lithium: MW-09 (2nd through 4<sup>th</sup> quarters), MW-16 (3<sup>rd</sup> quarter);
- Molybdenum: MW-01, MW-02, MW-03, MW-04, MW-09 and MW-16 (1<sup>st</sup> through 4<sup>th</sup> quarters);
- pH: MW-01 (1<sup>st</sup> and 3<sup>rd</sup> quarters), MW-02 (1<sup>st</sup> and 4<sup>th</sup> quarters), MW-03 (1<sup>st</sup>, 2<sup>nd</sup> and 4<sup>th</sup> quarters);
- Selenium: MW-02 (2<sup>nd</sup> quarter), MW-04 and MW-16 (3<sup>rd</sup> quarter)
- Sulfate: MW-09 (1<sup>st</sup> quarter), MW-02 and MW-04 (3<sup>rd</sup> quarter), MW-16 (1<sup>st</sup> through 4<sup>th</sup> quarters);
- Total Dissolved Solids (TDS): MW-16 (3<sup>rd</sup> quarter)

Wells MW-09, MW-11 and MW-14 are upgradient monitoring wells. As previously stated, other than those constituents identified in the second bullet in Section 1.0, none of these potential SSI concentrations are above *proposed* site-specific GWPSSs.

## **TABLES**

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium	
MW-09 up-gradient	11/4/2018	13	210	450	0.14	6.60	370	1700	< 0.001	0.015	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.002	0.260	0.1818	< 0.0025	< 0.002			
	5/2/2016	35	380	720	0.11	7.05	970	2000	< 0.001	0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.002	0.044	0.0001	< 0.002	< 0.002			
	8/3/2016	16	310	620	0.12	7.02	740	2500	< 0.001	0.0014	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.002	0.083	0.0001	< 0.002	< 0.002			
	8/25/2016	4.5	130	270	0.21	7.13	190	1100	0.0041	0.042	0.024	< 0.001	0.0111	0.056	0.0027	0.012	0.049	< 0.002	0.063	0.482	0.039	< 0.002	
	12/8/2016	15	200	330	0.18	7.01	270	1300	< 0.001	0.004	0.016	< 0.001	0.00052	< 0.005	< 0.001	< 0.005	0.077	< 0.002	0.024	0.038	< 0.002		
	2/23/2017	14	190	290	0.12	7.68	320	1300	< 0.001	0.0027	0.014	< 0.001	< 0.005	0.059	0.0018	< 0.005	0.068	< 0.002	0.26	< 0.461	0.016	< 0.002	
	5/16/2017	27	160	67	0.29	8.15	420	970	< 0.003	< 0.001	0.0094	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.045	< 0.002	0.51	< 0.342	0.0085	< 0.002	
	7/6/2017	21	220	430	0.13	7.18	610	1800	< 0.003	0.002	0.018	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.089	< 0.002	0.31	< 0.316	0.021	< 0.002	
	9/13/2017	21	250	420	0.14	7.17	520	1800	< 0.003	0.0067	0.019	< 0.001	< 0.005	0.0052	0.0017	< 0.005	0.069	< 0.002	0.33	0.944	0.0041	< 0.002	
	11/29/2017	26	200	390	0.13	7.05	390	1600	< 0.003	0.0017	0.015	< 0.001	< 0.005	0.005	< 0.001	< 0.005	0.086	< 0.002	0.47	0.625	0.042	< 0.002	
	5/31/2018	32	200	29	0.1	6.85	490	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	11/6/2018	30	170	23	0.11	7.33	290	930	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	5/15/2019	26	120	260	0.13	7.53	31	1000	< 0.003	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.035	< 0.002	0.54	< 0.433	< 0.0025	< 0.002	
	11/20/2019	23	160	15	0.15	8.04	390	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	4/22/2020	22	140	9.2	0.18	7.81	360	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	11/18/2020	28	250	290	0.18	7.43	420	1700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	5/6/2021	31	170	35	0.12	7.51	420	910	< 0.003	< 0.001	0.0075	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.04	< 0.002	0.47	< 0.614	0.023	< 0.002	
	8/19/2021	7.2	150	170	0.13	7.01	210	350	< 0.003	0.0019	0.015	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.066	< 0.002	0.12	< 0.457	0.071	< 0.002	
	11/4/2021	10	150	160	0.24	7.07	180	980	< 0.003	0.0026	0.074	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.065	< 0.002	0.12	< 0.775	0.097	< 0.002	
	2/10/2022	9.5	190	220	0.17	7.11	270	1300	< 0.003	0.015	0.033	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.065	< 0.002	0.21	< 0.523	0.036	< 0.002	
	5/24/2022	5.3	150	180	0.23	7.15	200	940	< 0.003	0.0019	0.02	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.054	< 0.002	0.18	< 0.444	0.022	< 0.002	
	8/23/2022	12	170	170	0.22	7.14	290	1100	< 0.003	0.0012	0.046	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.048	< 0.002	0.21	< 0.487	0.0034	< 0.002	
	11/7/2022	6.4	160	200	0.51	6.98	220	1100	< 0.003	0.0083	0.14	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.057	< 0.002	0.21	< 0.025	2.58	< 0.002	
	12/21/2022 (R1)	NS	NS	0.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS		
	2/1/2023	B 2.8	280	250	0.12	6.97	490	1500	< 0.001	0.011	0.074	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.062	< 0.002	0.46	1.01	0.029	< 0.002	
	5/9/2023	4.7	140	140	0.23	7.06	300	800	< 0.003	0.0011	0.021	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.045	< 0.002	0.54	< 0.557	< 0.002	< 0.002	
	8/8/2023	~20	270	380	0.23	6.98	510	1800	< 0.003	0.021	0.11	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.056	< 0.002	0.54	0.754	0.022	< 0.002	
	11/28/2023	~2.6	96	170	0.33	7.15	130	750	< 0.003	0.0071	0.061	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.053	< 0.002	0.49	0.652	< 0.002	< 0.002	
	2/6/2024	24	240	150	0.18	6.88	460	1300	< 0.001	0.0035	0.12	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.20	< 0.002	0.32	1.09	0.0070	< 0.002	
	5/21/2024	2.3	120	180	0.37	7.12	130	860	< 0.003	0.027	0.13	< 0.001	< 0.005	< 0.001	< 0.005	< 0.001	0.047	< 0.002	0.704	0.768	< 0.0025	< 0.002	
	8/13/2024	8.5	130	91	0.34	7.08	200	860	< 0.003														

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Boron	Calcium	Chloride	Fluoride	pH	Sulfate	Total Dissolved Solids	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Lead	Lithium	Mercury	Molybdenum	Radium 226 + 228 Combined	Selenium	Thallium
MW-02 down gradient	11/2/2015	3.0	32	47	0.78	8.27	230	400	< 0.003	0.014	0.016	< 0.001	< 0.005	< 0.001	< 0.002	0.0630	0.028	< 0.0025	< 0.002			
	3/1/2016	4.1	39	47	1.3	8.57	220	410	< 0.003	0.011	0.012	< 0.001	< 0.005	< 0.001	< 0.002	0.0630	0.028	< 0.0025	< 0.002			
	5/4/2016	3.3	34	51	1.5	8.19	180	440	< 0.003	0.0081	0.018	< 0.001	< 0.005	< 0.001	< 0.002	0.0630	0.028	< 0.0025	< 0.002			
	8/23/2016	3.1	42	59	1.3	7.52	250	500	< 0.003	0.0082	0.016	< 0.001	< 0.005	< 0.001	< 0.002	0.0566	0.039	< 0.0025	< 0.002			
	12/5/2016	3.1	28	56	1.0	8.62	160	430	< 0.003	0.018	0.015	< 0.001	< 0.005	< 0.001	< 0.002	0.071	0.509	< 0.0025	< 0.002			
	2/21/2017	3.3	31	52	0.76	8.75	190	420	< 0.003	0.028	0.012	< 0.001	< 0.005	< 0.001	< 0.002	0.0630	0.051	< 0.0025	< 0.002			
	5/15/2017	3.6	85	48	0.64	8.33	320	640	< 0.003	0.02	0.029	< 0.001	< 0.005	< 0.001	< 0.002	0.047	0.425	0.023	< 0.002			
	7/5/2017	4.2	100	52	0.42	7.92	300	710	< 0.003	0.0094	0.031	< 0.001	< 0.005	< 0.001	< 0.002	0.047	0.295	0.017	< 0.002			
	9/4/2017	2.5	87	54	0.44	8.19	340	780	< 0.003	0.012	0.035	< 0.001	< 0.005	< 0.001	< 0.01	0.0002	0.049	0.769	0.0052	< 0.002		
	11/27/2017	3.4	69	57	0.62	7.34	200	570	< 0.003	0.011	0.022	< 0.001	< 0.005	< 0.001	< 0.002	0.048	0.442	< 0.0025	< 0.002			
	5/29/2018	4.5	160	43	0.40	6.85	420	990	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/5/2018	3.1	77	59	0.61	8.06	180	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/3/2019	2.9	47	59	0.60	8.30	140	400	< 0.003	0.0094	0.013	< 0.001	< 0.005	< 0.001	< 0.002	0.069	0.37	< 0.0025	< 0.002			
	11/19/2019	4.7	140	43	0.7	7.37	270	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/2020	3.4	86	48	1.0	8.00	250	580	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/17/2020	4.0	79	20	0.8	7.67	310	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/5/2021	4.6	70	37	0.7	8.39	190	420	< 0.003	0.008	0.03	< 0.001	< 0.005	< 0.001	< 0.002	0.023	0.97	< 0.0025	< 0.002			
	8/18/2021	4.1	84	39	0.5	7.92	190	480	< 0.003	0.0088	0.029	< 0.001	< 0.005	< 0.001	< 0.002	0.021	< 0.525	< 0.0025	< 0.002			
	11/3/2021	4.2	59	43	0.6	7.78	170	410	< 0.003	0.009	0.025	< 0.001	< 0.005	< 0.001	< 0.002	0.03	0.763	< 0.0025	< 0.002			
	2/8/2022	0.2	71	34	0.5	8.00	200	580	< 0.003	0.021	0.025	< 0.001	< 0.005	< 0.001	< 0.002	0.028	0.64	< 0.0025	< 0.002			
	5/23/2022	3.5	77	30	0.5	8.12	190	510	< 0.003	0.02	0.03	< 0.001	< 0.005	< 0.001	< 0.002	0.024	0.66	0.0035	< 0.002			
	8/22/2022	3.3	84	33	0.3	7.59	220	650	< 0.003	0.011	0.024	< 0.001	< 0.005	< 0.001	< 0.002	0.029	0.4	< 0.0025	< 0.002			
	11/7/2022	3.5	120	36	0.3	7.40	270	700	< 0.003	0.013	0.033	< 0.001	< 0.005	< 0.001	< 0.002	0.028	1.47	< 0.0025	< 0.002			
	2/13/2023	3.8	83	45	0.34	7.90	180	400	< 0.003	0.0086	0.029	< 0.001	< 0.005	< 0.001	< 0.002	0.022	0.64	0.0042	< 0.002			
	5/6/2023	3.1	62	47	0.5	8.00	210	450	< 0.003	0.009	0.037	< 0.001	< 0.005	< 0.001	< 0.002	0.022	0.60	0.0043	< 0.002			
	8/7/2023	3.2	65	51	0.40	8.17	210	480	< 0.003	0.009	0.022	< 0.001	< 0.005	< 0.001	< 0.002	0.023	0.58	0.0043	< 0.002			
	11/28/2023	2.8	61	67	0.36	7.58	150	480	< 0.003	0.0082	0.021	< 0.001	< 0.005	< 0.001	< 0.002	0.017	0.557	0.0044	< 0.002			
	2/5/2024	3.5	67	78	0.49	8.16	170	530	< 0.003	0.0086	0.024	< 0.001	< 0.005	< 0.001	< 0.002	0.019	0.981	0.0040	< 0.002			
	5/20/2024	5.1	170	70	0.24	7.02	360	980	< 0.003	0.0087	0.057	< 0.001	< 0.005	< 0.001	< 0.002	0.017	0.628	0.0150	< 0.002			
	8/12/2024	3.6	91	73	0.37	7.32	240	640	< 0.003	0.0079	0.029	< 0.001	< 0.005	< 0.001	< 0.002	0.029	0.638	0.0063	< 0.002			
	11/11/2024	3.4	62	73	0.39	7.83	180	490	< 0.003	0.0090	0.019	< 0.001	< 0.005	< 0.001	< 0.002	0.022	< 0.651	< 0.0025	< 0.002			
MW-03 down gradient	11/2/2015	2.3	72	87	0.51	9.26	270	570	< 0.003	0.0068	0.011	< 0.001	< 0.005	< 0.001	< 0.002	0.0370	0.071	< 0.0025	< 0.002			
	3/1/2016	2.9	61	70	0.33	7.33	220	530	< 0.003	0.0069	0.015	< 0.001	< 0.005	< 0.001	< 0.002	0.0						

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Turbidity (NTU)
MW-09	3/3/2021	4.70
	3/30/2021	10.15
	5/6/2021	3.44
	5/27/2021	12.41
	6/18/2021	27.7
	7/8/2021	28.77
	8/19/2021	77.36
	9/29/2021	18.41
	11/4/2021	12.66
	2/10/2022	34.39
	5/24/2022	170.87
	8/23/2022	34.9
	11/7/2022	195.02
	2/14/2023	20.46
	5/9/2023	9.34
	8/8/2023	18.85
	11/28/2023	27.24
	2/6/2024	147.43
	5/21/2024	105.62
	8/13/2024	10.56
	11/12/2024	15.83
MW-11	3/2/2021	2.20
	3/30/2021	6.08
	5/6/2021	2.34
	5/27/2021	2.69
	6/18/2021	13.7
	7/8/2021	4.71
	8/19/2021	139.34
	9/29/2021	402.9
	11/4/2021	152.7
	2/10/2022	13.8
	5/24/2022	2.18
	8/23/2022	3.17
	11/8/2022	7771.57*
	2/14/2023	5.12
	5/9/2023	16.30
	8/8/2023	11.59
	11/28/2023	7.01
	2/6/2024	5.32
	5/21/2024	6.08
	8/13/2024	6.04
	11/12/2024	77.59
MW-14	3/2/2021	2035
	3/30/2021	151.5
	5/6/2021	901.4
	5/27/2021	2385.61
	6/18/2021	69.25
	7/8/2021	73.18
	8/19/2021	77.04
	9/29/2021	8.42
	11/4/2021	7.42
	2/10/2022	81.72
	5/24/2022	43.52
	8/23/2022	24.76
	11/8/2022	311.78
	2/14/2023	660.17
	5/9/2023	16.57
	8/8/2023	10.85
	11/28/2023	220.56
	2/6/2024	80.17
	5/21/2024	38.51
	8/13/2024	59.22
	11/12/2024	54.91

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Turbidity (NTU)
MW-01	3/1/2021	0.59
	3/30/2021	5.72
	5/5/2021	1.42
	5/27/2021	2.02
	6/18/2021	2.33
	7/8/2021	3.60
	8/18/2021	2.33
	9/29/2021	3.03
	11/3/2021	3.05
	2/8/2022	4.60
	5/23/2022	2.92
	8/22/2022	1.31
	11/7/2022	41.21
	2/13/2023	2.90
	5/8/2023	3.21
	8/7/2023	3.15
	11/27/2023	3.74
	2/5/2024	5.07
	5/20/2024	4.72
	8/12/2024	6.80
	11/11/2024	2.25
MW-02	3/1/2021	0.69
	3/30/2021	5.66
	5/5/2021	1.65
	5/27/2021	2.95
	6/18/2021	2.71
	7/8/2021	4.20
	8/18/2021	9.03
	9/29/2021	3.42
	11/3/2021	4.05
	2/8/2022	13.4
	5/23/2022	30.54
	8/22/2022	25.43
	11/7/2022	23.82
	2/13/2023	5.25
	5/8/2023	14.43
	8/7/2023	2.32
	11/28/2023	4.56
	2/5/2024	5.15
	5/20/2024	8.91
	8/12/2024	6.11
	11/11/2024	17.58
MW-03	3/1/2021	0.75
	3/30/2021	5.73
	5/5/2021	1.71
	5/27/2021	2.02
	6/18/2021	2.56
	7/8/2021	3.74
	8/18/2021	2.60
	9/29/2021	2.82
	11/3/2021	3.26
	2/8/2022	8.27
	5/23/2022	4.11
	8/22/2022	1.91
	11/7/2022	2.27
	2/13/2023	2.86
	5/8/2023	3.61
	8/7/2023	2.68
	11/27/2023	3.57
	2/5/2024	5.03
	5/20/2024	6.09
	8/12/2024	6.37
	11/11/2024	3.05

Table 2. Groundwater Turbidity - Midwest Generation, LLC, Waukegan Station, Waukegan, IL.

Well	Date	Turbidity (NTU)
MW-04	3/1/2021	1.30
	3/30/2021	6.21
	5/5/2021	1.77
	5/27/2021	2.73
	6/18/2021	3.69
	7/8/2021	5.36
	8/18/2021	40.61
	9/29/2021	3.48
	11/3/2021	4.26
	2/8/2022	13.32
	5/23/2022	28.94
	8/22/2022	2.57
	11/7/2022	41.15
	2/13/2023	3.76
	5/9/2023	15.03
	8/8/2023	2.54
	11/27/2023	4.22
	2/5/2024	3.73
	5/21/2024	5.67
	8/12/2024	6.33
	11/11/2024	3.79
MW-16	3/1/2021	0.77
	3/30/2021	6.07
	5/6/2021	1.63
	5/27/2021	2.00
	6/18/2021	2.59
	7/8/2021	3.58
	8/18/2021	3.22
	9/29/2021	6.05
	11/4/2021	4.00
	2/8/2022	21.6
	5/23/2022	11.75
	8/22/2022	3.54
	11/7/2022	42.55
	2/13/2023	32.31
	5/9/2023	2.95
	8/8/2023	2.81
	11/28/2023	45.54
	2/6/2024	11.95
	5/21/2024	9.87
	8/13/2024	7.08
	11/12/2024	23.93

\* - MW-11 November 2022 turbidity is a field recording error.

Table 3. Proposed Site-Specific Groundwater Protection Standards - Waukegan Generating Station

Upgradient Well(s)	Parameter	Section 845.600 Standards	Interwell Background Prediction Limit	Proposed GWPS
MW-14	Antimony	0.006	0.015	<b>0.015</b>
MW-11/MW-14 Pooled	Arsenic	0.01	21	<b>21</b>
MW-11	Barium	2	0.064	<b>2</b>
MW-9/MW-11/MW-14 Pooled	Beryllium	0.004	0.001	<b>0.004</b>
MW-11	Boron	2.0	5.965	<b>5.965</b>
MW-14	Cadmium	0.005	0.002	<b>0.005</b>
MW-11/MW-14 Pooled*	Chloride	200	389	<b>389</b>
MW-14	Chromium	0.1	4.8	<b>4.8</b>
MW-14	Cobalt	0.006	0.007	<b>0.007</b>
MW-14	Combined Radium 226 + 228 (pCi/L)	5.0	1.566	<b>5.0</b>
MW-14	Fluoride	4.0	0.334	<b>4.0</b>
MW-9/MW-11/MW-14 Pooled	Lead	0.0075	0.0011	<b>0.0075</b>
MW-14	Lithium	0.04	0.040	<b>0.040</b>
MW-14	Mercury	0.002	0.0004	<b>0.002</b>
MW-11/MW-14 Pooled	Molybdenum	0.10	0.009	<b>0.100</b>
MW-11/MW-14 Pooled	pH (standard units)	6.5-9.0	6.51-7.74	<b>6.5-9.0</b>
MW-11/MW-14 Pooled	Selenium	0.05	0.014	<b>0.050</b>
MW-11/MW-14 Pooled*	Sulfate	400	259.1	<b>400</b>
MW-9/MW-11/MW-14 Pooled	Thallium	0.002	0.002	<b>0.002</b>
MW-11/MW-14 Pooled*	Total Dissolved Solids	1200	1589	<b>1589</b>
MW-11	Calcium	NE	225.1	<b>225.1</b>
MW-14	Turbidity (NTU)	NE	12,436	<b>12,436</b>

All values are in mg/L (ppm) unless otherwise noted.

\* - Limited to original 8 background samples.

NE - Not Established

**Bold** - Site-specific Groundwater Protection Standard based on Section 845.600(a)(2)

Table 4. Groundwater Elevations - Midwest Generation, LLC, Waukegan Station, Waukegan, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-01	11/2/2015	603.12	20.75	582.37
	2/29/2016	603.12	20.71	582.41
	5/2/2016	603.12	20.89	582.23
	8/23/2016	603.12	22.01	581.11
	12/2/2016	603.62	22.27	581.35
	2/21/2017	603.62	22.42	581.20
	5/15/2017	603.62	20.52	583.10
	7/5/2017	603.62	21.81	581.81
	9/11/2017	603.62	21.47	582.15
	11/27/2017	603.62	21.82	581.80
	5/29/2018	603.62	19.43	584.19
	11/5/2018	603.62	20.45	583.17
	5/14/2019	603.62	19.81	583.81
	11/18/2019	603.62	19.89	583.73
	4/21/2020	603.62	20.81	582.81
	11/17/2020	603.62	21.51	582.11
	3/1/2021	603.62	21.19	582.43
	3/30/2021	603.62	21.34	582.28
	5/5/2021	603.62	21.76	581.86
	5/27/2021	603.62	21.78	581.84
	6/18/2021	603.62	21.90	581.72
	7/8/2021	603.62	21.75	581.87
	8/18/2021	603.62	21.82	581.80
	9/29/2021	603.62	22.22	581.40
	10/12/2021	603.62	21.65	581.97
	11/3/2021	603.62	21.45	582.17
	12/14/2021	603.62	21.52	582.10
	1/12/2022	603.62	21.73	581.89
	2/8/2022	603.62	22.00	581.62
	3/10/2022	603.62	21.67	581.95
	4/14/2022	603.62	22.27	581.35
	5/23/2022	603.62	21.25	582.37
	6/28/2022	603.62	21.80	581.82
	7/18/2022	603.62	22.00	581.62
	8/22/2022	603.62	21.78	581.84
	9/26/2022	603.62	21.75	581.87
	10/3/2022	603.62	21.95	581.67
	11/7/2022	603.62	22.17	581.45
	12/15/2022	603.62	21.90	581.72
	1/17/2023	603.62	21.60	582.02
	2/13/2023	603.62	21.76	581.86
	3/15/2023	603.62	21.40	582.22
	4/26/2023	603.62	21.35	582.27
	5/8/2023	603.62	21.46	582.16
	6/7/2023	603.62	21.90	581.72
	7/3/2023	603.62	21.80	581.82
	8/7/2023	603.62	22.22	581.40
	9/13/2023	603.62	22.45	581.17
	10/23/2023	603.62	22.05	581.57
	11/27/2023	603.62	22.28	581.34
	12/26/2023	603.62	22.10	581.52
	1/27/2024	603.62	21.70	581.92
	2/5/2024	603.62	21.53	582.09
	3/20/2024	603.62	21.70	581.92
	4/16/2024	603.62	21.40	582.22
	5/20/2024	603.62	21.55	582.07
	6/11/2024	603.62	21.45	582.17
	7/11/2024	603.62	21.60	582.02
	8/12/2024	603.62	21.53	582.09
	9/9/2024	603.62	22.40	581.22
	10/10/2024	603.62	21.50	582.12
	11/1/2024	603.62	22.74	580.88
	12/16/2024	603.62	22.85	580.77

Table 4. Groundwater Elevations - Midwest Generation, LLC, Waukegan Station, Waukegan, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-02	11/2/2015	603.04	20.71	582.33
	2/29/2016	603.04	20.59	582.45
	5/2/2016	603.04	20.82	582.22
	8/23/2016	603.04	22.04	581.00
	12/2/2016	603.39	22.13	581.26
	2/21/2017	603.39	22.24	581.15
	5/15/2017	603.39	20.25	583.14
	7/5/2017	603.39	21.59	581.80
	9/11/2017	603.39	21.21	582.18
	11/27/2017	603.39	21.63	581.76
	5/29/2018	603.39	19.12	584.27
	11/5/2018	603.39	20.19	583.20
	5/14/2019	603.39	19.55	583.84
	11/18/2019	603.39	19.60	583.79
	4/21/2020	603.39	20.57	582.82
	11/17/2020	603.39	21.32	582.07
	3/1/2021	603.39	21.04	582.35
	3/30/2021	603.39	21.13	582.26
	5/5/2021	603.39	21.56	581.83
	5/27/2021	603.39	21.60	581.79
	6/18/2021	603.39	21.65	581.74
	7/8/2021	603.39	21.48	581.91
	8/18/2021	603.39	21.56	581.83
	9/29/2021	603.39	22.00	581.39
	10/12/2021	603.39	21.50	581.89
	11/3/2021	603.39	21.26	582.13
	12/14/2021	603.39	21.40	581.99
	1/12/2022	603.39	21.65	581.74
	2/8/2022	603.39	21.90	581.49
	3/10/2022	603.39	21.55	581.84
	4/14/2022	603.39	22.10	581.29
	5/23/2022	603.39	21.11	582.28
	6/28/2022	603.39	21.60	581.79
	7/18/2022	603.39	21.80	581.59
	8/22/2022	603.39	21.65	581.74
	9/26/2022	603.39	21.50	581.89
	10/3/2022	603.39	21.75	581.64
	11/7/2022	603.39	22.22	581.17
	12/15/2022	603.39	21.75	581.64
	1/17/2023	603.39	21.75	581.64
	2/13/2023	603.39	21.69	581.70
	3/15/2023	603.39	21.25	582.14
	4/26/2023	603.39	21.15	582.24
	5/8/2023	603.39	21.35	582.04
	6/7/2023	603.39	21.75	581.64
	7/3/2023	603.39	21.60	581.79
	8/7/2023	603.39	22.08	581.31
	9/13/2023	603.39	22.30	581.09
	10/23/2023	603.39	22.00	581.39
	11/27/2023	603.39	22.14	581.25
	12/26/2023	603.39	22.05	581.34
	1/27/2024	603.39	21.65	581.74
	2/5/2024	603.39	21.42	581.97
	3/20/2024	603.39	21.55	581.84
	4/16/2024	603.39	21.30	582.09
	5/20/2024	603.39	21.40	581.99
	6/11/2024	603.39	21.25	582.14
	7/11/2024	603.39	21.60	581.79
	8/12/2024	603.39	21.33	582.06
	9/9/2024	603.39	22.20	581.19
	10/10/2024	603.39	21.40	581.99
	11/11/2024	603.39	22.60	580.79
	12/16/2024	603.39	22.75	580.64

Table 4. Groundwater Elevations - Midwest Generation, LLC, Waukegan Station, Waukegan, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-03	11/2/2015	602.91	20.37	582.54
	2/29/2016	602.91	20.43	582.48
	5/2/2016	602.91	20.66	582.25
	8/23/2016	602.91	22.12	580.79
	12/2/2016	603.70	22.52	581.18
	2/21/2017	603.70	22.64	581.06
	5/15/2017	603.70	20.55	583.15
	7/5/2017	603.70	21.92	581.78
	9/11/2017	603.70	21.55	582.15
	11/28/2017	603.70	21.96	581.74
	5/29/2018	603.70	19.40	584.30
	11/5/2018	603.70	20.48	583.22
	5/14/2019	603.70	19.80	583.90
	11/18/2019	603.70	20.05	583.65
	4/21/2020	603.70	20.82	582.88
	11/17/2020	603.70	21.60	582.10
	3/1/2021	603.70	21.30	582.40
	3/30/2021	603.70	21.40	582.30
	5/5/2021	603.70	21.83	581.87
	5/27/2021	603.70	21.85	581.85
	6/18/2021	603.70	21.91	581.79
	7/8/2021	603.70	21.71	581.99
	8/18/2021	603.70	21.80	581.90
	9/29/2021	603.70	22.30	581.40
	10/12/2021	603.70	21.70	582.00
	11/3/2021	603.70	21.53	582.17
	12/14/2021	603.70	21.60	582.10
	1/12/2022	603.70	21.97	581.73
	2/8/2022	603.70	22.29	581.41
	3/10/2022	603.70	21.50	582.20
	4/14/2022	603.70	22.30	581.40
	5/23/2022	603.70	21.18	582.52
	6/28/2022	603.70	21.85	581.85
	7/18/2022	603.70	22.10	581.60
	8/22/2022	603.70	21.76	581.94
	9/26/2022	603.70	21.70	582.00
	10/3/2022	603.70	22.00	581.70
	11/7/2022	603.70	22.22	581.48
	12/15/2022	603.70	22.20	581.50
	1/17/2023	603.70	22.10	581.60
	2/13/2023	603.70	22.00	581.70
	3/15/2023	603.70	21.50	582.20
	4/26/2023	603.70	21.40	582.30
	5/8/2023	603.70	25.12	578.58
	6/7/2023	603.70	22.00	581.70
	7/3/2023	603.70	21.87	581.83
	8/7/2023	603.70	22.43	581.27
	9/13/2023	603.70	22.75	580.95
	10/23/2023	603.70	22.30	581.40
	11/27/2023	603.70	22.60	581.10
	12/26/2023	603.70	22.50	581.20
	1/27/2024	603.70	21.85	581.85
	2/5/2024	603.70	21.67	582.03
	3/20/2024	603.70	21.75	581.95
	4/16/2024	603.70	21.40	582.30
	5/20/2024	603.70	21.63	582.07
	6/11/2024	603.70	21.50	582.20
	7/11/2024	603.70	21.80	581.90
	8/12/2024	603.70	21.55	582.15
	9/9/2024	603.70	22.50	581.20
	10/10/2024	603.70	21.80	581.90
	11/11/2024	603.70	23.05	580.65
	12/16/2024	603.70	23.20	580.50

Table 4. Groundwater Elevations - Midwest Generation, LLC, Waukegan Station, Waukegan, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-04	11/2/2015	603.19	20.83	582.36
	2/29/2016	603.19	20.70	582.49
	5/2/2016	603.19	20.94	582.25
	8/23/2016	603.19	22.69	580.50
	12/2/2016	603.17	22.18	580.99
	2/21/2017	603.17	22.36	580.81
	5/15/2017	603.17	20.04	583.13
	7/5/2017	603.17	21.46	581.71
	9/11/2017	603.17	21.05	582.12
	11/28/2017	603.17	21.54	581.63
	5/30/2018	603.17	18.88	584.29
	11/6/2018	603.17	19.96	583.21
	5/14/2019	603.17	19.35	583.82
	11/18/2019	603.17	19.36	583.81
	4/21/2020	603.17	20.40	582.77
	11/18/2020	603.17	21.23	581.94
	3/1/2021	603.17	20.95	582.22
	3/30/2021	603.17	21.02	582.15
	5/5/2021	603.17	21.52	581.65
	5/27/2021	603.17	21.55	581.62
	6/18/2021	603.17	21.62	581.55
	7/8/2021	603.17	21.45	581.72
	8/18/2021	603.17	21.49	581.68
	9/29/2021	603.17	22.08	581.09
	10/12/2021	603.17	21.35	581.82
	11/3/2021	603.17	21.15	582.02
	12/14/2021	603.17	21.40	581.77
	1/12/2022	603.17	21.72	581.45
	2/8/2022	603.17	22.17	581.00
	3/10/2022	603.17	21.73	581.44
	4/14/2022	603.17	22.08	581.09
	5/23/2022	603.17	20.92	582.25
	6/28/2022	603.17	21.55	581.62
	7/18/2022	603.17	21.80	581.37
	8/22/2022	603.17	21.55	581.62
	9/26/2022	603.17	21.40	581.77
	10/3/2022	603.17	21.70	581.47
	11/7/2022	603.17	22.13	581.04
	12/15/2022	603.17	22.05	581.12
	1/17/2023	603.17	21.90	581.27
	2/13/2023	603.17	21.76	581.41
	3/15/2023	603.17	21.50	581.67
	4/26/2023	603.17	21.00	582.17
	5/8/2023	603.17	21.11	582.06
	6/7/2023	603.17	21.65	581.52
	7/3/2023	603.17	21.55	581.62
	8/7/2023	603.17	22.20	580.97
	9/13/2023	603.17	22.75	580.42
	10/23/2023	603.17	22.10	581.07
	11/27/2023	603.17	22.49	580.68
	12/26/2023	603.17	22.40	580.77
	1/27/2024	603.17	21.55	581.62
	2/5/2024	603.17	21.25	581.92
	3/20/2024	603.17	21.40	581.77
	4/16/2024	603.17	21.10	582.07
	5/20/2024	603.17	21.21	581.96
	6/11/2024	603.17	21.05	582.12
	7/11/2024	603.17	21.50	581.67
	8/12/2024	603.17	21.12	582.05
	9/9/2024	603.17	22.25	580.92
	10/10/2024	603.17	21.80	581.37
	11/11/2024	603.17	23.00	580.17
	12/16/2024	603.17	23.25	579.92

Table 4. Groundwater Elevations - Midwest Generation, LLC, Waukegan Station, Waukegan, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-09	11/2/2015	594.00	9.78	584.22
	2/29/2016	594.00	9.89	584.11
	5/2/2016	594.00	9.59	584.41
	8/23/2016	594.00	10.58	583.42
	12/2/2016	594.00	10.27	583.73
	2/21/2017	594.00	10.21	583.79
	5/15/2017	594.00	9.57	584.43
	7/6/2017	594.00	9.81	584.19
	9/11/2017	594.00	10.25	583.75
	11/29/2017	594.00	9.98	584.02
	5/31/2018	594.00	9.38	584.62
	11/6/2018	594.00	9.52	584.48
	5/14/2019	594.00	9.50	584.50
	11/18/2019	594.00	9.62	584.38
	4/21/2020	594.00	9.84	584.16
	11/18/2020	594.00	10.83	583.17
	3/1/2021	594.00	9.90	584.10
	3/30/2021	594.00	10.46	583.54
	5/5/2021	594.00	10.80	583.20
	5/27/2021	594.00	10.92	583.08
	6/18/2021	594.00	11.25	582.75
	7/8/2021	594.00	10.82	583.18
	8/18/2021	594.00	10.99	583.01
	9/29/2021	594.00	11.82	582.18
	10/12/2021	594.00	10.94	583.06
	11/3/2021	594.00	10.53	583.47
	12/14/2021	594.00	10.60	583.40
	1/12/2022	594.00	10.70	583.30
	2/8/2022	594.00	10.95	583.05
	3/10/2022	594.00	10.62	583.38
	4/14/2022	594.00	11.82	582.18
	5/23/2022	594.00	10.41	583.59
	6/28/2022	594.00	10.80	583.20
	7/18/2022	594.00	10.80	583.20
	8/22/2022	594.00	10.76	583.24
	9/26/2022	594.00	10.60	583.40
	10/3/2022	594.00	9.70	584.30
	11/7/2022	594.00	10.71	583.29
	12/15/2022	594.00	10.30	583.70
	1/17/2023	594.00	10.35	583.65
	2/13/2023	594.00	10.06	583.94
	3/15/2023	594.00	9.70	584.30
	4/26/2023	594.00	10.40	583.60
	5/8/2023	594.00	10.55	583.45
	6/7/2023	594.00	10.90	583.10
	7/3/2023	594.00	10.70	583.30
	8/7/2023	594.00	10.91	583.09
	9/13/2023	594.00	11.00	583.00
	10/23/2023	594.00	10.65	583.35
	11/27/2023	594.00	11.02	582.98
	12/26/2023	594.00	10.80	583.20
	1/27/2024	594.00	9.70	584.30
	2/5/2024	594.00	10.26	583.74
	3/20/2024	594.00	10.65	583.35
	4/16/2024	594.00	10.50	583.50
	5/20/2024	594.00	10.60	583.40
	6/11/2024	594.00	10.35	583.65
	7/11/2024	594.00	10.00	584.00
	8/12/2024	594.00	10.44	583.56
	9/9/2024	594.00	10.90	583.10
	10/10/2024	594.00	10.90	583.10
	11/11/2024	594.00	11.09	582.91
	12/16/2024	594.00	11.00	583.00

Table 4. Groundwater Elevations - Midwest Generation, LLC, Waukegan Station, Waukegan, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-11	11/2/2015	590.35	5.27	585.08
	2/29/2016	590.35	5.54	584.81
	5/2/2016	590.35	5.17	585.18
	8/23/2016	590.35	6.04	584.31
	12/2/2016	590.35	5.86	584.49
	2/21/2017	590.35	5.87	584.48
	5/15/2017	590.35	5.33	585.02
	7/6/2017	590.35	5.62	584.73
	9/11/2017	590.35	5.61	584.74
	11/30/2017	590.35	5.68	584.67
	5/31/2018	590.35	5.41	584.94
	11/6/2018	590.35	5.29	585.06
	5/14/2019	590.35	5.55	584.80
	11/18/2019	590.35	5.80	584.55
	4/21/2020	590.35	5.85	584.50
	11/19/2020	590.35	6.66	583.69
	3/1/2021	590.35	5.46	584.89
	3/30/2021	590.35	6.54	583.81
	5/5/2021	590.35	6.81	583.54
	5/27/2021	590.35	6.76	583.59
	6/18/2021	590.35	6.75	583.60
	7/8/2021	590.35	6.72	583.63
	8/18/2021	590.35	6.90	583.45
	9/29/2021	590.35	7.40	582.95
	10/12/2021	590.35	6.77	583.58
	11/3/2021	590.35	6.61	583.74
	12/14/2021	590.35	6.61	583.74
	1/12/2022	590.35	6.68	583.67
	2/8/2022	590.35	6.85	583.50
	3/10/2022	590.35	6.30	584.05
	4/14/2022	590.35	7.40	582.95
	5/23/2022	590.35	6.40	583.95
	6/28/2022	590.35	6.65	583.70
	7/18/2022	590.35	6.60	583.75
	8/22/2022	590.35	6.35	584.00
	9/26/2022	590.35	5.50	584.85
	10/3/2022	590.35	6.40	583.95
	11/7/2022	590.35	6.36	583.99
	12/15/2022	590.35	5.90	584.45
	1/17/2023	590.35	6.40	583.95
	2/13/2023	590.35	6.16	584.19
	3/15/2023	590.35	5.60	584.75
	4/26/2023	590.35	6.30	584.05
	5/8/2023	590.35	6.34	584.01
	6/7/2023	590.35	6.55	583.80
	7/3/2023	590.35	6.30	584.05
	8/7/2023	590.35	6.60	583.75
	9/13/2023	590.35	6.60	583.75
	10/23/2023	590.35	6.25	584.10
	11/27/2023	590.35	6.33	584.02
	12/26/2023	590.35	6.25	584.10
	1/27/2024	590.35	5.80	584.55
	2/5/2024	590.35	6.11	584.24
	3/20/2024	590.35	6.30	584.05
	4/16/2024	590.35	6.10	584.25
	5/20/2024	590.35	6.27	584.08
	6/11/2024	590.35	6.05	584.30
	7/11/2024	590.35	6.30	584.05
	8/12/2024	590.35	6.06	584.29
	9/9/2024	590.35	6.40	583.95
	10/10/2024	590.35	6.70	583.65
	11/11/2024	590.35	6.42	583.93
	12/16/2024	590.35	6.15	584.20

Table 4. Groundwater Elevations - Midwest Generation, LLC, Waukegan Station, Waukegan, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-14	11/2/2015	590.24	5.17	585.07
	2/29/2016	590.24	5.01	585.23
	5/2/2016	590.24	4.49	585.75
	8/23/2016	590.24	6.07	584.17
	12/2/2016	590.24	5.49	584.75
	2/21/2017	590.24	5.33	584.91
	5/15/2017	590.24	4.67	585.57
	7/6/2017	590.24	5.27	584.97
	9/11/2017	590.24	5.78	584.46
	11/30/2017	590.24	5.19	585.05
	6/1/2018	590.24	4.45	585.79
	11/6/2018	590.24	4.32	585.92
	5/14/2019	590.24	4.20	586.04
	11/18/2019	590.24	4.75	585.49
	4/21/2020	590.24	5.00	585.24
	11/19/2020	590.24	5.98	584.26
	3/1/2021	590.24	4.55	585.69
	3/30/2021	590.24	5.60	584.64
	5/5/2021	590.24	6.20	584.04
	5/27/2021	590.24	6.32	583.92
	6/18/2021	590.24	6.60	583.64
	7/8/2021	590.24	6.15	584.09
	8/18/2021	590.24	6.45	583.79
	9/29/2021	590.24	7.14	583.10
	10/12/2021	590.24	6.72	583.52
	11/3/2021	590.24	5.66	584.58
	12/14/2021	590.24	5.74	584.50
	1/12/2022	590.24	5.80	584.44
	2/8/2022	590.24	6.40	583.84
	3/10/2022	590.24	7.00	583.24
	4/14/2022	590.24	7.14	583.10
	5/23/2022	590.24	5.21	585.03
	6/28/2022	590.24	5.60	584.64
	7/18/2022	590.24	6.20	584.04
	8/22/2022	590.24	5.73	584.51
	9/26/2022	590.24	5.70	584.54
	10/3/2022	590.24	5.75	584.49
	11/7/2022	590.24	5.82	584.42
	12/15/2022	590.24	5.10	585.14
	1/17/2023	590.24	5.50	584.74
	2/13/2023	590.24	5.16	585.08
	3/15/2023	590.24	4.70	585.54
	4/26/2023	590.24	5.30	584.94
	5/8/2023	590.24	5.45	584.79
	6/7/2023	590.24	27.00	563.24
	7/3/2023	590.24	5.80	584.44
	8/7/2023	590.24	6.13	584.11
	9/13/2023	590.24	6.20	584.04
	10/23/2023	590.24	5.60	584.64
	11/27/2023	590.24	5.78	584.46
	12/26/2023	590.24	5.50	584.74
	1/27/2024	590.24	4.80	585.44
	2/5/2024	590.24	5.01	585.23
	3/20/2024	590.24	5.40	584.84
	4/16/2024	590.24	5.10	585.14
	5/20/2024	590.24	5.33	584.91
	6/11/2024	590.24	5.00	585.24
	7/11/2024	590.24	5.30	584.94
	8/12/2024	590.24	5.39	584.85
	9/9/2024	590.24	6.15	584.09
	10/10/2024	590.24	5.80	584.44
	11/11/2024	590.24	6.06	584.18
	12/16/2024	590.24	5.95	584.29

Table 4. Groundwater Elevations - Midwest Generation, LLC, Waukegan Station, Waukegan, IL

Well ID	Date	Top of Casing Elevation (ft above MSL)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft above MSL)
MW-16	11/2/2015	607.41	25.13	582.28
	2/29/2016	607.41	24.91	582.50
	5/2/2016	607.41	25.23	582.18
	8/23/2016	607.41	28.33	579.08
	12/2/2016	607.41	28.22	579.19
	2/21/2017	607.41	27.71	579.70
	5/15/2017	607.41	23.99	583.42
	7/6/2017	607.41	27.03	580.38
	9/11/2017	607.41	26.74	580.67
	11/27/2017	607.41	27.49	579.92
	6/1/2018	607.41	23.22	584.19
	11/6/2018	607.41	23.65	583.76
	5/14/2019	607.41	23.40	584.01
	11/18/2019	607.41	23.60	583.81
	4/21/2020	607.41	25.26	582.15
	11/17/2020	607.41	27.50	579.91
	3/1/2021	607.41	27.25	580.16
	3/30/2021	607.41	26.96	580.45
	5/5/2021	607.41	27.50	579.91
	5/27/2021	607.41	27.35	580.06
	6/18/2021	607.41	27.12	580.29
	7/8/2021	607.41	26.41	581.00
	8/18/2021	607.41	26.92	580.49
	9/29/2021	607.41	27.45	579.96
	10/12/2021	607.41	26.99	580.42
	11/3/2021	607.41	27.04	580.37
	12/14/2021	607.41	27.60	579.81
	1/12/2022	607.41	22.80	584.61
	2/8/2022	607.41	28.22	579.19
	3/10/2022	607.41	27.85	579.56
	4/14/2022	607.41	27.40	580.01
	5/23/2022	607.41	25.85	581.56
	6/28/2022	607.41	27.20	580.21
	7/18/2022	607.41	27.30	580.11
	8/22/2022	607.41	27.28	580.13
	9/26/2022	607.41	21.40	580.13
	10/3/2022	607.41	27.40	580.01
	11/7/2022	607.41	28.09	579.32
	12/15/2022	607.41	28.00	579.41
	1/17/2023	607.41	27.80	579.61
	2/13/2023	607.41	27.67	579.74
	3/15/2023	607.41	25.20	582.21
	4/26/2023	607.41	25.40	582.01
	5/8/2023	607.41	25.64	581.77
	6/7/2023	607.41	27.00	580.41
	7/3/2023	607.41	26.65	580.76
	8/7/2023	607.41	27.88	579.53
	9/13/2023	607.41	28.40	579.01
	10/23/2023	607.41	28.00	579.41
	11/27/2023	607.41	28.40	579.01
	12/26/2023	607.41	28.25	579.16
	1/27/2024	607.41	26.05	581.36
	2/5/2024	607.41	25.83	581.58
	3/20/2024	607.41	26.60	580.81
	4/16/2024	607.41	25.50	581.91
	5/20/2024	607.41	25.70	581.71
	6/11/2024	607.41	25.40	582.01
	7/11/2024	607.41	26.20	581.21
	8/12/2024	607.41	25.62	581.79
	9/9/2024	607.41	27.60	579.81
	10/10/2024	607.41	26.60	580.81
	11/11/2024	607.41	28.72	578.69
	12/16/2024	607.41	28.85	578.56

MSL - Mean Sea Level  
TOC - Top of Casing

Table 5. Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate - Waukegan Generation Station.

DATE	Groundwater Flow Direction	Kavg (ft/sec)*	Average Hydraulic Gradient (ft/ft)	Porosity (unitless)**	Estimated Seepage Velocity (ft/day)
1/27/2024	East-Southeast	1.790E-03	0.0028	0.35	1.24
2/5/2024	East-Southeast	1.790E-03	0.0016	0.35	0.71
3/20/2024	East-Southeast	1.790E-03	0.0017	0.35	0.75
4/16/2024	East-Southeast	1.790E-03	0.0019	0.35	0.86
5/20/2024	East-Southeast	1.790E-03	0.0014	0.35	0.63
6/11/2024	East-Southeast	1.790E-03	0.0017	0.35	0.75
7/11/2024	East-Southeast	1.790E-03	0.0016	0.35	0.71
8/12/2024	East-Southeast	1.790E-03	0.0017	0.35	0.75
9/9/2024	East-Southeast	1.790E-03	0.0016	0.35	0.70
10/10/2024	East-Southeast	1.790E-03	0.0016	0.35	0.72
11/11/2024	East-Southeast	1.790E-03	0.0029	0.35	1.27
12/16/2024	East-Southeast	1.790E-03	0.0029	0.35	1.28

\* Kavg - K values from re-evaluation of slug test data as part of groundwater modeling in support of Application for Construction Permit per Illinois State CCR Rule.

\*\* - Porosity estimate from Applied Hydrogeology, Fetter, 1980.

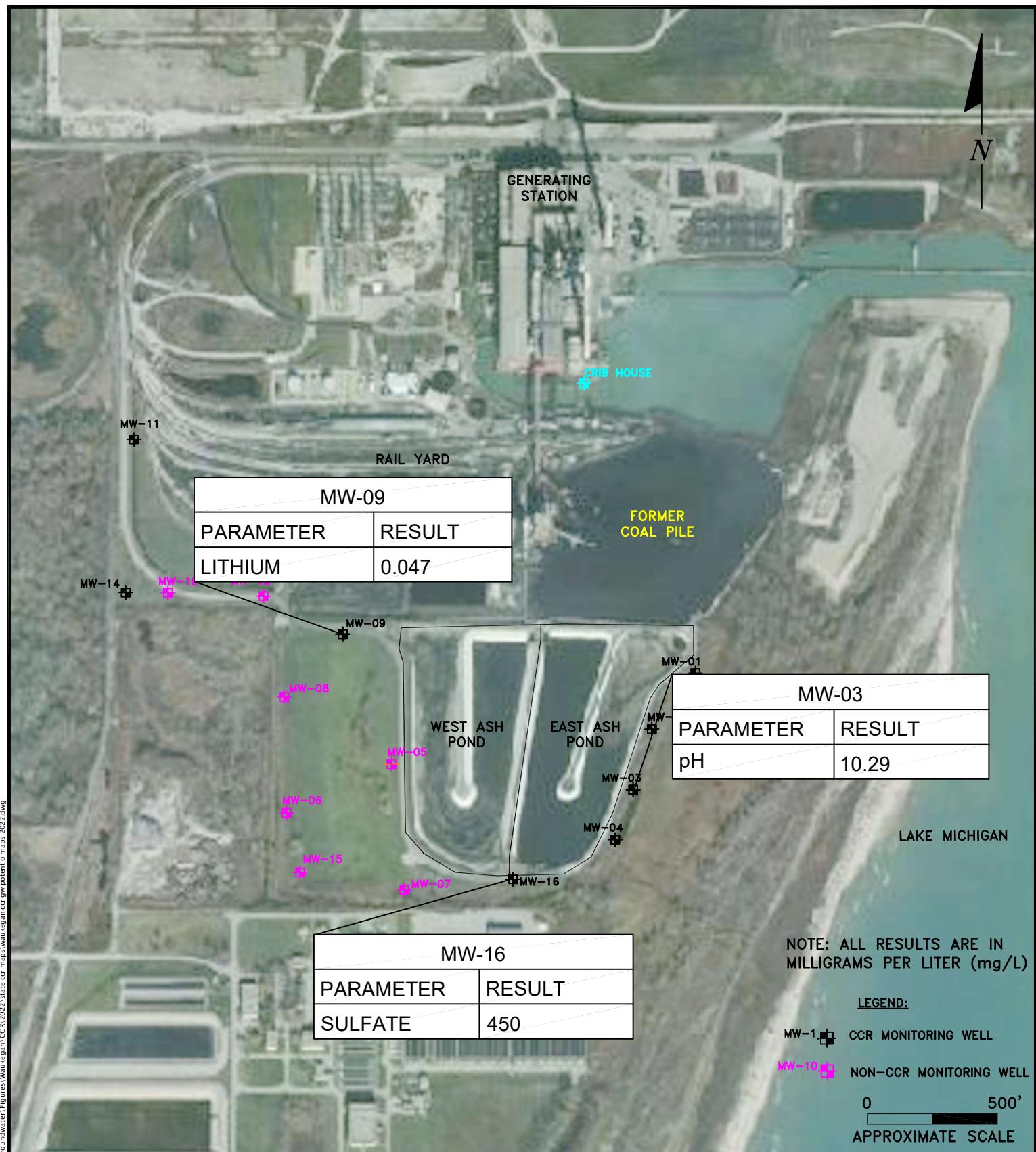
Table 6. CCR Groundwater Sample Collection Summary for 2024 - Waukegan Generating Station

<b>Well ID</b>	<b>Number of Groundwater Sampling Events</b>	<b>Dates of Groundwater Sampling Events</b>
MW-09 (Background)	4	2/5/2024 5/20/2024 8/12/2024 11/11/2024
MW-11 (Background)	4	2/5/2024 5/20/2024 8/12/2024 11/11/2024
MW-14 (Background)	4	2/5/2024 5/20/2024 8/12/2024 11/11/2024
MW-01 (Downgradient)	4	2/5/2024 5/20/2024 8/12/2024 11/11/2024
MW-02 (Downgradient)	4	2/5/2024 5/20/2024 8/12/2024 11/11/2024
MW-03 (Downgradient)	4	2/5/2024 5/20/2024 8/12/2024 11/11/2024
MW-04 (Downgradient)	4	2/5/2024 5/20/2024 8/12/2024 11/11/2024
MW-16 (Downgradient)	4	2/5/2024 5/20/2024 8/12/2024 11/11/2024

## **FIGURES**



ENVIRONMENTAL CONSULTATION & REMEDIATION	CCR MONITORING WELL SITE MAP	
<b>K P R G</b>	WAUKEGAN STATION WAUKEGAN, ILLINOIS	
14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478	Scale: 1" = 550' Date: January 2, 2018	
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593	KPRG Project No. 12313.2	FIGURE 1



ENVIRONMENTAL CONSULTATION & REMEDIATION

# K P R G

KPRG and Associates, inc.

4Q2024 AREAL DISTRIBUTION MAP  
OF PARAMETERS ABOVE GWPSS

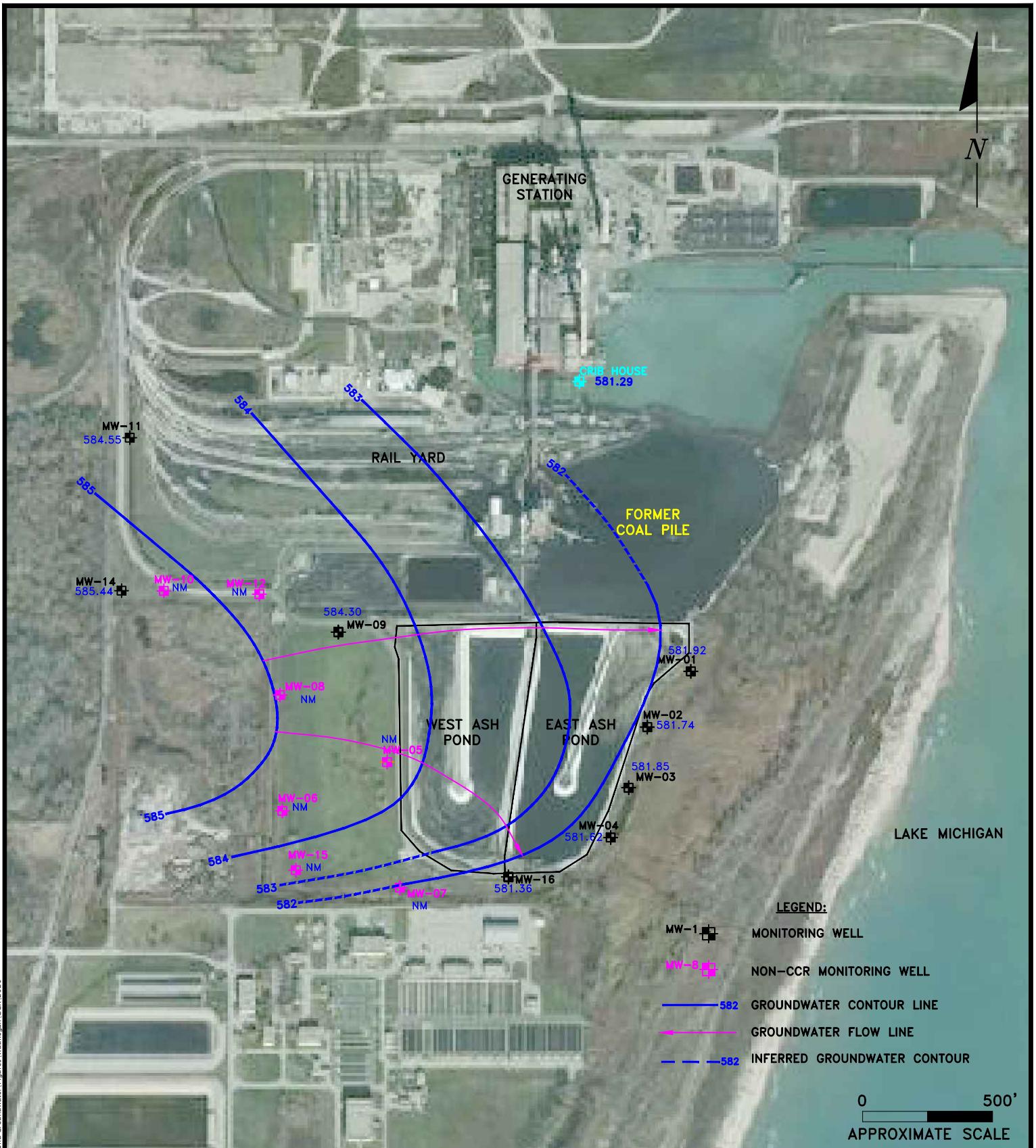
WAUKEGAN STATION  
WAUKEGAN, ILLINOIS

Scale: 1" = 500' Date: January 14, 2025

KPRG Project No. 12313.2

Figure 2

**ATTACHMENT 1**  
**Monthly Potentiometric Maps**



ENVIRONMENTAL CONSULTATION & REMEDIATION

**K P R G**

KPRG and Associates, inc.

POTENTIOMETRIC MAP 01/2024

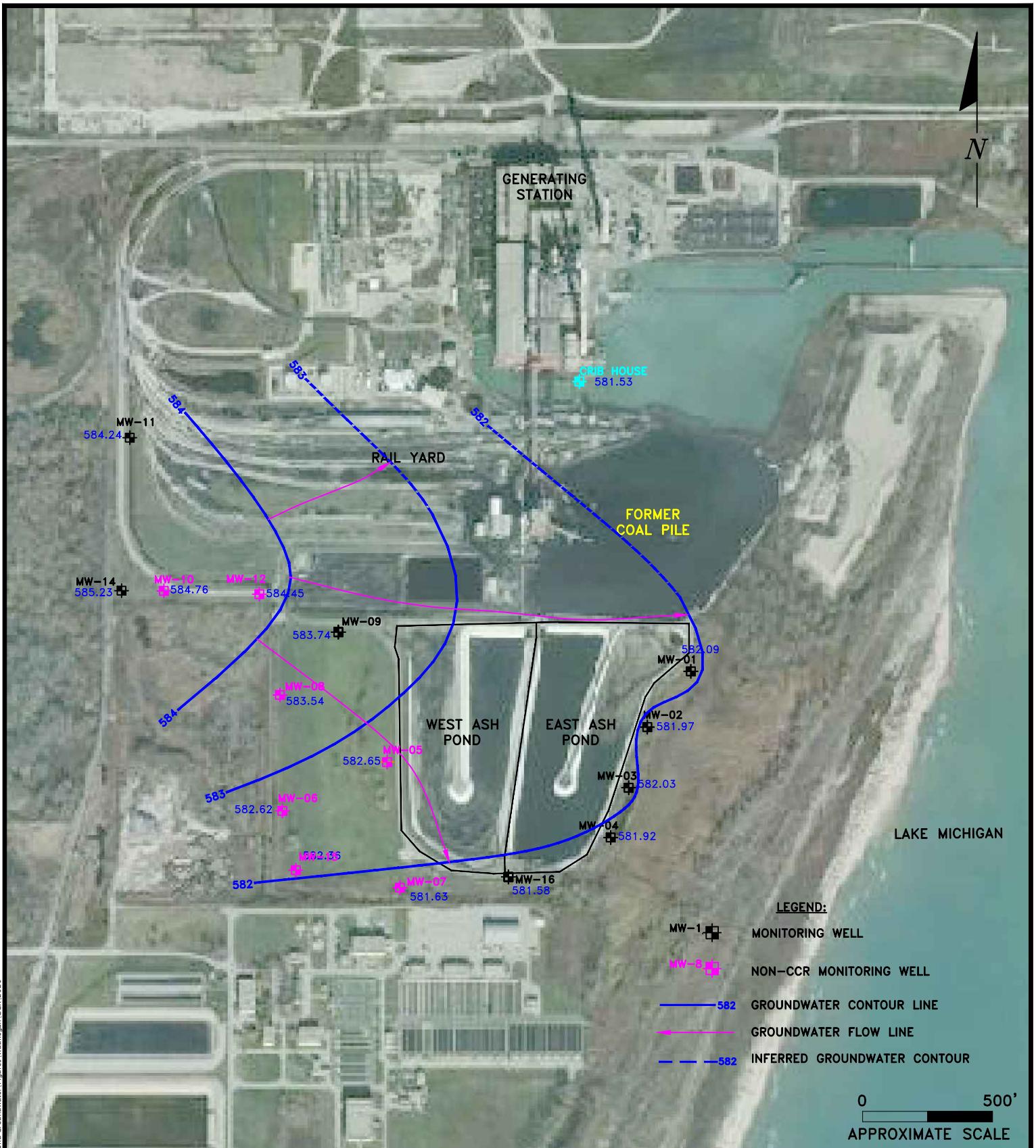
WAUKEGAN STATION  
WAUKEGAN, ILLINOIS

14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

Scale: 1" = 500' Date: December 26, 2024

KPRG Project No. 12313.2

ATTACHMENT 1



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**K P R G**

KPRG and Associates, inc.

POTENTIOMETRIC MAP 02/2024

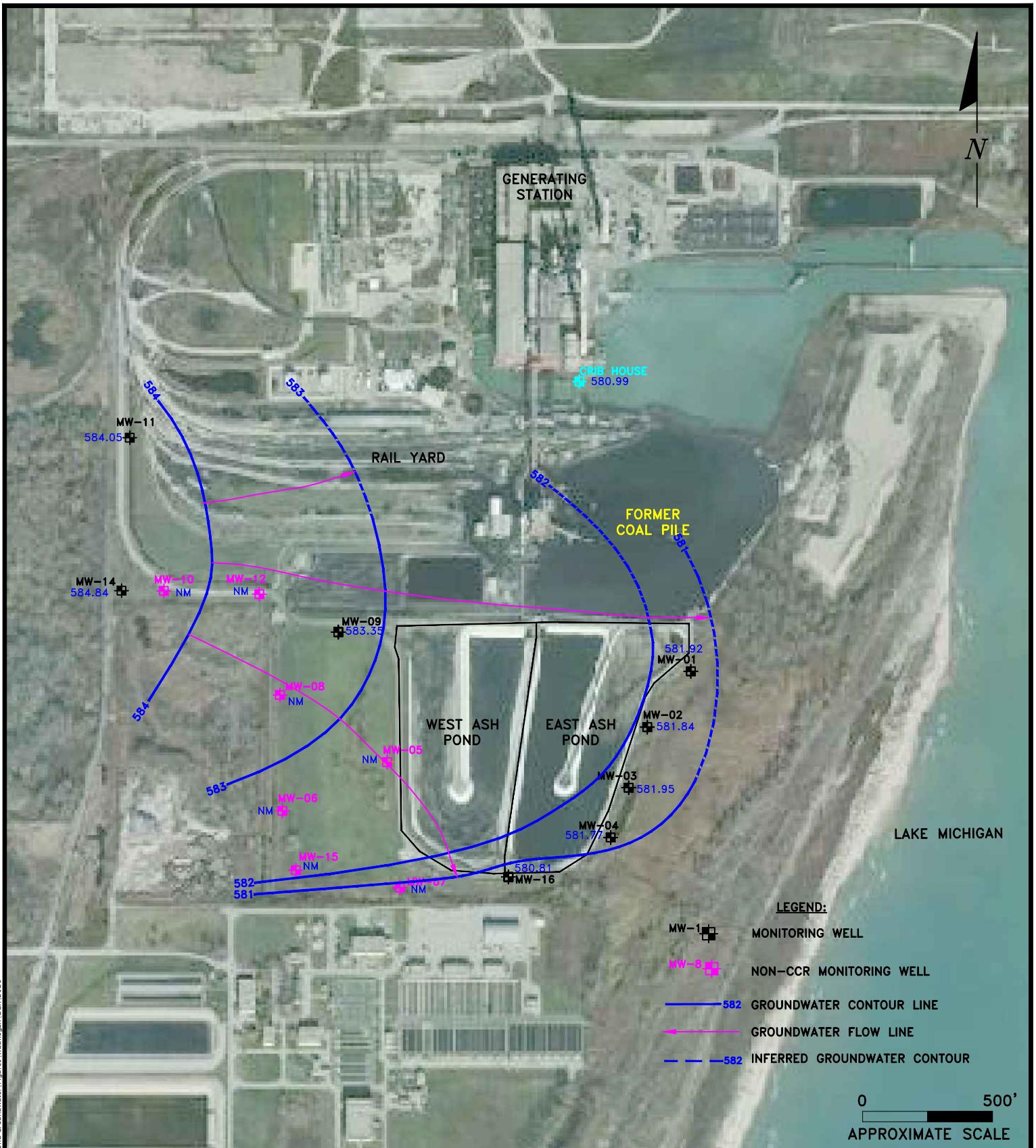
WAUKEGAN STATION  
WAUKEGAN, ILLINOIS

14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

Scale: 1" = 500' Date: December 26, 2024

KPRG Project No. 12313.2

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**K P R G**

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POTENTIOMETRIC MAP 03/2024

WAUKEGAN STATION  
WAUKEGAN, ILLINOIS

Common Projects Midwest Generation | 2313 Ash Pond Groundwater Figures (Waukegan CCR) 2020

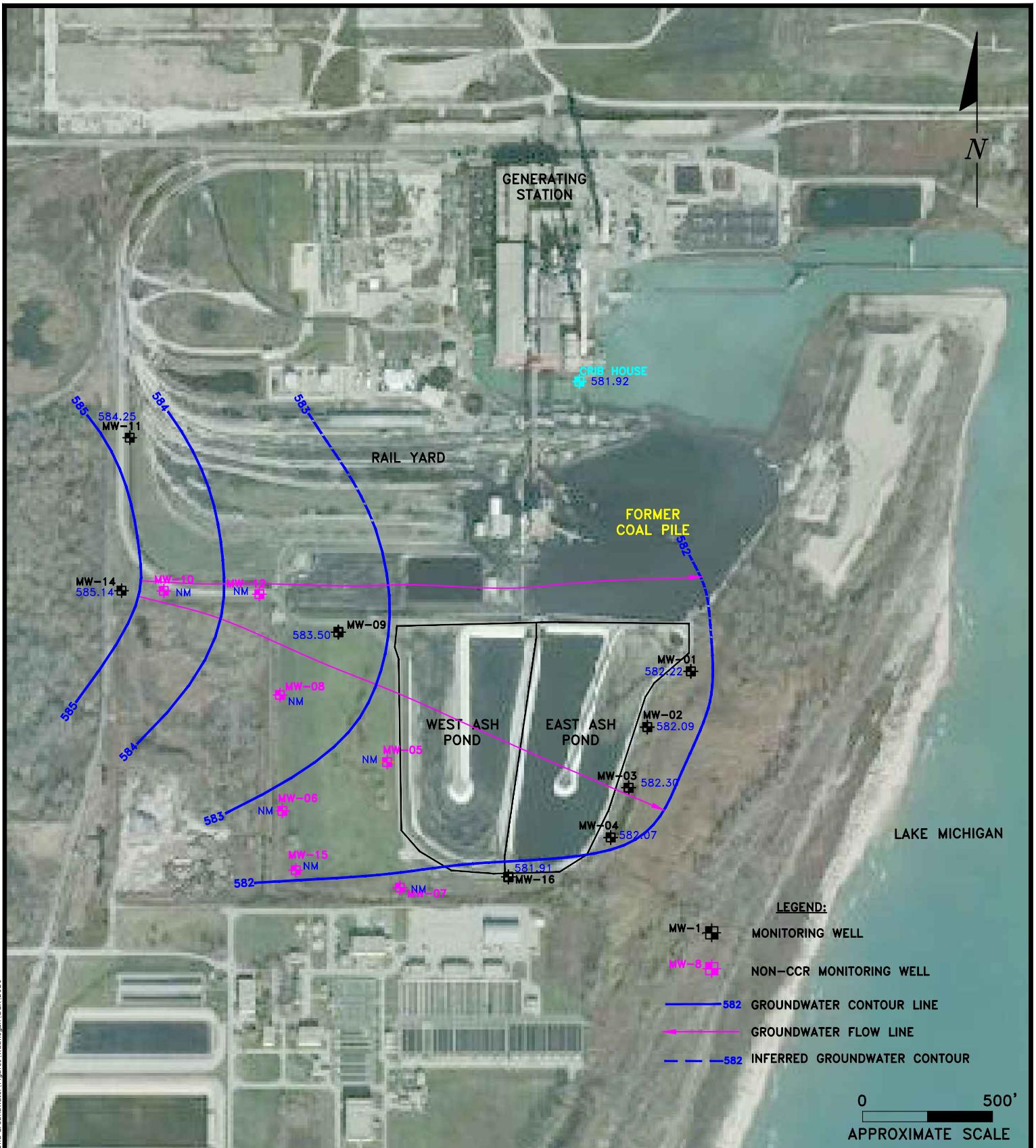
14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

Scale: 1" = 500' Date: November 8, 2024

KPRG Project No. 12313.2

ATTACHMENT 1



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**K P R G**

KPRG and Associates, inc.

POTENTIOMETRIC MAP 04/2024

WAUKEGAN STATION  
WAUKEGAN, ILLINOIS

Common Projects Midwest Generation | 2313 Ash Pond Groundwater Figures (Waukegan CCR) 2020

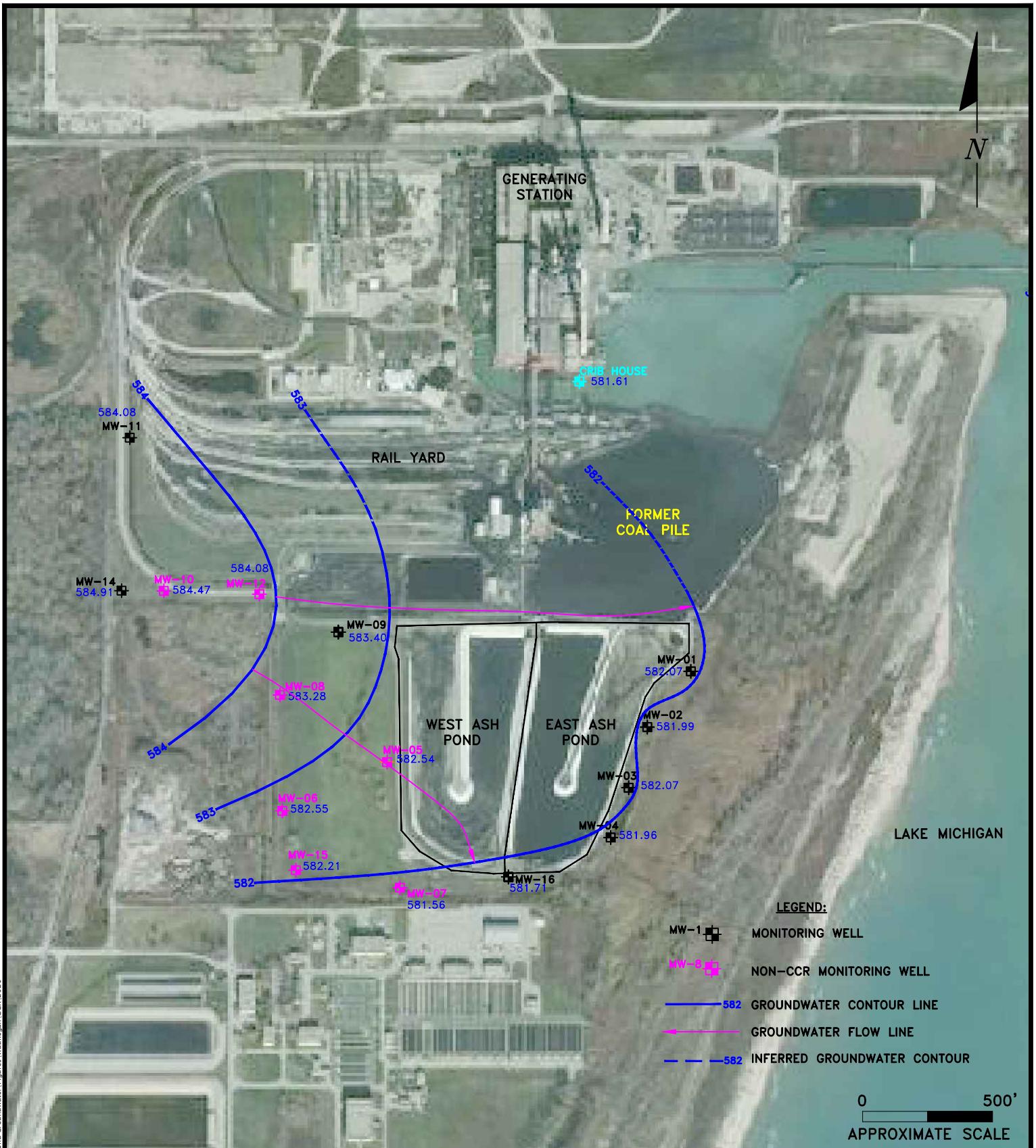
14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

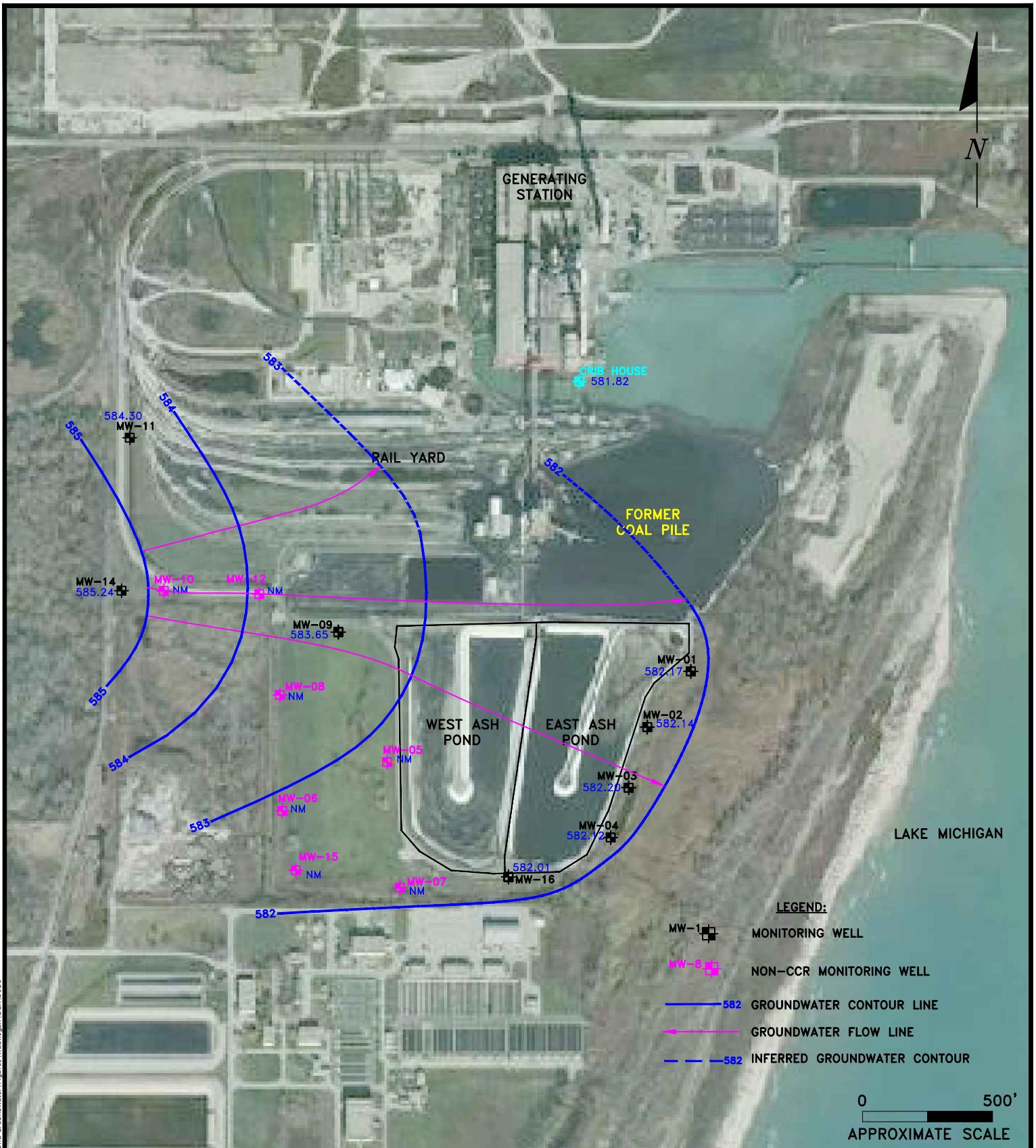
414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

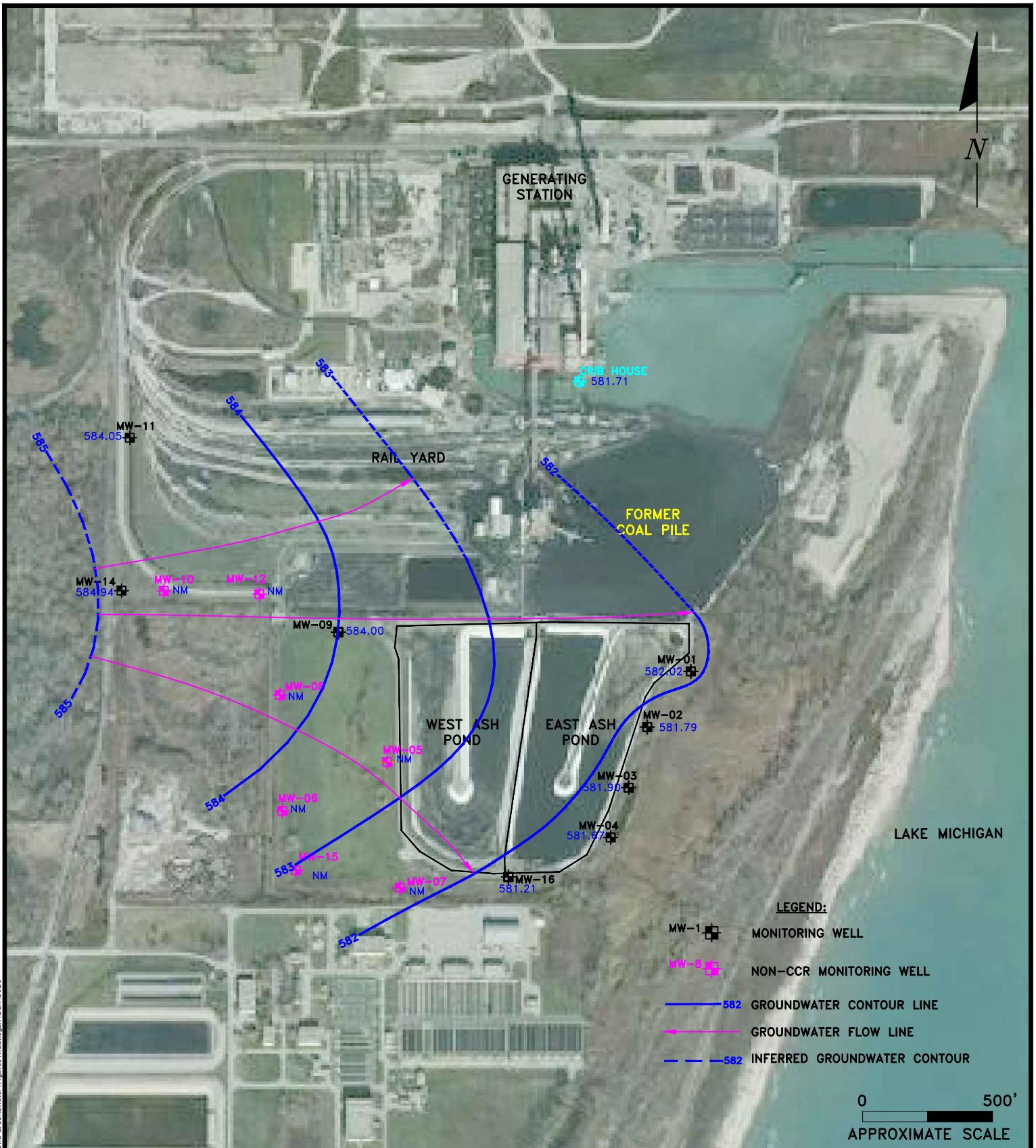
Scale: 1" = 500' Date: January 14, 2025

KPRG Project No. 12313.2

ATTACHMENT 1







ENVIRONMENTAL CONSULTATION & REMEDIATION

**K P R G**

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14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

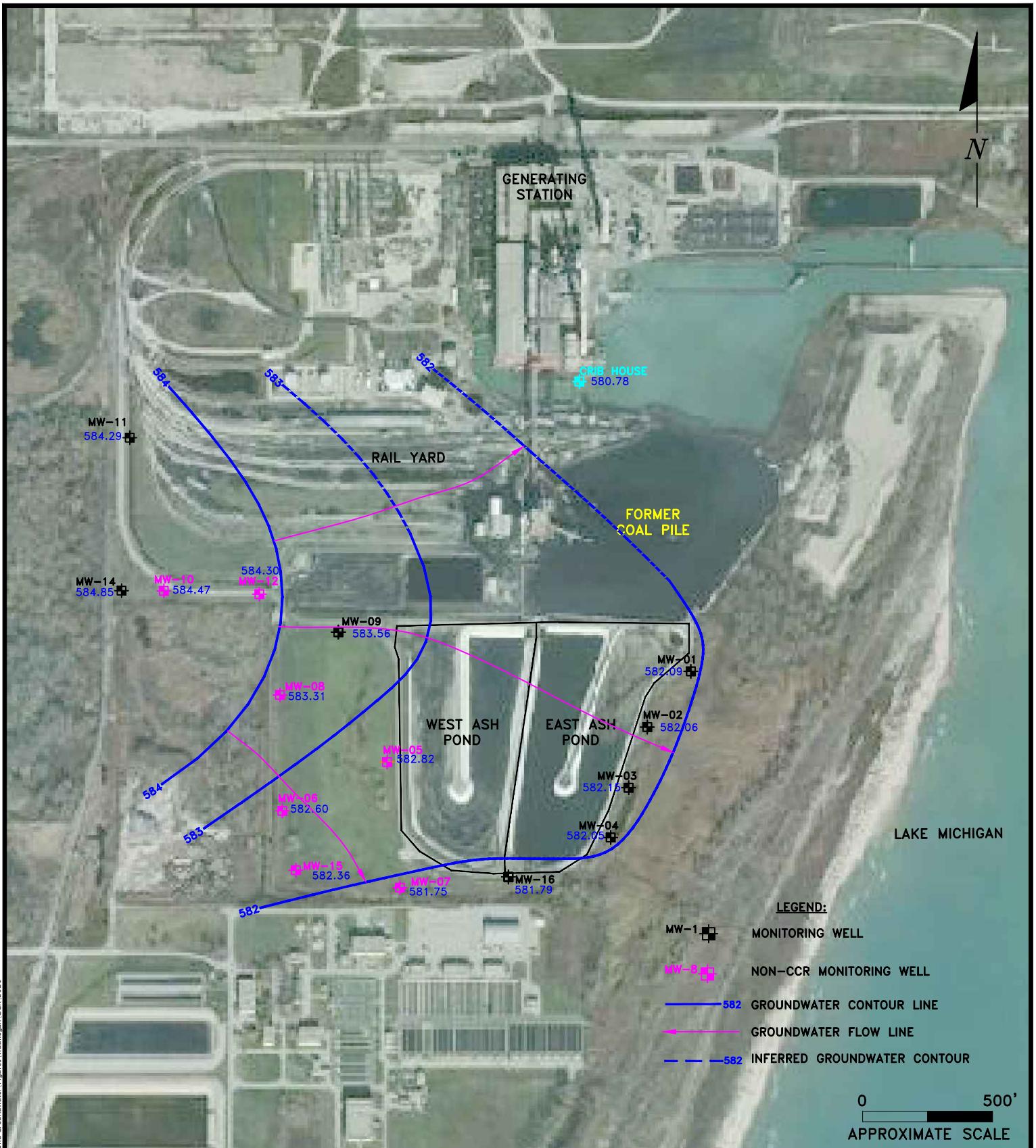
POTENTIOMETRIC MAP 07/2024

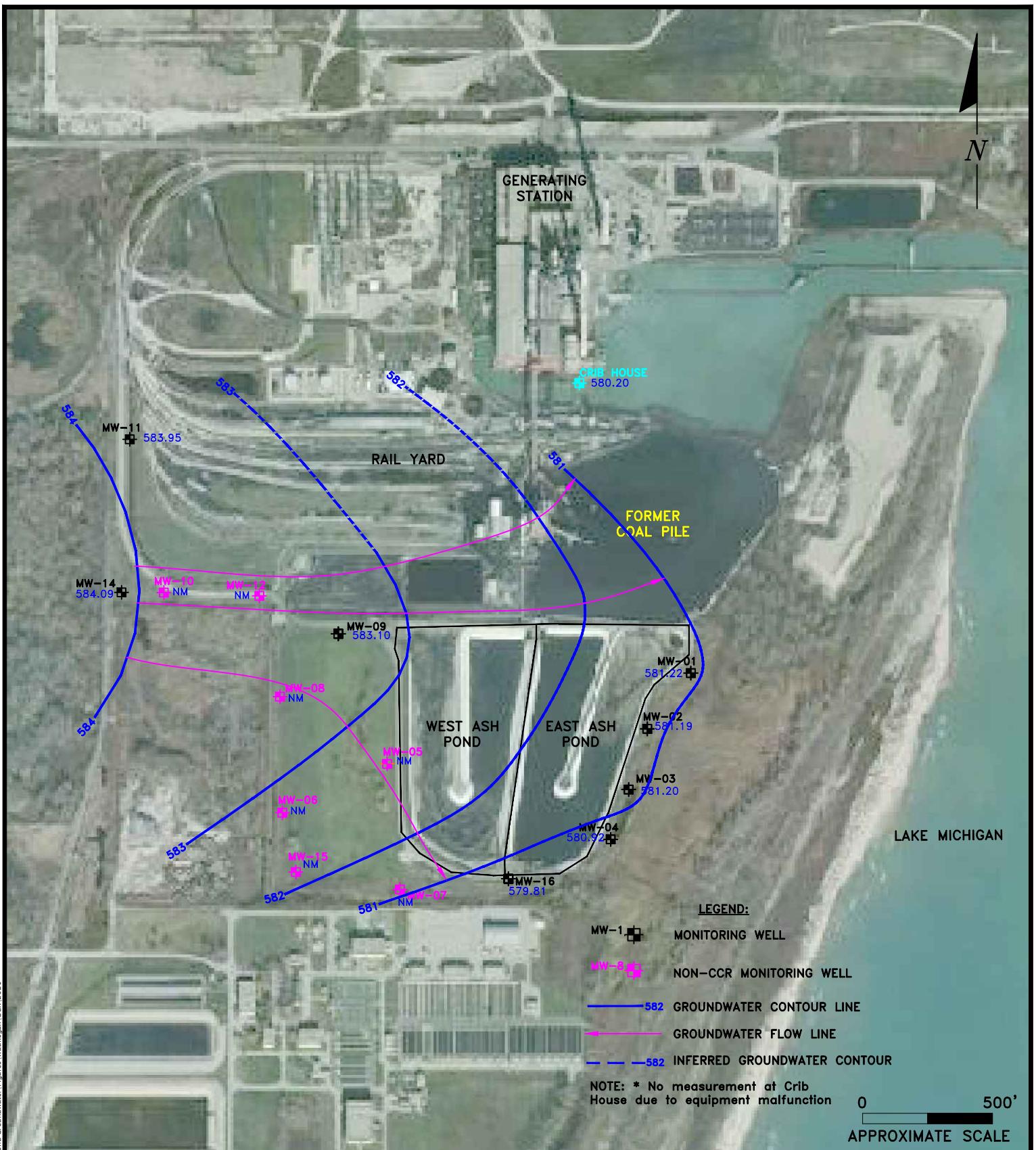
WAUKEGAN STATION  
WAUKEGAN, ILLINOIS

Scale: 1" = 500' Date: December 26, 2024

KPRG Project No. 12313.2

ATTACHMENT 1





ENVIRONMENTAL CONSULTATION & REMEDIATION

# K P R G

KPRG and Associates, inc.

POTENTIOMETRIC MAP 09/2024

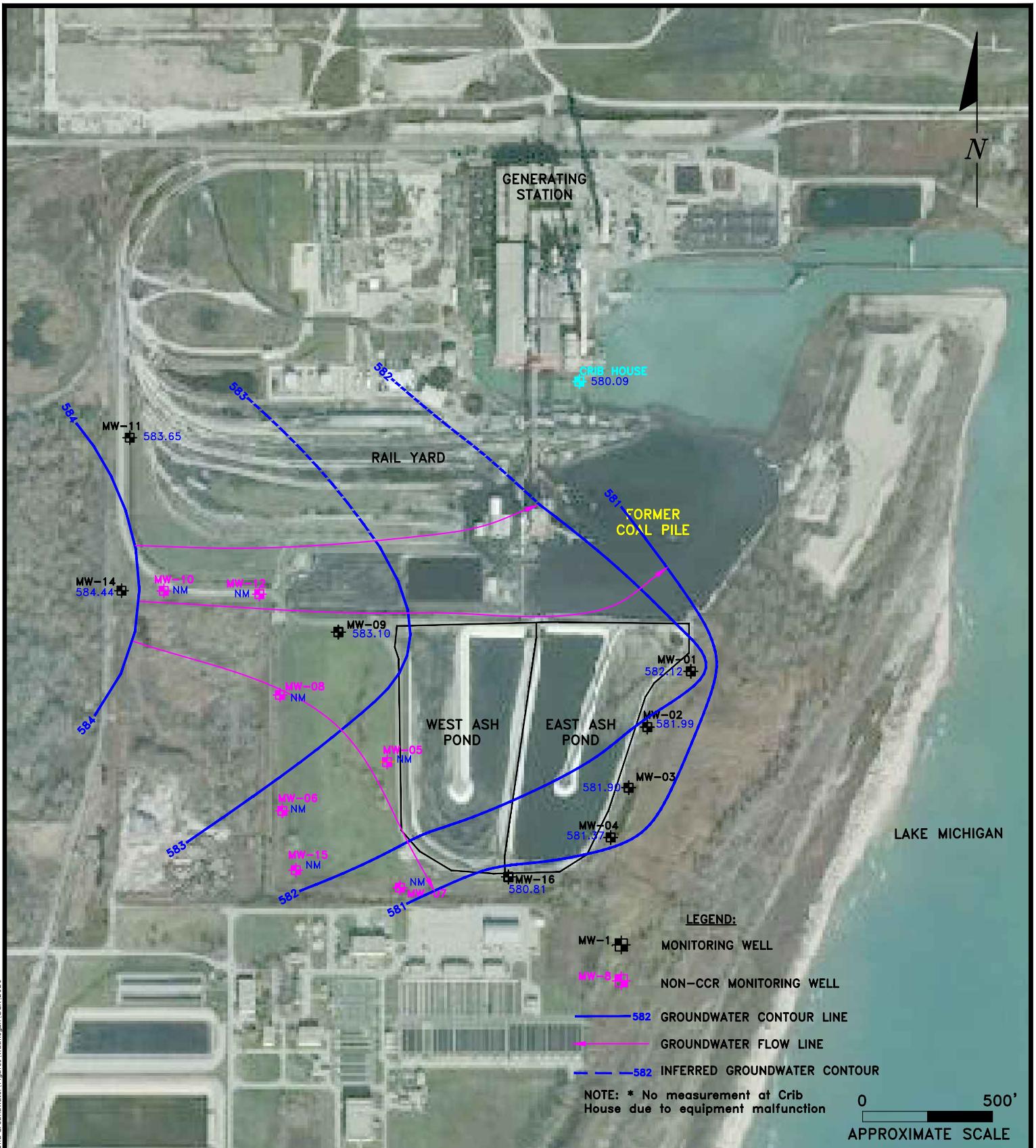
WAUKEGAN STATION  
WAUKEGAN, ILLINOIS

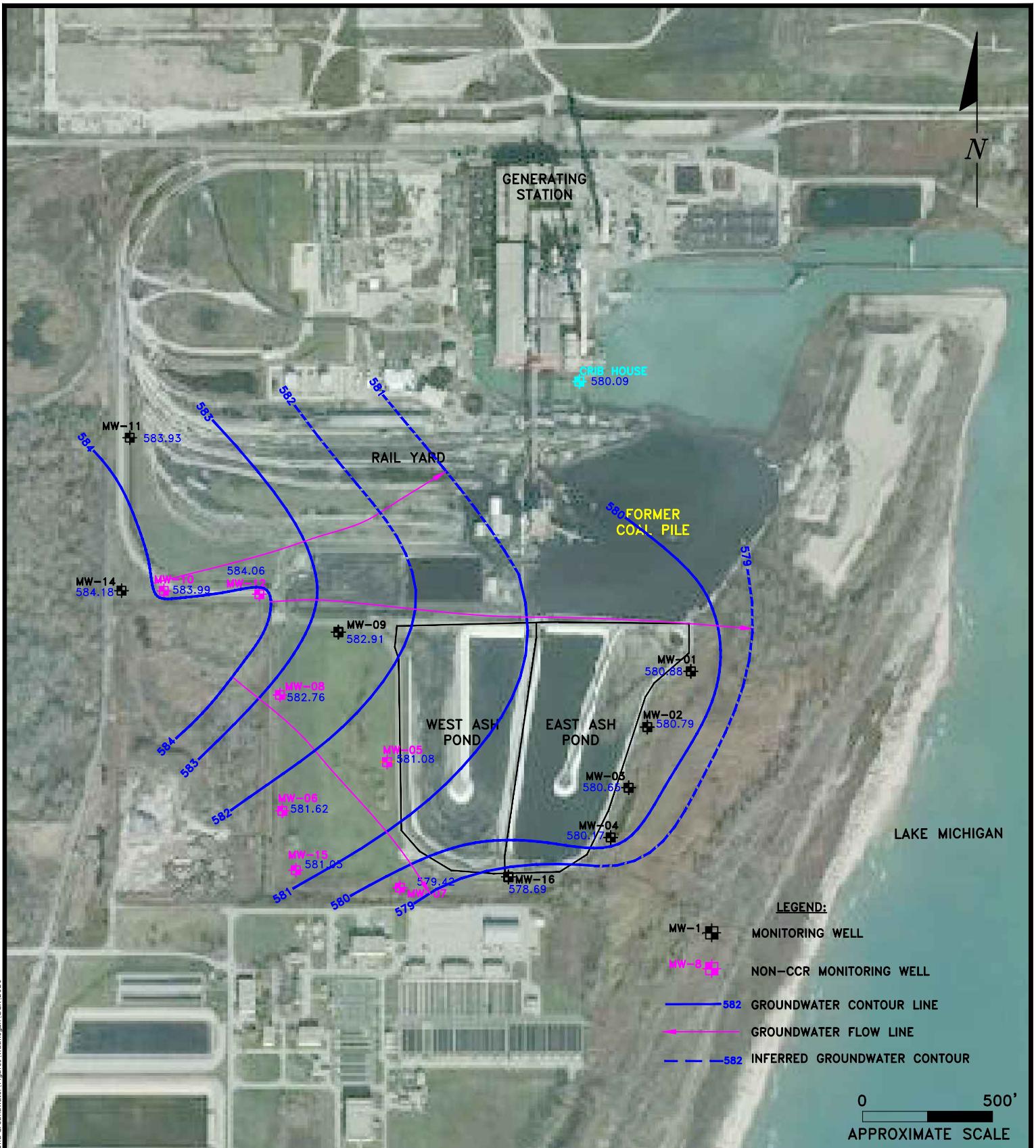
14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

Scale: 1" = 500' Date: December 26, 2024

KPRG Project No. 12313.2

**ATTACHMENT 1**





ENVIRONMENTAL CONSULTATION & REMEDIATION

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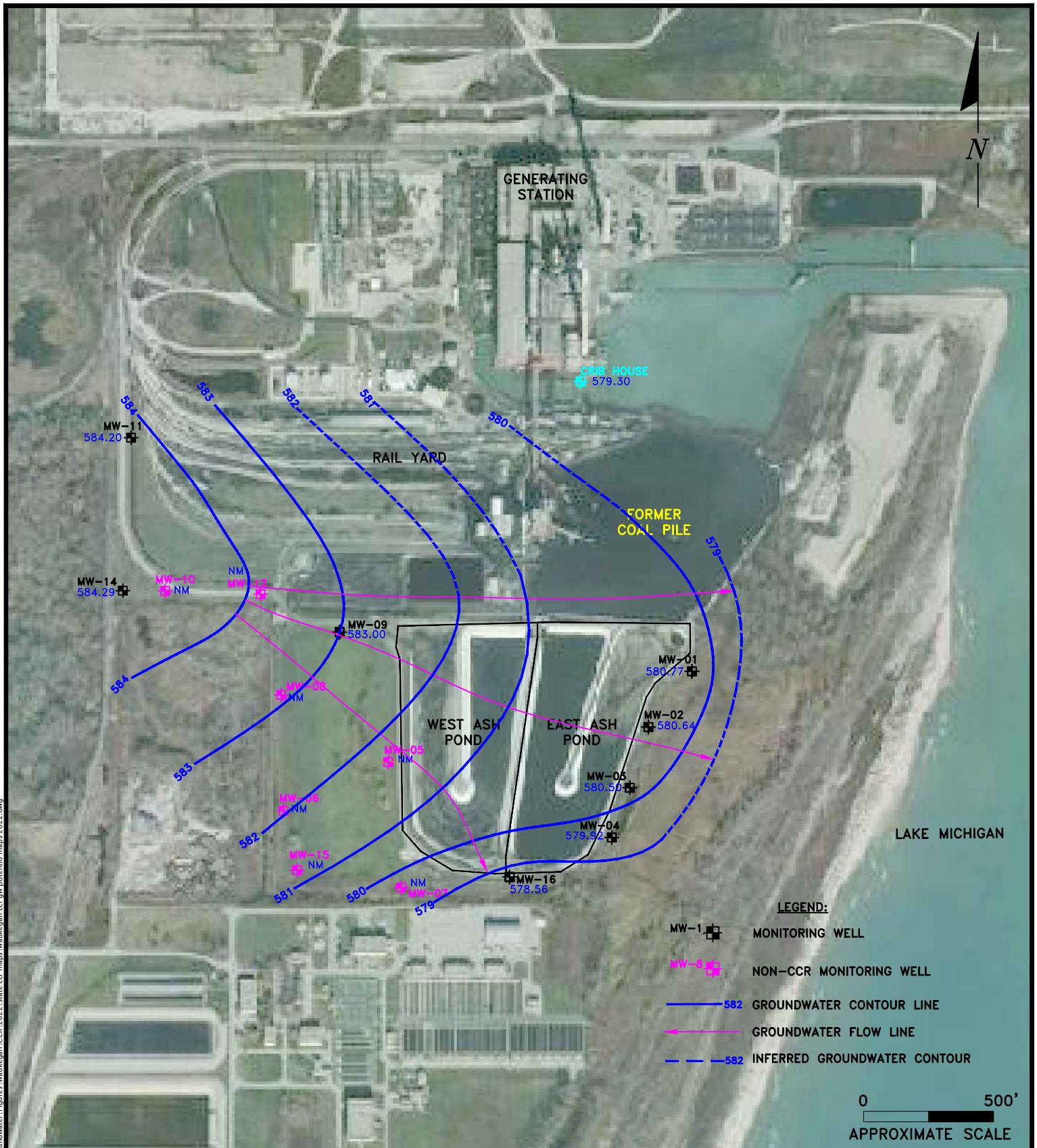
POTENTIOMETRIC MAP 11/2024

WAUKEGAN STATION  
WAUKEGAN, ILLINOIS

Scale: 1" = 500' Date: January 13, 2025

KPRG Project No. 12313.2

ATTACHMENT 1



ENVIRONMENTAL CONSULTATION & REMEDIATION

**K P R G**

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414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

POTENTIOMETRIC MAP 12/2024

WAUKEGAN STATION  
WAUKEGAN, ILLINOIS

Scale: 1" = 500' Date: January 14, 2025

KPRG Project No. 12313.2

ATTACHMENT 1

**ATTACHMENT D**  
**MONTHLY SURFACE IMPOUNDMENT**  
**WATER ELEVATIONS**

Monthly Surface Impoundment Water Elevations  
 Midwest Generation, LLC, Waukegan Station, Waukegan, IL

Surface Impoundment	Date	Basin Bottom Elevation (ft above MSL)	Depth of Water in Pond (ft)	Water Surface Elevation (ft above MSL)
East Pond	12/14/2021	585.56	8.75	594.31
	1/12/2022	585.56	7.81	593.37
	2/8/2022	585.56	7.82	593.38
	3/10/2022	585.56	8.67	594.23
	4/14/2022	585.56	8.20	593.76
	5/23/2022	585.56	8.39	593.95
	6/28/2022	585.56	7.30	592.86
	7/18/2022	585.56	6.00	591.56
	8/22/2022	585.56	7.70	593.26
	9/26/2022	585.56	8.77	594.33
	10/3/2022	585.56	6.31	591.87
	11/7/2022	585.56	6.67	592.23
	12/15/2022	585.56	6.81	592.37
	1/17/2023	585.56	9.01	594.57
	2/13/2023	585.56	7.25	592.81
	3/15/2023	585.56	9.43	594.99
	4/26/2023	585.56	7.52	593.08
	5/8/2023	585.56	8.29	593.85
	6/7/2023	585.56	5.89	591.45
	7/3/2023	585.56	5.61	591.17
	8/7/2023	585.56	6.21	591.77
	9/13/2023	585.56	5.50	591.06
	10/23/2023	585.56	4.11	589.67
	11/27/2023	585.56	15.68	601.24
	12/26/2023	585.56	5.26	590.82
	1/27/2024	585.56	7.21	592.77
	2/5/2024	585.56	8.51	594.07
	3/20/2024	585.56	8.65	594.21
	4/16/2024	585.56	3.15	588.71
	5/20/2024	585.56	2.55	588.11
	6/11/2024	585.56	1.02	586.58
	7/11/2024	585.56	1.02	586.58
	8/12/2024	585.56	0.78	586.34
	9/9/2024	585.56	0.00	585.56
	10/10/2024	585.56	0.00	585.56
	11/11/2024	585.56	0.00	585.56
	12/16/2024	585.56	0.00	585.56
West Pond	12/14/2021	585.56	1.01	586.57
	1/12/2022	585.56	1.10	586.66
	2/8/2022	585.56	1.10	586.66
	3/10/2022	585.56	1.25	586.81
	4/14/2022	585.56	1.11	586.67
	5/23/2022	585.56	1.16	586.72
	6/28/2022	585.56	1.20	586.76
	7/18/2022	585.56	1.00	586.56
	8/22/2022	585.56	0.80	586.36
	9/26/2022	585.56	1.17	586.73
	10/3/2022	585.56	0.85	586.41
	11/7/2022	585.56	0.53	586.09
	12/15/2022	585.56	0.83	586.39
	1/17/2023	585.56	1.01	586.57
	2/13/2023	585.56	0.97	586.53
	3/15/2023	585.56	0.94	586.50
	4/26/2023	585.56	0.94	586.50
	5/8/2023	585.56	3.34	588.90
	6/7/2023	585.56	0.83	586.39
	7/3/2023	585.56	0.71	586.27
	8/7/2023	585.56	0.77	586.33
	9/13/2023	585.56	0.84	586.40
	10/23/2023	585.56	0.00	585.56
	11/27/2023	585.56	6.86	592.42
	12/26/2023	585.56	0.00	585.56
	1/27/2024	585.56	0.00	585.56
	2/5/2024	585.56	1.02	586.58
	3/20/2024	585.56	0.00	585.56
	4/16/2024	585.56	0.68	586.24
	5/20/2024	585.56	0.68	586.24
	6/11/2024	585.56	0.00	585.56
	7/11/2024	585.56	2.43	587.99
	8/12/2024	585.56	1.27	586.83
	9/9/2024	585.56	0.00	585.56
	10/10/2024	585.56	0.00	585.56
	11/11/2024	585.56	0.00	585.56
	12/16/2024	585.56	0.00	585.56