# 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

Date: January 30, 2025

From: Midwest Generation, LLC – Powerton Station

**Re: Midwest Generation, LLC – Powerton Generating Station**
**Account No. W1798010008**
**CCR Surface Impoundment Annual Consolidated Report**

**********

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 Powerton Generating Station:

| Pond ID | CCR Surface Impoundment Description |
|---|---|
| W179801008-01 | Ash Surge Basin |
| W179801008-04 | Bypass Basin |
| W179801008-03 | Metal Cleaning Basin |
| W179801008-05 | Former Ash Basin |

The certification pages from the Hazard Potential Classification Assessments, Structural Stability Assessments, Safety Factor Assessments, and Inflow Design Flood Control System Plans have been provided in Attachment B. A full copy of these assessments can be found on our public website at www.midwestgenerationllc.com. If you have any questions or require additional information regarding this submittal, please contact Jill Buckley at Jill.Buckley@nrg.com.

# 2024 ANNUAL CONSOLIDATED REPORT
# POWERTON GENERATING STATION

## ASH SURGE BASIN – W1798010008-01
## BYPASS BASIN – W1798010008-04
## METAL CLEANING BASIN – W1798010008-03
## FORMER ASH BASIN – W1798010008-05


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 AND SAFETY FACTOR ASSESSMENT CERTIFICATION
- ATTACHMENT B.3 – 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
**Powerton Generating Station**
13082 East Manito Road, Pekin, Illinois

## *1.0 Introduction*

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 Powerton Generating Station, operated by Midwest Generation, LLC (MWG), is a coal-fired power plant located 13082 East Manito Road, Pekin, Tazewell County, Illinois. The facility is a coal-fired electric power generating station occupying approximately 1,710 acres. Units 5 and 6 began operating in 1972 and 1975, respectively. 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 management of CCR that is generated from the combustion of coal. CCR units associated with the station include the Ash Surge Basin, Bypass Basin, Metal Cleaning Basin, and Former Ash Basin.

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 Powerton 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 Powerton 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).

# *2.0 Actions Taken to Control CCR Fugitive Dust*

As detailed in the CCR Fugitive Dust Control Plan (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 Bottom Ash and Slag Distribution System*

Bottom ash and slag are in a liquid mixture within a closed system until the point of discharge at the dewatering bins. A significant portion of the piping system is contained within a building, which eliminates the potential for dust emissions to the outside environment. Also, the bottom ash and slag have sufficient moisture to preclude this material from becoming airborne. An assessment of the exterior distribution system is performed on a quarterly basis to verify the integrity of the system or when a breach in the system is detected. If a leak is noted, the affected area is restored to original conditions and repair of the pipe will be performed as soon as feasible. The ash is then sent off site to a mine reclamation site.

## *2.2 Dewatering Bins*

The bottom ash and slag are drop loaded from the dewatering bins in a wet state and into trucks positioned beneath the bins. The bottom ash and slag have sufficient moisture to preclude this material from becoming airborne during loading. An assessment of the dewatering bin loading operations is performed on a quarterly basis to verify if there has been an equipment malfunction resulting in an accumulation of released material. Should there be a malfunction in the dewatering equipment, repair of any malfunctioning equipment and clean up and transfer of the material to the concrete storage pit is performed as soon as feasible.

## *2.3 Ash Surge Basin, Bypass Basin, and Metal Cleaning Basin*

During normal operations, the Ash Surge Basin and Bypass Basin contain water thereby suppressing any potential fugitive dust emissions. The Ash Surge Basin has been taken out of service. The Metal Cleaning Basin has recently been emptied and cleaned thereby suppressing any potential fugitive dust emissions. Infrequently, the basins need to be dewatered and the sediment removed for proper off-site disposition. While the bottom ash and slag residue is drying, 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 basins 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. Loading activities are also limited during such occasions. If necessary, haul trucks are covered with tarps once they have been loaded.

## *2.4 Former Ash Basin*

The Former Ash Basin was used for the disposal of bottom ash and slag in the past; however, this procedure is no longer occurring. The previously deposited material is completely submerged within the basin with the typical water level at approximately 10-15 feet below grade, thereby, making the bottom ash and slag not readily susceptible to wind erosion and generation of potential fugitive dust emissions.

## *2.5 Concrete Storage Area*

The concrete storage area contains ash and slag and other ash-related materials generated from routine plant maintenance activities. These materials are in a wet state but are allowed to partially dry to facilitate removal. When sufficiently dry, the material is removed off site. The concrete area is 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 and other ash-related materials, the material is kept wet.

## *2.6 Fly Ash Equipment*

Fly ash from the mechanical separators is sent to the silos within an enclosed structure. The fly ash is drop loaded through a telescopic pipe contained within a drop chute into an opening within the tarp covering the truck trailer. This loading mechanism minimizes the potential for fly ash to become airborne during the loading process. The loading of trucks also occurs within a partial enclosure. At the completion of loading but prior to leaving the enclosure, the top, sides and rear of each truck trailer is sprayed with water. During times when temperatures are below freezing, the tarps are broom swept at the truck stand to remove any accumulated fly ash. Accumulated ash is promptly transferred to the concrete storage pad. Occasionally, the fly ash silos are required to be emptied so that fly ash does not harden inside the silo. In order to empty a silo, a vacuum truck is used to pull material out of the silo and into the truck.

This process is covered by the facility's fugitive dust operating program. Under the program, the facility must maintain control measures, including enclosures, covers and dust collection devices. Additionally, the facility is required to conduct weekly inspections of the process to confirm compliance. A record of the inspections is maintained at the facility.

### *2.7 Ash Transport Roadways*

Truck drivers are instructed on the proper procedure for cleaning trucks and a vehicle speed limit is enforced at the facility. Ash material that may not have been adequately removed from the trucks has the 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.

## *3.0 Fugitive CCR Dust Assessments*

Pursuant to §845.500(b)(3), assessments of the potential fugitive dust emission sources identified in the Powerton 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 are recorded on a form similar to the one included in Appendix B of the Powerton 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 are performed as soon as feasible. If the assessment finds that the Plan does not effectively minimize the CCR from becoming airborne, the Plan is 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. Todd Mundorf
Plant Manager
309-477-5212

## *4.0 Record of Citizen Complaints*

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 Powerton 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 then automatically forwards notice of the complaint to the station manager and MWG's corporate environmental department. Following initial evaluation of the complaint, MWG then conducts a thorough investigation to confirm the reported incident/conditions and implement corrective actions as may be warranted.

No complaints regarding CCR fugitive dust emissions at the facility were registered during this Annual Report's period of record covering January through December 2024.

## *5.0 Summary of Corrective Actions Taken*

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 currently 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

MWG
Midwest Generation, LLC

**Midwest Generation, LLC**
Powerton Generating Station
13082 E. Manito Road
Pekin, Illinois 60087

April 4, 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 – Powerton Generating Station**
**Account No. W1798010008**
**Pond IDs: W1798010008-01, W1798010008-03, W1798010008-04, W1798010008-05**
**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 Powerton 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.

Sincerely,

Todd Mundorf
Plant Manager
Powerton Generating Station

MWG
Midwest Generation, LLC

**Midwest Generation, LLC**
Powerton Generating Station
13082 E. Manito Road
Pekin, Illinois 60087

July 9, 2024

Illinois Environmental Protection Agency
Compliance Assurance Section
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62702

**Re: Midwest Generation, LLC – Powerton Generating Station**
**Permit No. 2024-CO-100029**
**Account No. W1798010008**
**Pond IDs: W1798010008-01, W1798010008-03, W1798010008-04, W1798010008-05**
**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 Powerton 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.

Sincerely,

Todd Mundorf
Plant Manager, Powerton Generating Station

**MWG**
**Midwest Generation, LLC**

**Midwest Generation, LLC**
Powerton Generating Station
13082 E. Manito Road
Pekin, Illinois 60087

October 8, 2024

Illinois Environmental Protection Agency
Compliance Assurance Section
Bureau of Water
1021 North Grand Avenue East
Springfield, IL 62702

**Re: Midwest Generation, LLC – Powerton Generating Station**
**Account No. W1798010008**
**Pond IDs: W1798010008-01, W1798010008-03, W1798010008-04, W1798010008-05**
**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 Powerton 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.

Sincerely,

Chris D. Valuta for Todd Mundorf

Todd Mundorf
Plant Manager, Powerton Generating Station

MWG
Midwest Generation, LLC

**Midwest Generation, LLC**
Powerton Generating Station
13082 E. Manito Road
Pekin, Illinois 60087

January 6, 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 – Powerton Generating Station**
**Account No. W1798010008**
**Pond IDs: W1798010008-01, W1798010008-03, W1798010008-04, W1798010008-05**
**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 Powerton 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.

Sincerely,

Todd Mundorf
Plant Manager, Powerton Generating Station

# ATTACHMENT B
# 2024 ANNUAL INSPECTION REPORT

**ANNUAL INSPECTION REPORT**
**ASH SURGE BASIN AND ASH BYPASS BASIN**
**POWERTON 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 of the Code of Federal Regulations (40 CFR) Section 257.83(b) for the Ash Surge Basin (ASB) and Ash Bypass Basin (ABB) at Powerton Station (Station) in Pekin, Illinois. The purpose of this project is to perform the annual inspection of the ASB and ABB 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 qualified station personnel 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 ASB and ABB 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: Inspection for actual or potential structural weakness of the CCR surface impoundment, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR surface impoundment and appurtenant structures.

- Other Changes: Inspection including change(s) which may have affected the stability or operation of the impounding structure since the previous annual inspection.

The ASB is an active CCR surface impoundment. The ABB, at the time of this report, was shut down for a permitted retrofit of the ash pond. The basins are approximately 7.5 acres and 1 acre in size, respectively. On October 10, 2024, CEC inspected both the ASB and ABB and our observations showed no signs of distress that would suggest the stability or operation of the impounding structure is compromised.

## 1.0 CHANGES IN GEOMETRY

At the time of inspection, the ASB geometry was observed to be unchanged since the October 2023 inspection. The ABB was undergoing a permitted retrofit in which the final geometry was the same with minor modifications to the surface grades on the basin floor and side slopes.

## 2.0 INSTRUMENTATION

Instrumentation associated with ASB and ABB include water level gauges in each basin and a water level monitoring device in the outlet structure for the ASB. At the time of inspection, the water level gauge in the ABB had been temporarily removed for the retrofit project.

Our interview of Station personnel and review of weekly and monthly inspection reports indicates that the water level monitor is operating properly. The monthly inspections report the pumps, polymer system, and free board measuring device in the ASB are in good condition. Instrumentation associated with the other hydraulic structures, impoundment embankments, and/or slope performance were not observed.

## 3.0 CAPACITY AND IMPOUNDED VOLUME

Capacity and impounded volume of the ASB and ABB and estimated depth of impounded water and CCR are represented in Table 1 and 2, attached. Volumes and depths were determined through direction by station personnel and by reviewing inspection reports and construction drawings.

## 4.0 STRUCTURAL/OPERATIONAL OBSERVATIONS

Both the ASB and ABB were inspected for signs of distress that would have the potential to disrupt operation and safety of each basin. Prior to performing the inspection, the previous annual inspection reports were reviewed, which did not identify conditions that indicate an actual or potential structural weakness. Weekly and monthly inspection reports were also reviewed and did not indicate an actual or potential structural weakness.

## 5.0 OTHER CHANGES

Both the ASB and ABB were inspected for signs of other changes or distress that would have the potential to disrupt operation and safety of each basin. Our inspection showed no distresses that would affect the operation and/or stability of the ASB and ABB.

## 6.0 LIMITATIONS AND CERTIFICATION

This CCR 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 14, 2024

Illinois Professional Engineer No.: 062-051317

Expiration Date: November 30, 2025

**Table 1: 2024 Inspection Summary - Ash Surge Basin**

| Category | Regulation Reference | Evaluation | Recommended Action |
|---|---|---|---|
| **Change in Geometry** | §845.450(b)(2)(A) §257.83(b)(2)(i) | None | None |
| **Instrumentation** | §845.450(b)(2)(B) §257.83(b)(2)(ii) | None | None |
| **Water Depth** | §845.450(b)(2)(C) §257.83(b)(2)(iii) | 2.5 feet, minimum 2.5 feet, at inspection 10.6 feet, maximum | None |
| **CCR Depth** | §845.450(b)(2)(C) §257.83(b)(2)(iii) | 2.4 feet | None |
| **Estimated Storage Capacity** | §845.450(b)(2)(D) §257.83(b)(2)(iv) | 85 Acre Feet | None |
| **Impounded Water Volume** | §845.450(b)(2)(E) §257.83(b)(2)(v) | 11 Acre Feet | None |
| **Impounded CCR Volume** | §845.450(b)(2)(E) §257.83(b)(2)(v) | 14 Acre Feet | None |
| **Structural/Operational Observations** | §845.450(b)(2)(F) §257.83(b)(2)(vi) | None | None |
| **Other Changes** | §845.450(b)(2)(G) §257.83(b)(2)(vii) | None | None |

**Table 2: 2024 Inspection Summary - Ash Bypass Basin**

| Category | Regulation Reference | Evaluation | Recommended Action |
|---|---|---|---|
| **Change in Geometry** | §845.450(b)(2)(A) §257.83(b)(2)(i) | None | None |
| **Instrumentation** | §845.450(b)(2)(B) §257.83(b)(2)(ii) | None | None |
| **Water Depth** | §845.450(b)(2)(C) §257.83(b)(2)(iii) | 0.0 feet, minimum 0.0 feet, at inspection 2.4 feet, maximum | None |
| **CCR Depth** | §845.450(b)(2)(C) §257.83(b)(2)(iii) | None | None |
| **Estimated Storage Capacity** | §845.450(b)(2)(D) §257.83(b)(2)(iv) | 2.4 Acre Feet | None |
| **Impounded Water Volume** | §845.450(b)(2)(E) §257.83(b)(2)(v) | None | None |
| **Impounded CCR Volume** | §845.450(b)(2)(E) §257.83(b)(2)(v) | None | None |
| **Structural/Operational Observations** | §845.450(b)(2)(F) §257.83(b)(2)(vi) | None | None |
| **Other Changes** | §845.450(b)(2)(G) §257.83(b)(2)(vii) | None | None |

**ANNUAL INSPECTION REPORT**
**POWERTON STATION - FORMER ASH BASIN**
**JULY 2024**

This annual inspection report has been prepared pursuant to both Section 845.540(b) of the Illinois Pollution Control Board's Standards for the Disposal of Coal Combustion Residuals in CCR Surface Impoundments (Illinois CCR Rule) and Part 257.83(b) of the United States Environmental Protection Agency's Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments (Federal CCR Rule) for Midwest Generation, LLC (MWG) at Powerton Station (Station) in Pekin, Illinois. The purpose of this project is to perform the annual inspection of the Former Ash Basin (FAB) by a licensed professional engineer to ensure that the design, construction, operation, and maintenance of the coal combustion residuals (CCR) surface impoundment is consistent with recognized and generally accepted good engineering standards. The inspection includes:

(1) 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, previous structural stability assessments, the results of inspections by a qualified person, and results of previous annual inspections);
(2) Visual inspection of the CCR surface impoundment to identify signs of distress or malfunction of the CCR surface impoundment and appurtenant structures;
(3) 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; and
(4) Review of annual hazard potential classification certification, annual structural stability assessment certification, annual safety factor assessment certification, and inflow design flood control system plan certification.

Civil & Environmental Consultants, Inc. (CEC) completed the following scope of services in preparing this annual inspection report:

- Reviewed weekly and monthly inspection reports by a qualified person employed by MWG, and the previous annual inspection report.
- Performed the annual inspection in accordance with the requirements of Section 845.540(b) and Part 257.83(b) including observations pertaining to the following:
    - Observations of changes in the FAB geometry since the previous annual inspection were documented;

- Location and type of existing instrumentation was inspected and the maximum recorded readings of each instrument since the previous annual inspection were documented from the records provided by MWG;
- Approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection;
- Storage capacity of the impounding structure at the time of the inspection;
- Approximate volume of the impounded water and CCR at the time of the inspection;
- Any appearances of an actual or potential structural weakness of the CCR surface impoundment, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR surface impoundment and appurtenant structures; and
- Any other changes that may have affected the stability or operation of the impounding structure since the previous annual inspection.

The FAB is an inactive surface impoundment that is scheduled for closure. Approximately 30 acres in size, the FAB does not receive bottom ash or ash slag. The FAB is sectioned into a North Pond and South Pond and the geometry has remained unchanged since the previous inspection. On July 10, 2024, CEC inspected the North and South FAB. Our observations showed no signs of distress that would suggest the stability or operation of the impounding structure is compromised.

## 1.0 CHANGES IN GEOMETRY

At the time of inspection, the FAB geometry was observed to be unchanged since the July 2023 inspection.

## 2.0 INSTRUMENTATION

Instrumentation associated with the hydraulic structures, impoundment embankments, and/or slope performance do not exist.

## 3.0 CAPACITY AND IMPOUNDED VOLUME

Capacity and impounded volume of the FAB and estimated depth of impounded water and CCR are represented in Table 1, attached. The volume of CCR remains unchanged from the previous investigations. FAB water volume fluctuates with the groundwater table and the surface water elevation of the nearby Illinois River. Volumes and depths were determined by reviewing inspection reports and construction drawings.

## 4.0 STRUCTURAL/OPERATIONAL OBSERVATIONS

CEC inspected the FAB for signs of distress that would have the potential to disrupt operation and safety. Both the North and South Ponds are partially incised minimizing the potential of a release of CCR. CCR is primarily located within the incised area of both ponds. Our observations showed minor signs of distress however, none of which currently suggest the safety, stability, or operation of the impounding structure is compromised.

Items noted during the inspection included minor erosion, animal borrows, and vegetation, again, none of which suggest the safety, stability, or operation of the impounding structure is compromised. Review of weekly inspection records show the Station has maintained the berm and access road by removing fallen trees, filling potholes and erosion areas. Based on the extent of these findings, there are no corrective actions or remedy required.

## 5.0 OTHER CHANGES

CEC inspected the basin for signs of other changes or distress that would have the potential to disrupt operation and safety of the basin. Our inspection showed no distresses that would affect the operation and/or stability of the FAB.

## 6.0 LIMITATIONS AND CERTIFICATION

This annual inspection report was prepared to meet the requirements of both Section 845.540(b) and Part 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: July 11, 2024

Illinois Professional Engineer No.: 062-051317

Expiration Date: November 30, 2025

**Table 1: Inspection Summary - Former Ash Basin**

| Category | Regulation Reference | Evaluation | Recommended Action |
|---|---|---|---|
| **Change in Geometry** | 845.450(b)(2)(A)<br>257.83(b)(2)(i) | None | None |
| **Instrumentation** | 845.450(b)(2)(B)<br>257.83(b)(2)(ii) | None | None |
| **Water Depth** | 845.450(b)(2)(C)<br>257.83(b)(2)(iii) | Below Gauge, minimum<br>0.0 feet, at inspection<br>7.6 feet, maximum | None |
| **CCR Depth** | 845.450(b)(2)(C)<br>257.83(b)(2)(iii) | 10 feet | None |
| **Estimated Storage Capacity** | 845.450(b)(2)(D)<br>257.83(b)(2)(iv) | 500,000 cubic yards | None |
| **Impounded Water Volume** | 845.450(b)(2)(E)<br>257.83(b)(2)(v) | 10 acre-feet | None |
| **Impounded CCR Volume** | 845.450(b)(2)(E)<br>257.83(b)(2)(v) | 310 acre-feet | None |
| **Structural/Operational Observations** | 845.450(b)(2)(F)<br>257.83(b)(2)(vi) | Minor erosion and vegetative cover | Continue to monitor |
| **Other Changes** | 845.450(b)(2)(G)<br>257.83(b)(2)(vii) | None | None |

**ANNUAL COAL COMBUSTION RESIDUALS SURFACE IMPOUNDMENT INSPECTION REPORT**
**POWERTON STATION - METAL CLEANING BASIN**
**JUNE 2024**

This annual coal combustion residuals (CCR) surface impoundment inspection report has been prepared pursuant to Section 845.540(b) of Title 35 Subtitle G, Chapter I, Subchapter j - Coal Combustion Waste Surface Impoundments for Midwest Generation, LLC (MWG) at Powerton Station (Station) in Pekin, Illinois. The purpose of this project is to perform the annual inspection of the Metal Cleaning Basin (MCB) by a licensed professional engineer to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. The inspection includes:

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) Visual inspection of the CCR surface impoundment to identify signs of distress or malfunction of the CCR surface impoundment and appurtenant structures;
C) 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, (Section 845.440);
E) The annual structural stability assessment certification, (Section 845.450);
F) The annual safety factor assessment certification, (Section 845.460); and
G) The inflow design flood control system plan certification (Section 845.510(c)).

## 1.0 SITE DESCRIPTION

The MCB (IEPA ID Number W1798010008-03) is located at Powerton Station in Pekin, Illinois situated northeast of the main power building, south of the Wastewater Building and between the Ash Surge Basin and former Cooling Water Intake Canal (see Figure 1). Measuring 450 feet long and 225 feet wide, approximately 2.3 acres in size, the MCB is lined with a 60 mil high-density polyethylene (HDPE) liner. Gravel access roads are located along the north, east, and west sides.

The MCB was constructed in the late 1970s or early 1980s, and has not undergone significant changes in the geometry. The original operation was designed to receive bottom ash and, twice a year, boiler wash via sluicing with wastewater treated in the wastewater treatment plant. Operation of the MCB has changed to also receive bottom ash and fly ash from street sweeping and silo

maintenance by end dumping. Wastewater is periodically pumped from the MCB, treated to remove elevated metal concentrations, and total suspended solids and discharged into the Ash Surge Basin. The MCB is inspected weekly by a qualified person including checking the water level in the basin.

## 2.0 ANNUAL INSPECTION

Civil & Environmental Consultants, Inc. (CEC) inspected the MCB on May 15, 2024. The following tasks were completed in preparing this annual inspection report:

- Reviewed the weekly and monthly inspection reports completed by a qualified person, annual hazard potential classification certification, annual structural stability assessment certification, annual safety factor assessment certification, the inflow design flood control system plan certification, and previous inspection reports prepared by a qualified professional engineer.
- Performed the annual inspection in accordance with the requirements of Section 845.540(b) including observations pertaining to the following:
    - Changes in Geometry - 845.540(b)(2)(A): changes in geometry of the impounding structure since the previous annual inspection;
    - Instrumentation - 845.540(b)(2)(B): location and type of existing instrumentation and the maximum recorded readings of each instrument since the previous annual inspection;
    - Capacity and Impounded Volume - 845.540(b)(2)(C): approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection;
    - Storage Capacity - 845.540(b)(2)(D): storage capacity of the impounding structure at the time of the inspection;
    - Volume of the Impounded Water and CCR - 845.540(b)(2)(E): estimate the approximate volume of the impounded water and CCR at the time of the inspection.
    - Structural/Operational Observations - 845.540(b)(2)(F): appearances of an actual or potential structural weakness of the CCR surface impoundment, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR surface impoundment and appurtenant structures; and
    - Other Changes 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.

Results of our 2024 surface impoundment inspection report are provided in the following section.

2.1 Changes in Geometry - 845.540(b)(2)(A)

At the time of inspection, the MCB geometry was observed to be unchanged from previous inspection reports and assessments.

2.2 Instrumentation - 845.540(b)(2)(B)

Instrumentation associated with the hydraulic structures, impoundment embankments, and/or slope performance were not observed.

2.3 Capacity and Impounded Volume - 845.540(b)(2)(C-E)

The approximate minimum, maximum, and present depth and elevation of the impounded water and CCR since the previous annual inspection are represented in Table 1, attached. Wastewater is periodically pumped from the MCB, treated, and discharged into the Ash Surge Basin. The MCB is inspected weekly by the qualified person including checking the water level in the basin.

2.4 Structural/Operational Observations - 845.540(B)(2)(F)

CEC inspected the basin for signs of distress that would have the potential to disrupt operation and safety of the MCB. The MCB is partially incised minimizing the potential of a release of CCR. Our observations showed no signs of distress which currently suggest the safety, stability, or operation of the impounding structure is compromised.

2.5 Other Changes - 845.540(B)(2)(G)

CEC inspected the MCB for signs of other changes that may have affected the stability or operation of the impounding structure since the previous annual inspection. Our inspection showed no distresses that would affect the operation and/or stability.

## 3.0 CONCLUSIONS

Our assessments and inspection of the MCB showed no signs of distress that would suggest the stability or operation of the impounding structure is compromised.

## 4.0 LIMITATIONS AND CERTIFICATION

This CCR surface impoundment inspection was prepared to meet the requirements of Section 845.540(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: June 21, 2024

Illinois Professional Engineer No.: 062-051317

Expiration Date: November 30, 2025

Enclosure: Table 1 - Inspection Summary - Metal Cleaning Basin

**Table 1: Inspection Summary - Metal Cleaning Basin**

| Category | Regulation Reference | Evaluation | Recommended Action |
|---|---|---|---|
| **Change in Geometry** | 845.540(b)(2) | None | None |
| **Instrumentation** | 845.540(b)(2) | Water Level Guage - OK | None |
| **Water Depth** | 845.540(b)(2) | 0.0 feet, minimum<br>5.9 feet, at inspection<br>5.9 feet, maximum | None |
| **CCR Depth** | 845.540(b)(2) | Less than 1 foot | None |
| **Estimated Storage Capacity** | 845.540(b)(2) | 17 Acre Feet | None |
| **Impounded Water Volume** | 845.540(b)(2) | 8.8 Acre Feet | None |
| **Impounded CCR Volume** | 845.540(b)(2) | 1.0 Acre Feet | None |
| **Structural/Operational Observations** | 845.540(b)(2) | None | None |
| **Other Changes** | 845.540(b)(2) | None | None |

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

stable under design operating conditions. Moreover, no visual signs of distress that could be indicative of dike instability were observed during S&L's August 22, 2024, and September 25, 2024, condition assessment performed in support of the basins' 2024 annual structural stability assessment under 35 Ill. Adm. Code 845.450 (Ref. 5). Finally, as noted in both assessments, MWG is closing the Former Ash Basin given the lack of necessary information available to perform these assessments due to the construction age of the basin.

## 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 11:29:20-05'00'

## 3.0 HAZARD POTENTIAL CLASSIFICATION ASSESSMENT

Based on our assessment of the MCB and surrounding site features, the MCB remains classified as a Class 2 CCR surface impoundment. Potential downstream inundation areas that could be impacted by a failure or mis-operation the MCB have no buildings and are only occasionally accessed for mowing and inspection purposes that result in no probable loss of human life. Potential economic loss, environmental damage, disruption of lifeline facilities, and impact other concerns are allowed under this classification.

## 4.0 LIMITATIONS AND CERTIFICATION

This Annual Hazard Potential Classification Assessment Report has been prepared pursuant to the CCR rule codified in Title 35 of the Illinois Administrative Code Section 845.440(a) 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: June 21, 2024

Illinois Professional Engineer No.: 062-051317

Expiration Date: November 30, 2025

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

### 3.2.1 Slope Stability Methodology

The assessment included review of the initial safety factor assessment. The purpose of reviewing the initial 2021 assessment was to confirm the methodology, assumptions and inputs used to complete the safety factor assessment remain relevant. The methodology used for the slope stability analysis reported in the initial safety factor assessment is consistent with Section 845.460 and, considering results of the 2024 CCR surface impoundment inspection showed no modification to either the configuration or condition of the MCB, nor were structural deficiencies observed, the assumptions and inputs used to complete each of the slope stability cases analyzed remain relevant.

### 3.2.2 Conclusion - 2024 Safety Factor Assessment

The initial safety factor assessment and annual inspections were reviewed and confirm the factors of safety for the 2024 safety factor assessment are valid. We have concluded that the initial safety factor assessment from June 2021 is valid and that the calculated factors of safety for the MCB achieve the minimum safety factors specified for the critical cross section of the embankment

## 4.0 LIMITATIONS AND CERTIFICATION

The annual structural stability and factor of safety assessment was prepared to meet the requirements of Parts 845.450 and 845.460 of Title 35 Subtitle G, Chapter I, Subchapter j - Coal Combustion Waste Surface Impoundments, 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: June 21, 2024

Illinois Professional Engineer No.: 062-051317

Expiration Date: November 30, 2025

## 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 11:29:47-05'00'

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

### 6.2 FORMER ASH BASIN

The initial federal safety factor assessment completed for the Former Ash Basin in 2018 (Ref. 4) concluded that an engineering analysis to calculate the safety factors for the basin could not be performed given the lack of necessary information due to the construction age of the Former Ash Basin. Since the minimum safety factors of the Former Ash Basin could not be demonstrated, MWG is closing the Former Ash Basin in accordance with Subpart G of the Illinois CCR Rule and 40 CFR 257.102. MWG plans to close the Former Ash Basin upon receipt of a closure construction permit from the Illinois EPA in accordance with Subpart B of the Illinois CCR Rule. A construction permit application for the closure work was submitted to the Illinois EPA on October 26, 2022.

## 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 11:29:36-05'00'

### 3.2.1 Slope Stability Methodology

The assessment included review of the initial safety factor assessment. The purpose of reviewing the initial 2021 assessment was to confirm the methodology, assumptions and inputs used to complete the safety factor assessment remain relevant. The methodology used for the slope stability analysis reported in the initial safety factor assessment is consistent with Section 845.460 and, considering results of the 2024 CCR surface impoundment inspection showed no modification to either the configuration or condition of the MCB, nor were structural deficiencies observed, the assumptions and inputs used to complete each of the slope stability cases analyzed remain relevant.

### 3.2.2 Conclusion - 2024 Safety Factor Assessment

The initial safety factor assessment and annual inspections were reviewed and confirm the factors of safety for the 2024 safety factor assessment are valid. We have concluded that the initial safety factor assessment from June 2021 is valid and that the calculated factors of safety for the MCB achieve the minimum safety factors specified for the critical cross section of the embankment

## 4.0 LIMITATIONS AND CERTIFICATION

The annual structural stability and factor of safety assessment was prepared to meet the requirements of Parts 845.450 and 845.460 of Title 35 Subtitle G, Chapter I, Subchapter j - Coal Combustion Waste Surface Impoundments, 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: June 21, 2024

Illinois Professional Engineer No.: 062-051317

Expiration Date: November 30, 2025

# ATTACHMENT B.4
# 2024 ANNUAL INFLOW DESIGN FLOOD CONTROL SYSTEM PLAN CERTIFICATION

## 6.0 CONCLUSIONS

Based on the results in Table 5-1, the Ash Surge Basin, Bypass Basin, and Former Ash Basin have adequate hydraulic capacities to retain the 1,000-year flood event without water overtopping the basins' dikes. In addition, the Ash Surge Basin has adequate hydraulic capacity to retain the 1,000-year flood event without water overflowing into its emergency spillway structure. Therefore, the Ash Surge Basin, Bypass Basin, and Former Ash Basin 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 J. Dehlin Date: October 13, 2024

Seal:


Digitally signed by Thomas Dehlin
Date: 2024.10.13 11:29:58-05'00'

**Table 5-1 – Summary of Hydrologic & Hydraulic Assessment Results for the Metal Cleaning Basin**

| CCR Surface Impoundment | Illinois Hazard Potential Classification | Inflow Design Flood | Maximum Surface Water Elevation | Basin Crest Elevation |
|---|---|---|---|---|
| Metal Cleaning Basin | Class 2 | 1,000 Year | 463.15 feet | 467.00 feet |

## 6.0 CONCLUSIONS

Based on the results in Table 5-1, the Metal Cleaning Basin has adequate hydraulic capacity to retain the 1,000-year flood event without water overtopping the basin's dikes. Therefore, the Metal Cleaning Basin is 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 J. Dehlin Date: October 13, 2024

Seal:


Digitally signed by Thomas Dehlin
Date: 2024.10.13 11:30:11-05'00'

# ATTACHMENT C
# 2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

K P R G

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

# ILLINOIS CCR COMPLIANCE
# POWERTON ASH BASINS
# ANNUAL GROUNDWATER MONITORING and CORRECTIVE ACTION REPORT – 2024

**Midwest Generation, LLC**
**Powerton Station**
**13082 E. Manito Road**
**Pekin, Illinois 61554**

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

January 31, 2025

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## 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), along with subsequent amendments and the issued facility CCR Operating Permit 2024-CO-100029, have been completed for the ash pond monitoring wells located at the Midwest Generation, LLC (Midwest Generation) Powerton Generating Station. The noted Operating Permit was issued on July 3, 2024 and covers the operating and groundwater monitoring requirements for all four CCR Surface Impoundments. Specifically, these are:

- Ash Surge Basin (ASB) – Pond ID W1798010008-01
- Metal Cleaning Basin (MCB) – Pond ID W1798010008-03
- Ash By-pass Basin (ABB) – Pond ID W1798010008-04
- Former Ash Basin (FAB) – Pond ID W1798010008-05

In accordance with Special Condition #12, a new background well, MW-16, has been identified for the subsequent development of new statistical background values to be calculated in accordance with the procedures defined in Revised Attachment 9-5, Illinois State CCR Rule Compliance – Revised Statistical Approach for Groundwater Data Evaluation dated September 23, 2024. This revision was submitted to Illinois Environmental Protection Agency (IEPA) in fulfillment of requirements under Special Condition #16 of the Operating Permit. A minimum of eight rounds of background sampling will be completed at this well location in accordance with Special Condition #17(c) and the statistical calculations will be submitted to IEPA within 640 days of the effective date of the permit in accordance with Special Condition #18 of the Operating Permit. To date, three rounds of sampling have been completed at this new background well location.

In accordance with Special Condition #13, the following downgradient groundwater monitoring wells are being sampled:

- Silty Clay/Silt Unit – MW-06, MW-14, MW-22 and MW-18A.
- Sand and Gravel Unit – MW-01, MW-02, MW-03, MW-04, MW-05, MW-07, MW-10 and MW-21D.

It is noted that upgradient well MW-16 has been identified by IEPA in the Operating Permit to represent background water quality for both the Silty Clay/Silt Unit and the Sand and Gravel Unit. The locations of these wells are included on Figure 1.

All CCR groundwater monitoring data available to date for these wells, which in some cases includes data from previous groundwater monitoring under the Federal CCR Rule, are provided in Tables 1 and 2 for the Silty Clay/Silt Unit and the Sand and Gravel Unit, respectively. The tables include the Groundwater Protection Standards (GWPSs) established for these parameters under Special Conditions #21 and #22 of the Operating Permit. It is noted that these GWPSs may be changed based on the results of new background well sampling (MW-16) as discussed above, and

as allowed for in Special Conditions #21 and #22. Tables 3 and 4 summarize the turbidity data from these wells for the Silty Clay/Silt Unit and the Sand and Gravel Unit, respectively.

This overview of the 2024 groundwater monitoring period relative to the wells identified in the Operating Permit as previously specified above, 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) – As discussed above, the Operating Permit has identified a new background monitoring well, MW-16, to be sampled for the purposes of establishing statistical background in accordance with the Revised Attachment 9-5, Illinois State CCR Rule Compliance – Revised Statistical Approach for Groundwater Data Evaluation dated September 23, 2024. Because this well was not sampled in the past for CCR monitoring purposes, there is insufficient data available to establish the statistical background. Therefore, identifying whether there has been a statistically significant increase (SSI) in any parameter in downgradient monitoring wells over the established background cannot be completed at this time. Once a minimum of eight rounds of data from this well are collected, the appropriate statistical evaluations will be completed and submitted to IEPA in accordance with Special Condition #18.

- Section 845.610(e)(4)(C and D) – Initial GWPSs have been established by the Operating Permit under Special Conditions #21 and #22, for the Silty Clay/Silt Unit and the Sand and Gravel Unit, respectively. The following constituents and associated wells with verified detections above the GWPSs during 2024 are:

  Silty Clay/Silt Unit
  - MW-14: sulfate, total dissolved solids (TDS), molybdenum and thallium (3rd and 4th quarters)
  - MW-18A: TDS (3rd and 4th quarters)

  Sand and Gravel Unit
  - MW-07: arsenic and cobalt (3rd and 4th quarters)

- Section 845.610(e)(4)(E) – Based on the verified detections above permit established GWPSs, an assessment of corrective measures will be initiated in accordance with Section 845.660(a)(1). The nature and extent of impacts will also be evaluated in accordance with Section 845.650(d)(1).

- Section 845.610(e)(4)(F through H) – The assessment of corrective measures has not yet been completed; therefore, items under these requirements are not yet applicable.

## 2.0 ANNUAL STATUS SUMMARY

The groundwater monitoring network was defined in Section 1.0 above and the locations of these wells are included on Figure 1. 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 through 4. Tables 1 and 2 include GWPSs established under Special Conditions #21 and #22 of the Operating Permit.

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))

The following key actions have been completed during the 2024 reporting period:

- Quarterly sampling of all parameters specified in Section 845.600(a) plus calcium and turbidity was completed and the associated 60-day data summary submittals were submitted and placed in the facilities operating record in accordance with Section 845.610(b)(3)(D). As of July 3, 2024, the groundwater monitoring network has been modified as defined in Section 1.0 above in accordance with the Operating Permit.

- Water levels were recorded monthly for the specified monitoring wells in Special Condition #14 of the Operating Permit. In addition, in accordance with requirements under this Special Condition, surface water elevations were recorded for the Illinois River as measured at the staff gauge at the USGS Kingston Mines station and at a staff gauge installed onsite in June 2024 within Lost Creek. Pond water levels were also concurrently recorded.

- In fulfillment of Special Condition #16 of the Operating Permit, a Revised Attachment 9-5, Illinois State CCR Rule Compliance – Revised Statistical Approach for Groundwater Data Evaluation dated September 23, 2024 was submitted to IEPA.

- In partial fulfillment of Special Condition #19 of the Operating Permit, berm material samples from 10 locations surrounding the regulated units were collected at 10-foot intervals for chemical analysis of CCR parameters. The results of that sampling will be submitted along with the required geotechnical analysis of the lateral extent of materials supporting the basins. The submittal date for this requirement specified in the Operating Permit was temporarily stayed by the Illinois Pollution Control Board (IPCB) on December 19, 2024 pending requested clarifications by the IEPA to certain permit conditions.

- In fulfillment of Special Conditions #11, #13 and #14, three new monitoring wells were installed to be included within the groundwater monitoring network. Specifically, these wells were:
    - Silty Clay/Silt Unit – wells MW-22 and MW-18A (well MW-18A replaces well MW-23 identified in the Operating Permit as that well location did not encounter a saturated Silty Clay/Silt Unit. Well MW-18A was installed adjacent to existing well MW-18 with its screen is focused within only the Silty Clay/Silt Unit).

- Sand and Gravel Unit – well MW-21D.

In addition to these wells, two piezometers, P-1 and P-2, were installed with screens placed strictly within the fill materials at these locations. A staff gauge was also installed onsite within Lost Creek. Documentation of these installations is provided in Attachment 1 and the associated survey data is provided in Attachment 2.

- The ABB underwent retrofitting construction in accordance with the IEPA issued Construction Permit No. 2024-CC-100030 dated July 3, 2024. The retrofit work has been completed and certified by the design engineer on October 18, 2024. Construction documentation has been provided to IEPA and can be found on the facility's CCR website.

Key activities for the upcoming year include:

- Conduct an assessment of corrective measures in accordance with Section 845.660(a)(1) and a nature and extent of impacts evaluation in accordance with Section 845.650(d)(1).

- Continued quarterly groundwater monitoring/reporting and surface water elevation monitoring in accordance with Special Conditions #12, #13, #14, #21 and #22 of the Operating Permit.

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$^{th}$ quarter 2024) is provided on Figure 2.

As previously discussed, in fulfillment of Special Conditions #11, #13 and #14, three new monitoring wells were installed to be included within the groundwater monitoring network. Wells MW-22 and MW-18A were installed within the Silty Clay/Silt Unit and well MW-21D was installed with the Sand and Gravel Unit. Well MW-18A replaces well MW-23 identified in the Operating Permit as that well location did not have a saturated Silty Clay/Silt Unit. Well MW-18A was installed adjacent to existing well MW-18 with its screen is focused within only the Silty Clay/Silt Unit). In addition to these wells, two piezometers, P-1 and P-2, were installed with screens placed strictly within the fill materials at these locations. A staff gauge was also installed onsite within Lost Creek. Documentation of these installations is provided in Attachment 1 and the associated survey data is provided in Attachment 2.

Monthly water levels were recorded from the specified CCR monitoring wells. The water levels are summarized in Table 5. This table includes Illinois River water levels from the U.S. Geological Survey (USGS) Kingston Mine gauge, which is the nearest river gauging station to the site, for each well water level measuring event. In addition, water level from piezometers P-1 and P-2 which are screened in fill material are also included on the table.

A review of water levels associated with the 2024 quarterly groundwater sampling events (February, June, September and November), shows that river water levels were slightly higher in elevation than those measured at downgradient monitoring well MW-04 (June and September) and wells MW-03/MW-04 (November) but the water elevations at these well locations are also lower than those from wells further to the south indicating they may be within a mixing zone. These are the two wells closest to the river. Based on this observation, it is noted that the water chemistry data from those wells, for those sampling events, may be skewed either lower or higher depending on the river water quality that may have mixed with groundwater in the vicinity of those wells.

Potentiometric surface maps for each round of water levels collected in 2024 are provided in Attachment 3. It is noted that CCR monitoring wells MW-06, MW-08, MW-12, MW-14, MW-15, MW-17, MW-18A and MW-22 are screened within a shallow, localized, saturated silty clay/silt unit which is underlain by a more extensive sand unit. The remaining monitoring wells have deeper screens, within the more extensive sand and gravel unit with the exception of MW-18 which appears to be in a transitional zone between the two units. The water levels from wells screened in the silty clay/silt unit and the water levels from monitoring wells screened within the sand and gravel unit were evaluated separately and used to generate potentiometric surface maps for each unit. Groundwater flow beneath the ABB, ASB and MCB within the silty clay/silt unit has historically been illustrated with a westerly flow direction as shown in the groundwater flow maps for January through February 2024 (see Attachment 3). However, with the installation of new silty clay/silt unit wells on the east side of the ASB in April 2024 (MW-23) and August 2024 (MW-18A), there is an indication of divergent flow within this unit which is still consistent with stratigraphic interpretations of the localized, discontinuous silty clay/silt unit beneath this portion of the site. Flow continues to the west towards the former intake channel, however, there is also a component of flow to the east reflecting the slope/trace of the silty clay/silt unit to the east, northeast and southeast. The divergent flow, as noted above, is a function of stratigraphy as the water levels are consistently below the base elevation of the ASB liner system which based on construction drawings is 452 feet above mean sea level (amsl).

Groundwater flow within the sand and gravel unit is generally in a northerly direction with some divergent flow to the northeast and/or northwest. Some higher than normal water levels were recorded on the northern portion of the site relative to the central part of the site during the April water level measurements in the sand and gravel unit. This may be reflective of ongoing system re-equilibration from high Illinois River water levels which crested approximately 24 hours prior to the date of measurement.

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 6. A summary of the number of groundwater samples collected for analysis, since the issuance date of the Operating Permit, for each CCR monitoring well along with sample dates is provided in Table 7. It is noted that the summary data tables also include two rounds of quarterly

groundwater sampling (February and June) that was completed in 2024 prior to issuance of the Operating Permit.

As previously discussed, the Operating Permit has identified a new background monitoring well, MW-16, to be sampled for the purposes of establishing a new statistical background in accordance with the Revised Attachment 9-5, Illinois State CCR Rule Compliance – Revised Statistical Approach for Groundwater Data Evaluation dated September 23, 2024. Because this well was not sampled in the past for CCR monitoring purposes, there is insufficient data available to establish the statistical background. Therefore, identifying whether there has been a statistically significant increase (SSI) in any parameter in downgradient monitoring wells over the established background cannot be completed at this time. Once a minimum of eight rounds of data from this well are collected, the appropriate statistical evaluations will be completed and submitted to IEPA in accordance with Special Condition #18. Wells with detections above the initial GWPSs established in the Operating Permit during the 2024 groundwater monitoring were identified in Section 1.0 above.

# TABLES

Table 1. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Silty Clay/Silt Unit.

| 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 | Selenium | Thallium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GWPS | | 4.7 | NSP | 200.0 | 4.0 | 6.5-9.0 | 400.0 | 1200.0 | 0.006 | 0.010 | 2.0 | 0.0040 | 0.005 | 0.1 | 0.006 | 0.008 | 0.04 | 0.002 | 0.10 | 5.0 | 0.05 | 0.002 |
| MW-16 upgradient | 6/18/2024 | 0.19 | 110 | 21 | < 0.10 | 6.91 | 39 | 510 | < 0.0030 | < 0.0010 | 0.040 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^1+ < 0.010 | < 0.00020 | < 0.0050 | < 0.639 | < 0.0025 | < 0.0020 |
| | 9/11/2024 | 0.18 | 110 | 22 | < 0.10 | 7.05 | 25 | 500 | < 0.0030 | < 0.0010 | 0.039 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.754 | < 0.0025 | < 0.0020 |
| | 11/20/2024 | 0.16 | 120 | 28 | < 0.10 | 7.15 | 25 | 610 | < 0.0030 | < 0.0010 | 0.048 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | 0.755 | < 0.0025 | < 0.0020 |
| MW-06 downgradient | 6/18/2024 | 0.39 | 94 | 140 | 0.49 | 7.64 | 220 | 820 | < 0.0030 | 0.0021 | 0.059 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^1+ < 0.010 | < 0.00020 | 0.010 | < 0.722 | < 0.0025 | < 0.0020 |
| | 9/10/2024 | 0.40 | 96 | 130 | 0.48 | 7.64 | 270 | 880 | < 0.0030 | 0.0032 | 0.075 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | 0.010 | < 0.00020 | 0.011 | 1.94 | < 0.0025 | < 0.0020 |
| | 11/19/2024 | 0.27 | 96 | 150 | 0.43 | 7.65 | 290 | 950 | < 0.0030 | 0.0028 | 0.071 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | 0.011 | < 0.19 | < 0.0025 | < 0.0020 |
| MW-14 down-gradient | 4/8/2021 | 2.1 | 200 | 98 | 1.1 | 7.33 | 630 | 1600 | < 0.003 | 0.0028 | 0.036 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.028 | < 0.0002 | 0.035 | < 0.605 | 0.029 | 0.0022 |
| | 5/12/2021 | 2.6 | 210 | 100 | 1.1 | 7.13 | 640 | 1700 | < 0.003 | 0.0047 | 0.038 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.028 | < 0.0002 | 0.034 | < 0.43 | 0.0039 | 0.0028 |
| | 6/3/2021 | 2.1 | 200 | 26 | 1.0 | 6.79 | 590 | 1600 | < 0.003 | 0.0025 | 0.036 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.025 | < 0.0002 | 0.028 | < 0.357 | 0.094 | 0.0025 |
| | 6/28/2021 | B 2.0 | 210 | 93 | 0.99 | 6.90 | 570 | 1700 | ^+ < 0.003 | 0.0014 | 0.034 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.028 | < 0.0002 | 0.03 | 0.758 | 0.034 | 0.0023 |
| | 7/20/2021 | 2.0 | 190 | 81 | 0.89 | 6.88 | 500 | 1700 | < 0.003 | 0.0025 | 0.057 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.027 | < 0.0002 | 0.021 | < 0.434 | < 0.0025 | < 0.002 |
| | 8/23/2021 | 2.1 | 210 | 91 | 0.96 | 6.91 | 560 | 1800 | < 0.003 | 0.0022 | 0.035 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.03 | < 0.0002 | 0.031 | 0.515 | 0.01 | 0.0021 |
| | 10/1/2021 | 1.9 | 200 | 100 | 0.95 | 7.06 | 640 | 1700 | < 0.003 | 0.0045 | 0.039 | < 0.001 | 0.0005 | < 0.005 | < 0.001 | 0.00065 | ^1+ 0.034 | < 0.0002 | 0.037 | < 0.581 | < 0.0025 | 0.002 |
| | 11/29/2021 | 2.0 | 180 | 94 | 1.10 | 7.01 | ^- 480 | 1400 | < 0.003 | 0.0025 | 0.032 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.026 | < 0.0002 | 0.033 | < 0.442 | 0.01 | < 0.002 |
| | 2/9/2022 | 1.9 | 180 | 67 | 1.10 | 6.91 | 430 | 1500 | < 0.003 | 0.013 | 0.046 | < 0.001 | 0.00056 | < 0.005 | < 0.001 | < 0.0005 | 0.026 | < 0.0002 | 0.03 | 0.724 | < 0.0025 | 0.0022 |
| | 6/8/2022 | 2.2 | 220 | 87 | 0.96 | 7.12 | 810 | 2100 | < 0.003 | 0.0041 | 0.057 | < 0.001 | 0.00056 | < 0.005 | < 0.001 | < 0.0005 | 0.022 | < 0.0002 | 0.038 | < 0.429 | 0.013 | 0.0033 |
| | 8/31/2022 | 2.2 | B 200 | 120 | 0.86 | 6.74 | 610 | 1800 | < 0.003 | 0.004 | 0.056 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.027 | < 0.0002 | 0.024 | 0.743 | < 0.0025 | < 0.002 |
| | 11/17/2022 | NS | NS | NS | NS | 6.93 | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 2/22/2023 | 2.2 | 190 | 120 | 0.76 | 7.40 | 600 | 1700 | < 0.0030 | 0.015 | 0.067 | ^1+ ^+ < 0.0010 | 0.00085 | < 0.0050 | < 0.0010 | 0.0015 | 0.021 | 0.00022 | 0.025 | < 0.552 | 0.024 | 0.0020 |
| | 5/17/2023 | 2.3 | 280 | 100 | 1.0 | 7.02 | 1100 | 2600 | < 0.0030 | 0.0016 | 0.054 | ^1+ ^+ < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | 0.021 | < 0.00020 | 0.044 | < 0.712 | 0.090 | 0.0027 |
| | 8/29/2023 | 1.5 | 180 | 150 | 1.0 | 6.84 | 880 | 2300 | < 0.0020 | < 0.0020 | 0.041 | 0 0.0010 | < 0.00020 | < 0.0050 | < 0.0005 | 0.00056 | 0.024 | < 0.00020 | 0.034 | 0.816 | < 0.005 | 0.0022 |
| | 11/6/2023 | 1.5 | 190 | 140 | 0.87 | 6.95 | 840 | 2200 | < 0.0030 | 0.0026 | 0.042 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.00100 | < 0.00050 | 0.018 | < 0.00020 | 0.032 | 1.22 | 0.0086 | < 0.0020 |
| | 2/20/2024 | 1.6 | 200 | 130 | 1.0 | 7.12 | 670 | 2000 | < 0.0030 | 0.0012 | 0.039 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | 22 | < 0.00020 | 0.026 | < 0.505 | 0.0039 | 0.0021 |
| | 6/18/2024 | 2.2 | 290 | 85 | 1.1 | 6.85 | 1500 | 3900 | < 0.0030 | 0.0020 | 0.058 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.050 | < 0.00020 | 0.10 | < 0.553 | 0.053 | 0.0051 |
| | 9/9/2024 | 2.3 | 230 | 110 | 1.4 | 7.14 | **1800** | **4100** | ^1+ < 0.0030 | 0.0029 | 0.063 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | 0.018 | < 0.00020 | **0.14** | 0.584 | 0.010 | **0.0035** |
| | 11/18/2024 | 2.7 | 250 | 110 | 1.3 | 7.15 | **1700** | **3800** | < 0.0030 | 0.0019 | 0.056 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | 0.020 | < 0.00020 | **0.11** | < 0.639 | < 0.0025 | **0.0026** |
| MW-18A down-gradient | 9/12/2024 | 0.53 | 220 | 140 | 0.23 | 6.95 | 270 | **1400** | < 0.0030 | 0.0064 | 0.46 | < 0.0010 | < 0.00050 | 0.011 | 0.0046 | 0.0044 | 0.015 | < 0.00020 | 0.010 | < 0.983 | < 0.0025 | < 0.0020 |
| | 11/19/2024 | 0.33 | 290 | 110 | 0.30 | 6.79 | 140 | **1500** | < 0.0030 | 0.0087 | 0.34 | < 0.0010 | < 0.00050 | < 0.0050 | **0.0065** | < 0.00050 | < 0.010 | < 0.00020 | 0.0086 | 1.2 | < 0.0025 | < 0.0020 |
| | 1/7/2025 R | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | **0.0072** | NS | NS | NS | NS | NS | NS | NS |
| MW-22 down-gradient | 6/18/2024 | 0.98 | 130 | 110 | 0.40 | 6.95 | 220 | 940 | < 0.0030 | 0.0037 | 0.14 | < 0.0010 | < 0.00050 | < 0.0050 | 0.0027 | < 0.00050 | ^1+ < 0.010 | < 0.00020 | 0.028 | 0.718 | 0.0029 | < 0.0020 |
| | 9/12/2024 | 2.9 | 120 | 40 | 0.36 | 6.77 | 120 | 660 | < 0.0030 | **0.018** | 0.16 | < 0.0010 | < 0.00050 | < 0.0050 | 0.0033 | < 0.00050 | < 0.010 | < 0.00020 | 0.034 | < 0.698 | 0.0089 | < 0.0020 |
| | 11/20/2024 | 2.7 | 120 | 40 | 0.35 | 6.97 | 120 | 710 | < 0.0030 | 0.0028 | 0.10 | < 0.0010 | < 0.00050 | < 0.0050 | 0.0025 | < 0.00050 | < 0.010 | < 0.00020 | 0.034 | 0.807 | 0.023 | < 0.0020 |

Notes: All units are in mg/l except pH is in standard units.

NA - Not Analyzed

^+ - Continuing Calibration Verification is outsde acceptance limits, high biased.

B - Compound was found in the blank and sample

NSP- No Standard Provided

(CL) - Silty Clay Unit

F1 - MS and/or MSD Recovery outside of limits.

H - Sample was prepped or analyzed beyond the specified holding time.

NS - Not Sampled Due to Insufficient Water

R- Resampling Event

^- - Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.

^1+ - Initial Calibration Verification (ICV) is outside acceptance limits, high biased.

DNYA - Data Not Yet Available

Table 2. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Sand and Gravel Unit.

| 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 | Selenium | Thallium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GWPS | | 4.7 | NSP | 200 | 4.0 | 6.5-9.0 | 400 | 1200 | 0.006 | 0.010 | 2.0 | 0.004 | 0.005 | 0.1 | 0.006 | 0.0075 | 0.04 | 0.002 | 0.1 | 5 | 0.05 | 0.002 |
| MW-16 upgradient | 6/18/2024 | 0.19 | 110 | 21 | < 0.10 | 6.91 | 39 | 510 | < 0.0030 | < 0.0010 | 0.040 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^1+ < 0.010 | < 0.00020 | < 0.0050 | < 0.639 | < 0.0025 | < 0.0020 |
| | 9/11/2024 | 0.18 | 110 | 22 | < 0.10 | 7.05 | 25 | 500 | < 0.0030 | < 0.0010 | 0.039 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.754 | < 0.0025 | < 0.0020 |
| | 11/20/2024 | 0.16 | 120 | 28 | < 0.10 | 7.15 | 25 | 610 | < 0.0030 | < 0.0010 | 0.048 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | 0.755 | < 0.0025 | < 0.0020 |
| MW-01 down-gradient | 11/16/2015 | 1.0 | 98 | 44 | 0.17 | 7.07 | 93 | 530 | < 0.003 | < 0.001 | 0.057 | ^ < 0.001 | < 0.0005 | < 0.005 | < 0.001 | * < 0.0005 | < 0.01 | < 0.0002 | < 0.0050 | 0.744 | < 0.0025 | * < 0.002 |
| | 2/25/2016 | 0.2 | 110 | 42 | 0.16 | 7.23 | 54 | 460 | < 0.003 | 0.0025 | 0.053 | < 0.001 | < 0.0005 | < 0.005 | 0.0014 | 0.0019 | < 0.01 | < 0.0002 | < 0.005 | < 0.722 | 0.0029 | < 0.002 |
| | 5/20/2016 | 0.34 | 100 | 44 | 0.17 | 6.95 | 65 | 430 | < 0.003 | 0.0081 | 0.062 | < 0.001 | < 0.0005 | 0.007 | 0.0053 | 0.011 | < 0.01 | < 0.0002 | < 0.005 | < 0.953 | < 0.0025 | < 0.002 |
| | 8/17/2016 | 0.27 | 78 | 39 | 0.25 | 7.16 | 50 | 530 | < 0.003 | 0.0014 | 0.048 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.0014 | < 0.01 | < 0.0002 | 0.0057 | < 0.491 | < 0.0025 | < 0.002 |
| | 11/16/2016 | 0.18 | 97 | 39 | 0.21 | 7.22 | 32 | 500 | < 0.003 | 0.0051 | 0.056 | < 0.001 | < 0.0005 | < 0.005 | 0.0044 | 0.0082 | < 0.01 | < 0.0002 | 0.0059 | < 0.618 | < 0.0025 | < 0.002 |
| | 2/14/2017 | 0.18 | 120 | 55 | 0.17 | 7.30 | 60 | 550 | < 0.003 | 0.0041 | 0.056 | < 0.001 | < 0.0005 | < 0.005 | 0.0045 | 0.0076 | < 0.01 | < 0.0002 | 0.0056 | < 0.837 | < 0.0025 | < 0.002 |
| | 5/3/2017 | 0.19 | 86 | 66 | 0.16 | 7.41 | 45 | 460 | < 0.003 | 0.0015 | 0.045 | < 0.001 | < 0.0005 | < 0.005 | 0.0033 | 0.0067 | < 0.01 | < 0.0002 | < 0.005 | 0.574 | < 0.0025 | < 0.002 |
| | 6/21/2017 | 0.18 | 85 | 58 | 0.18 | 7.60 | 47 | 540 | < 0.003 | < 0.001 | 0.040 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0061 | < 0.418 | < 0.0025 | < 0.002 |
| | 8/25/2017 | 0.56 | 86 | 41 | 0.18 | 7.41 | 63 | 490 | < 0.003 | < 0.001 | 0.049 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0059 | 0.775 | < 0.0025 | < 0.002 |
| | 11/8/2017 | 0.57 | 130 | 38 | 0.12 | 6.69 | 61 | 640 | < 0.003 | < 0.001 | 0.083 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.343 | < 0.0025 | < 0.002 |
| | 5/17/2018 | 0.15 | 88 | 50 | 0.12 | 6.70 | 48 | 540 | < 0.003 | < 0.001 | 0.045 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.00068 | < 0.01 | < 0.0002 | < 0.005 | < 0.396 | < 0.0025 | < 0.002 |
| | 8/8/2018 | 0.14 | 86 | 48 | 0.13 | 6.80 | 43 | 430 | < 0.003 | < 0.001 | 0.051 | ^< 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.579 | < 0.0025 | < 0.002 |
| | 4/30/2019 | 0.07 | 78 | 54 | 0.17 | 7.20 | 27 | 450 | < 0.003 | 0.0014 | 0.039 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.0017 | < 0.01 | < 0.0002 | < 0.005 | < 0.656 | < 0.0025 | < 0.002 |
| | 8/26/2019 | 0.57 | 100 | 39 | 0.13 | 7.15 | 71 | 550 | < 0.003 | < 0.001 | 0.053 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.802 | < 0.0025 | < 0.002 |
| | 2/24/2020 | 0.28 | 87 | 53 | 0.21 | 7.19 | 34 | 410 | < 0.003 | < 0.001 | 0.044 | ^< 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.00057 | < 0.01 | < 0.0002 | < 0.005 | < 0.478 | < 0.0025 | < 0.002 |
| | 4/28/2020 | 0.33 | 110 | 46 | 0.19 | 7.17 | 41 | 470 | NA | < 0.001 | 0.051 | NA | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.628 | < 0.0025 | < 0.002 |
| | 12/7/2020 | 0.59 | 100 | 54 | 0.25 | 7.22 | 55 | 640 | NA | < 0.001 | 0.058 | NA | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0052 | < 0.542 | < 0.0025 | < 0.002 |
| | 5/11/2021 | 0.21 | 85 | 51 | 0.21 | 7.52 | 37 | 450 | < 0.003 | < 0.001 | 0.043 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.01 | 0.521 | < 0.0025 | < 0.002 |
| | 8/24/2021 | 0.27 | 99 | 40 | 0.18 | 7.19 | 56 | 430 | < 0.003 | < 0.001 | 0.061 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.00088 | < 0.01 | < 0.0002 | 0.007 | < 0.463 | < 0.0025 | < 0.002 |
| | 11/30/2021 | 0.35 | 84 | 41 | 0.19 | 7.14 | ^- 28 | 410 | < 0.003 | < 0.001 | 0.06 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.005 | < 0.0002 | 0.0072 | < 0.434 | 0.0026 | < 0.002 |
| | 2/9/2022 | 0.18 | 96 | 47 | 0.17 | 7.33 | 48 | 520 | < 0.003 | 0.0017 | 0.052 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.0012 | 0.003 | < 0.0002 | 0.0074 | < 0.527 | < 0.0025 | < 0.002 |
| | 6/7/2022 | 0.21 | 81 | 51 | 0.14 | 7.62 | 27 | 430 | < 0.003 | < 0.001 | 0.04 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0057 | 0.531 | < 0.0025 | < 0.002 |
| | 8/30/2022 | 0.59 | 92 | 44 | 0.15 | 7.10 | 66 | 810 | < 0.003 | < 0.001 | 0.073 | ^+ < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | ^+ < 0.01 | < 0.0002 | < 0.005 | < 0.441 | < 0.0025 | < 0.002 |
| | 11/15/2022 | 0.74 | 110 | 47 | 0.1 | 7.15 | 45 | 530 | < 0.003 | < 0.001 | 0.086 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.659 | < 0.0025 | < 0.002 |
| | 2/22/2023 | 0.46 | 110 | 52 | 0.14 | 7.51 | 92 | 500 | < 0.0030 | < 0.0010 | 0.082 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.503 | < 0.0025 | < 0.0020 |
| | 5/17/2023 | 0.29 | 91 | 39 | < 0.10 | 7.23 | 39 | 400 | < 0.0030 | < 0.0010 | 0.055 | ^+ ^1+ < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.357 | < 0.0025 | < 0.0020 |
| | 8/29/2023 | 0.59 | 100 | 47 | < 0.10 | 6.98 | 43 | 530 | < 0.0020 | < 0.0020 | 0.078 | < 0.0010 | < 0.00020 | < 0.0050 | < 0.0005 | < 0.00050 | < 0.010 | < 0.00020 | 0.0020 | < 0.574 | < 0.005 | < 0.0010 |
| | 11/7/2023 | 0.45 | 110 | 50 | < 0.10 | 6.95 | 68 | 590 | < 0.0030 | < 0.0010 | 0.090 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^+ < 0.010 | < 0.00020 | < 0.0050 | < 0.356 | 0.0026 | < 0.0020 |
| | 2/21/2024 | 1.5 | 120 | 46 | 0.10 | 7.12 | 81 | 580 | < 0.0030 | < 0.0010 | 0.090 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.528 | < 0.0025 | < 0.0020 |
| | 6/19/2024 | 0.14 | 100 | 78 | 0.12 | 6.48 | 29 | 550 | < 0.0030 | < 0.0010 | 0.053 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^1+ < 0.010 | < 0.00020 | < 0.0050 | < 0.688 | < 0.0025 | < 0.0020 |
| | 9/11/2024 | 0.18 | 78 | F1 61 | 0.15 | 7.17 | 35 | 430 | < 0.0030 | < 0.0010 | 0.066 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.546 | < 0.0025 | < 0.0020 |
| | 11/21/2024 | 1.4 | 110 | 46 | 0.11 | 7.03 | 51 | 580 | < 0.0030 | < 0.0010 | 0.089 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | 0.736 | < 0.0025 | < 0.0020 |
| MW-02 down-gradient | 6/20/2017 | 0.33 | 90 | 55 | 0.19 | 7.01 | 47 | 500 | < 0.003 | 0.0012 | 0.075 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.341 | < 0.0025 | < 0.002 |
| | 8/23/2017 | V 1.30 | 86 | 49 | 0.19 | 7.40 | 61 | 440 | < 0.003 | < 0.001 | 0.062 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.833 | < 0.0025 | < 0.002 |
| | 11/7/2017 | 3.70 | 98 | 46 | 0.17 | 7.10 | 88 | 550 | < 0.003 | 0.0014 | 0.091 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.309 | 0.0027 | < 0.002 |
| | 5/15/2018 | 0.22 | 80 | 45 | 0.23 | 7.71 | 54 | 500 | < 0.003 | 0.0013 | 0.065 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | 0.0004 | < 0.005 | < 0.408 | < 0.0025 | < 0.002 |
| | 8/7/2018 | 1.50 | 89 | 54 | 0.15 | 7.09 | 51 | 530 | < 0.003 | 0.0016 | 0.067 | <^ 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.622 | < 0.0025 | < 0.002 |
| | 10/30/2018 | 0.23 | 86 | 43 | 0.17 | 7.83 | 34 | 480 | < 0.003 | 0.0015 | 0.067 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.564 | < 0.0025 | < 0.002 |
| | 2/26/2019 | 0.07 | 69 | 49 | 0.16 | 7.82 | 23 | 400 | < 0.003 | 0.0026 | 0.041 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.0013 | < 0.01 | < 0.0002 | < 0.005 | < 0.425 | < 0.0025 | < 0.002 |
| | 4/30/2019 | 0.12 | 79 | 48 | 0.16 | 7.60 | 30 | 440 | < 0.003 | 0.0013 | 0.048 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.441 | < 0.0025 | < 0.002 |
| | 8/26/2019 | 0.51 | 86 | 50 | 0.18 | 7.13 | 32 | 400 | < 0.003 | 0.0011 | 0.065 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 1.180 | < 0.0025 | < 0.002 |
| | 2/24/2020 | 0.33 | 89 | 53 | 0.20 | 7.43 | 37 | 410 | < 0.003 | 0.0011 | 0.061 | < ^ 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.485 | < 0.0025 | < 0.002 |
| | 4/28/2020 | 0.33 | 90 | 50 | 0.20 | 7.32 | 41 | 430 | NA | 0.0016 | 0.06 | NA | NA | < 0.005 | < 0.001 | < 0.0005 | NA | NA | < 0.005 | < 0.54 | < 0.0025 | NA |
| | 12/9/2020 | 0.66 | 100 | 41 | 0.15 | 7.78 | 64 | 430 | NA | < 0.001 | 0.076 | NA | NA | < 0.005 | < 0.001 | < 0.0005 | NA | < 0.0002 | 0.0059 | < 0.471 | < 0.0025 | NA |
| | 5/11/2021 | 0.23 | 79 | 51 | 0.21 | 7.70 | 37 | 370 | < 0.003 | 0.0015 | 0.057 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0095 | < 0.528 | < 0.0025 | < 0.002 |
| | 8/24/2021 | 0.63 | 94 | 47 | 0.17 | 7.31 | 56 | 340 | < 0.003 | 0.0014 | 0.073 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.47 | < 0.0025 | < 0.002 |
| | 11/30/2021 | 0.22 | 87 | 41 | 0.14 | 7.39 | ^- 36 | 380 | < 0.003 | 0.0017 | 0.065 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.0045 | < 0.0002 | < 0.005 | 0.575 | < 0.0025 | < 0.002 |
| | 2/8/2022 | 0.27 | 95 | 47 | 0.2 | 7.69 | 49 | 550 | < 0.003 | 0.0017 | 0.054 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.0025 | < 0.0002 | 0.0076 | 0.554 | < 0.0025 | < 0.002 |
| | 6/7/2022 | 0.23 | 86 | 49 | 0.16 | 7.73 | 32 | 440 | < 0.003 | 0.0016 | 0.064 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.0100 | < 0.0002 | 0.0063 | 0.665 | < 0.0025 | < 0.002 |
| | 8/30/2022 | 1.1 | 95 | 45 | 0.15 | 7.22 | 75 | 690 | < 0.003 | < 0.001 | 0.073 | ^+ < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | ^+ < 0.0100 | < 0.0002 | < 0.005 | 0.535 | < 0.0025 | < 0.002 |
| | 11/14/2022 | 1.6 | 96 | 49 | 0.21 | 7.14 | 63 | 480 | < 0.003 | < 0.001 | 0.083 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.0100 | < 0.0002 | < 0.005 | < 0.587 | < 0.0025 | < 0.002 |
| | 2/21/2023 | 2.5 | 110 | 49 | 0.14 | 7.64 | 92 | 630 | < 0.0030 | < 0.0010 | 0.095 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.563 | < 0.0025 | < 0.0020 |
| | 5/16/2023 | 0.53 | 83 | 47 | 0.15 | 7.48 | 33 | 400 | < 0.0030 | 0.0011 | 0.065 | ^+ ^1+ < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.519 | < 0.0025 | < 0.0020 |
| | 8/28/2023 | 2.7 | 94 | 46 | 0.16 | 7.17 | 70 | 490 | F1 < 0.0020 | < 0.002 | 0.081 | < 0.0010 | < 0.00020 | < 0.0050 | < 0.0005 | 0.00058 | < 0.010 | < 0.00020 | < 0.0020 | < 0.742 | < 0.005 | F1 0.0031 |
| | 11/7/2023 | 3.6 | 120 | 45 | 0.15 | 7.14 | 170 | 680 | < 0.0030 | < 0.0010 | 0.10 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^+ < 0.010 | < 0.00020 | < 0.0050 | < 0.320 | 0.0026 | < 0.0020 |
| | 2/22/2024 | 0.25 | 76 | 62 | 0.14 | 7.43 | 47 | 480 | < 0.0030 | < 0.0010 | 0.059 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.559 | 0.0029 | < 0.0020 |
| | 6/19/2024 | 1.4 | 110 | 57 | 0.15 | 6.69 | 82 | 610 | < 0.0030 | < 0.0010 | 0.089 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^1+ < 0.010 | < 0.00020 | < 0.0050 | < 0.794 | < 0.0025 | < 0.0020 |
| | 9/10/2024 | 3.9 | 110 | 55 | 0.15 | 7.19 | 83 | 590 | < 0.0030 | < 0.0010 | 0.093 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.689 | < 0.0025 | < 0.0020 |
| | 11/19/2024 | 1.8 | 87 | 60 | 0.14 | 7.14 | 49 | 510 | < 0.0030 | < 0.0010 | 0.079 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.438 | < 0.0025 | < 0.0020 |
| MW-03 down-gradient | 6/20/2017 | 0.4 | 76 | 54 | 0.29 | 7.26 | 49 | 480 | < 0.003 | 0.0013 | 0.066 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.325 | < 0.0025 | < 0.002 |
| | 8/23/2017 | 0.40 | 79 | 52 | 0.28 | 7.44 | 52 | 430 | < 0.003 | 0.0010 | 0.066 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 1.200 | < 0.0025 | < 0.002 |
| | 11/7/2017 | 0.31 | 79 | 62 | 0.26 | 7.04 | 61 | 460 | < 0.003 | 0.0013 | 0.068 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.588 | < 0.0025 | < 0.002 |
| | 5/15/2018 | 0.35 | 87 | 66 | 0.27 | 7.53 | 77 | 520 | < 0.003 | 0.0010 | 0.059 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.489 | < 0.0025 | < 0.002 |
| | 8/7/2018 | 0.40 | 82 | 67 | 0.22 | 6.60 | 49 | 500 | < 0.003 | 0.0015 | 0.067 | ^< 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.341 | < 0.0025 | < 0.002 |
| | 10/30/2018 | 0.20 | 74 | 44 | 0.25 | 7.84 | 26 | 400 | < 0.003 | 0.0014 | 0.056 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.354 | < 0.0025 | < 0.002 |
| | 2/26/2019 | 0.06 | 74 | 56 | 0.24 | 7.49 | 25 | 410 | < 0.003 | 0.0013 | 0.054 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.0007 | < 0.01 | < 0.0002 | < 0.005 | < 0.399 | < 0.0025 | < 0.002 |
| | 4/30/2019 | 0.28 | 74 | 49 | 0.22 | 7.17 | 38 | 390 | < 0.003 | < 0.001 | 0.060 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.668 | < 0.0025 | < 0.002 |
| | 8/26/2019 | 0.31 | 75 | 50 | 0.26 | 7.17 | 14 | 380 | < 0.003 | 0.0014 | 0.069 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.444 | < 0.0025 | < 0.002 |
| | 2/24/2020 | 0.33 | 87 | 53 | 0.22 | 7.10 | 65 | 470 | < 0.003 | < 0.001 | 0.066 | ^< 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.400 | < 0.0025 | < 0.002 |
| | 4/28/2020 | 0.24 | 86 | 46 | 0.22 | 7.03 | 79 | 410 | NA | 0.0013 | 0.066 | NA | NA | < 0.005 | < 0.001 | < 0.0005 | NA | NA | < 0.005 | < 0.498 | 0.0036 | NA |
| | 12/9/2020 | 0.86 | 92 | 45 | 0.28 | 7.46 | 60 | 390 | NA | < 0.001 | 0.086 | NA | NA | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.432 | < 0.0025 | NA |
| | 5/11/2021 | 0.22 | 75 | 49 | 0.21 | 7.33 | 38 | 390 | < 0.003 | < 0.001 | 0.07 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.519 | < 0.0025 | < 0.002 |
| | 8/24/2021 | 0.41 | 81 | 46 | 0.25 | 7.15 | 32 | 310 | < 0.003 | 0.0012 | 0.072 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.444 | < 0.0025 | < 0.002 |
| | 11/30/2021 | 0.3 | 76 | 47 | 0.26 | 7.20 | ^- 23 | 350 | < 0.003 | 0.0014 | 0.063 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.004 | < 0.0002 | < 0.005 | < 0.436 | < 0.0025 | < 0.002 |
| | 2/8/2022 | 0.2 | 94 | 47 | 0.21 | 7.22 | 50 | 550 | < 0.003 | 0.001 | 0.058 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.003 | < 0.0002 | < 0.005 | 0.593 | < 0.0025 | < 0.002 |
| | 6/7/2022 | 0.37 | 79 | 45 | 0.22 | 7.37 | 47 | 370 | < 0.003 | 0.0012 | 0.064 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.851 | < 0.0025 | < 0.002 |
| | 8/30/2022 | 0.57 | 87 | 50 | 0.21 | 7.10 | 51 | 710 | < 0.003 | < 0.001 | 0.1 | ^+ < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | ^+ < 0.01 | < 0.0002 | < 0.005 | 0.589 | < 0.0025 | < 0.002 |
| | 11/14/2022 | 0.42 | 81 | 49 | 0.28 | 7.23 | 44 | 430 | < 0.003 | < 0.001 | 0.11 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.54 | < 0.0025 | < 0.002 |
| | 2/21/2023 | 1.00 | 96 | 53 | 0.20 | 7.75 | 70 | 550 | < 0.0030 | < 0.0010 | 0.11 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.493 | < 0.0025 | < 0.0020 |
| | 5/16/2023 | 0.15 | 80 | 69 | 0.21 | 7.42 | 31 | 420 | < 0.0030 | < 0.0010 | 0.068 | ^+ ^1+ < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | 0.993 | 0.0038 | < 0.0020 |
| | 8/28/2023 | 0.32 | 73 | 82 | 0.20 | 7.28 | 36 | 430 | < 0.0020 | < 0.0020 | 0.096 | < 0.0010 | < 0.00020 | < 0.0050 | < 0.0005 | < 0.00050 | < 0.010 | < 0.00020 | 0.0023 | < 0.742 | 0.0070 | 0.0030 |
| | 11/7/2023 | 1.1 | 90 | 59 | 0.19 | 7.29 | 91 | 530 | < 0.0030 | < 0.0010 | 0.12 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^+ < 0.010 | < 0.00020 | < 0.0050 | < 0.0758 | 0.0055 | < 0.0020 |
| | 2/22/2024 | 0.19 | 88 | 64 | 0.20 | 7.51 | 66 | 520 | < 0.0030 | < 0.0010 | 0.064 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.698 | 0.0058 | < 0.0020 |
| | 6/19/2024 | 0.93 | 100 | 54 | 0.24 | 6.80 | 73 | 540 | < 0.0030 | 0.0011 | 0.078 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^1+ < 0.010 | < 0.00020 | < 0.0050 | < 0.727 | < 0.0025 | < 0.0020 |
| | 9/10/2024 | 0.21 | 78 | 68 | 0.19 | 7.27 | 21 | 420 | < 0.0030 | < 0.0010 | 0.11 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.684 | < 0.0025 | < 0.0020 |
| | 11/19/2024 | 0.67 | 84 | 58 | 0.18 | 7.18 | 48 | 510 | < 0.0030 | < 0.0010 | 0.12 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.0657 | < 0.0025 | < 0.0020 |

Notes: All units are in mg/l except pH is in standard units.
NA - Not Analyzed
^+ - Continuing Calibration Verification is outsde acceptance limits, high biased.
B - Compound was found in the blank and sample
NSP - No Standard Provided

(CL) - Silty Clay Unit
F1 - MS and/or MSD Recovery outside of limits.
H - Sample was prepped or analyzed beyond the specified holding time.
NS - Not Sampled Due to Insufficient Water

^- - Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1+ - Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
DNYA - Data Not Yet Available

Table 2. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Sand and Gravel Unit.

| 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 | Selenium | Thallium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GWPS | 4.7 | NSP | 200 | 4.0 | 6.5-9.0 | 400 | 1200 | 0.006 | 0.010 | 2.0 | 0.004 | 0.005 | 0.1 | 0.006 | 0.0075 | 0.04 | 0.002 | 0.1 | 5 | 0.05 | 0.002 |
| MW-04 down-gradient | 6/20/2017 | 0.5 | 77 | 55 | 0.29 | 7.45 | 53 | 480 | < 0.003 | < 0.001 | 0.0025 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.343 | < 0.0025 | < 0.002 |
| | 8/28/2017 | V 0.73 | 90 | 89 | 0.33 | 7.13 | 110 | 680 | < 0.003 | < 0.001 | 0.028 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.013 | < 0.246 | < 0.0025 | < 0.002 |
| | 11/7/2017 | 0.60 | 110 | 94 | 0.24 | 6.80 | 130 | 650 | < 0.003 | < 0.001 | 0.051 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.332 | 0.0092 | < 0.002 |
| | 5/15/2018 | 0.68 | 87 | 66 | 0.27 | 7.63 | 100 | 630 | < 0.003 | < 0.001 | 0.037 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.661 | < 0.0025 | < 0.002 |
| | 8/7/2018 | 0.79 | 84 | 71 | 0.32 | 6.72 | 49 | 510 | < 0.003 | 0.0011 | 0.031 | <^ 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.006 | < 0.334 | < 0.0025 | < 0.002 |
| | 10/30/2018 | 0.54 | 100 | 80 | 0.24 | 7.55 | 91 | 690 | < 0.003 | < 0.001 | 0.049 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.423 | < 0.0025 | < 0.002 |
| | 2/26/2019 | 0.38 | 79 | 55 | 0.25 | 7.18 | 52 | 490 | < 0.003 | 0.0013 | 0.033 | < 0.001 | < 0.0005 | < 0.005 | 0.001 | 0.0012 | < 0.01 | < 0.0002 | < 0.005 | 0.366 | < 0.0025 | < 0.002 |
| | 4/30/2019 | 0.36 | 74 | 48 | 0.25 | 7.08 | 35 | 380 | < 0.003 | < 0.001 | 0.026 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.684 | < 0.0025 | < 0.002 |
| | 8/26/2019 | 0.64 | 91 | 60 | 0.24 | 7.08 | 14 | 490 | < 0.003 | < 0.001 | 0.032 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.008 | 1.090 | < 0.0025 | < 0.002 |
| | 2/24/2020 | 0.34 | 81 | 49 | 0.20 | 7.05 | 67 | 440 | < 0.003 | < 0.001 | 0.024 | ^< 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.595 | < 0.0025 | < 0.002 |
| | 4/28/2020 | 0.55 | 76 | 52 | 0.27 | 7.03 | 47 | 380 | NA | < 0.001 | 0.025 | NA | NA | < 0.005 | < 0.001 | < 0.0005 | NA | NA | < 0.005 | < 0.465 | < 0.0025 | NA |
| | 12/9/2020 | 0.57 | 92 | 88 | 0.32 | 7.10 | 94 | 580 | NA | < 0.001 | 0.034 | NA | NA | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0076 | < 0.411 | < 0.0025 | NA |
| | 5/11/2021 | 0.61 | 77 | 44 | 0.33 | 7.22 | 76 | 410 | < 0.003 | < 0.001 | 0.025 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.533 | < 0.0025 | < 0.002 |
| | 8/24/2021 | 0.72 | 78 | 48 | 0.34 | 7.12 | 15 | 100 | < 0.003 | < 0.001 | 0.024 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.014 | < 0.427 | < 0.0025 | < 0.002 |
| | 11/30/2021 | 0.51 | 99 | 56 | 0.25 | 6.95 | ^- 62 | 560 | < 0.003 | 0.0012 | 0.035 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.0035 | < 0.0002 | < 0.005 | < 0.419 | < 0.0025 | < 0.002 |
| | 2/8/2022 | 0.47 | 88 | 59 | 0.29 | 7.15 | 52 | 580 | < 0.003 | < 0.001 | 0.03 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.0038 | < 0.0002 | 0.006 | 0.818 | < 0.0025 | < 0.002 |
| | 6/7/2022 | 0.48 | 73 | 43 | 0.3 | 7.31 | 30 | 320 | < 0.003 | < 0.001 | 0.025 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0051 | < 0.473 | < 0.0025 | < 0.002 |
| | 8/30/2022 | 0.67 | 94 | 61 | 0.21 | 6.80 | 67 | 720 | < 0.003 | < 0.001 | 0.034 | ^+ < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | ^+ < 0.01 | < 0.0002 | < 0.005 | < 0.546 | < 0.0025 | < 0.002 |
| | 11/14/2022 | 0.84 | 110 | 62 | 0.2 | 6.85 | 41 | 570 | < 0.003 | < 0.001 | 0.08 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.583 | 0.0074 | < 0.002 |
| | 2/21/2023 | 0.75 | 89 | 54 | 0.22 | 7.58 | 54 | 540 | < 0.0030 | < 0.0010 | 0.035 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.567 | 0.0037 | < 0.0020 |
| | 5/16/2023 | 0.66 | 100 | 51 | 0.270 | 7.21 | 120 | 550 | < 0.0030 | < 0.0010 | 0.034 | ^+ ^1+ < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.624 | < 0.0025 | < 0.0020 |
| | 8/28/2023 | 0.78 | 95 | 72 | 0.24 | 7.02 | 110 | 610 | < 0.0020 | < 0.0020 | 0.062 | < 0.0010 | < 0.00020 | < 0.0050 | < 0.0050 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0020 | < 0.669 | < 0.005 | < 0.0010 |
| | 11/7/2023 | 0.78 | 100 | 59 | 0.21 | 7.01 | 150 | 620 | < 0.0030 | < 0.0010 | 0.065 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^+ < 0.010 | < 0.00020 | < 0.0050 | 0.679 | 0.0070 | < 0.0020 |
| | 2/22/2024 | 0.61 | 96 | 60 | 0.23 | 7.29 | 63 | 520 | < 0.0030 | < 0.0010 | 0.041 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.479 | 0.0042 | < 0.0020 |
| | 6/19/2024 | 1.3 | 120 | 57 | 0.30 | 6.77 | 150 | 670 | < 0.0030 | < 0.0010 | 0.049 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^1+ < 0.010 | < 0.00020 | < 0.0050 | < 0.725 | < 0.0025 | < 0.0020 |
| | 9/10/2024 | 1.6 | 100 | 62 | 0.18 | 6.96 | 110 | 590 | < 0.0030 | < 0.0010 | 0.062 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | 0.712 | < 0.0025 | < 0.0020 |
| | 11/19/2024 | 1.8 | 120 | 68 | 0.18 | 6.93 | 120 | 640 | < 0.0030 | < 0.0010 | 0.070 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | 0.0012 | < 0.010 | < 0.00020 | < 0.0050 | < 0.375 | 0.0025 | < 0.0020 |
| MW-05 down-gradient | 5/17/2016 | 0.70 | 100 | 85 | 0.35 | 7.08 | 120 | 660 | < 0.003 | < 0.001 | 0.051 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.373 | < 0.0025 | < 0.002 |
| | 8/16/2016 | 0.69 | 110 | 97 | 0.30 | 6.85 | 150 | 830 | < 0.003 | < 0.001 | 0.060 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.452 | < 0.0025 | < 0.002 |
| | 11/15/2016 | 0.93 | 94 | 66 | 0.23 | 6.96 | 77 | 620 | < 0.003 | < 0.001 | 0.051 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.449 | < 0.0025 | < 0.002 |
| | 2/14/2017 | 0.79 | 100 | 100 | 0.25 | 7.25 | 170 | 760 | < 0.003 | < 0.001 | 0.062 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | 0.00091 | < 0.01 | < 0.0002 | < 0.005 | < 0.359 | < 0.0025 | < 0.002 |
| | 5/1/2017 | 0.70 | 100 | 92 | 0.28 | 7.60 | 170 | 710 | < 0.003 | < 0.001 | 0.059 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0066 | < 0.439 | < 0.0025 | < 0.002 |
| | 6/20/2017 | 0.64 | 89 | 63 | 0.28 | 7.32 | 78 | 550 | < 0.003 | < 0.001 | 0.048 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0061 | < 0.365 | < 0.0025 | < 0.002 |
| | 8/28/2017 | 0.62 | 110 | 120 | 0.33 | 7.05 | 210 | 870 | < 0.003 | < 0.001 | 0.064 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0085 | 0.381 | < 0.0025 | < 0.002 |
| | 11/7/2017 | 0.51 | 99 | 110 | 0.31 | 6.87 | 160 | 990 | < 0.003 | < 0.001 | 0.058 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.341 | < 0.0025 | < 0.002 |
| | 5/15/2018 | 0.61 | 130 | 89 | 0.29 | 7.70 | 210 | 910 | < 0.003 | < 0.001 | 0.062 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | < 0.390 | < 0.0025 | < 0.002 |
| | 8/7/2018 | 0.49 | 110 | 120 | 0.32 | 6.56 | 180 | 890 | < 0.003 | < 0.001 | 0.054 | ^< 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0069 | 0.523 | < 0.0025 | < 0.002 |
| | 4/30/2019 | 0.56 | 84 | 73 | 0.36 | 6.96 | 120 | 590 | < 0.003 | < 0.001 | 0.041 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0061 | < 0.709 | < 0.0025 | < 0.002 |
| | 8/26/2019 | 0.57 | 110 | 75 | 0.29 | 7.01 | 110 | 660 | < 0.003 | < 0.001 | 0.050 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0067 | 0.651 | < 0.0025 | < 0.002 |
| | 2/24/2020 | 0.54 | 110 | 70 | 0.36 | 6.90 | 120 | H 700 | < 0.003 | < 0.001 | 0.057 | ^< 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0061 | 0.506 | < 0.0025 | < 0.002 |
| | 4/28/2020 | 0.49 | 110 | 56 | 0.37 | 6.87 | 130 | 620 | NA | 0.001 | 0.052 | NA | NA | < 0.005 | < 0.001 | < 0.0005 | NA | NA | 0.0074 | 0.508 | < 0.0025 | NA |
| | 12/9/2020 | 0.53 | 98 | 78 | 0.31 | 6.91 | 110 | 670 | NA | < 0.001 | 0.05 | NA | NA | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0072 | 0.569 | < 0.0025 | NA |
| | 5/11/2021 | 0.50 | 83 | 52 | 0.38 | 7.20 | 100 | 530 | < 0.003 | < 0.001 | 0.04 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0062 | < 0.525 | < 0.0025 | < 0.002 |
| | 8/24/2021 | 0.55 | 88 | 69 | 0.32 | 6.84 | 99 | 500 | < 0.003 | < 0.001 | 0.041 | < 0.001 | < 0.0005 | 0.007 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0073 | 0.863 | < 0.0025 | < 0.002 |
| | 11/30/2021 | 0.68 | 99 | 67 | 0.3 | 6.92 | ^- 92 | 620 | < 0.003 | 0.0011 | 0.048 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | 0.0052 | < 0.0002 | 0.0051 | 0.632 | < 0.0025 | < 0.002 |
| | 2/8/2022 | 0.56 | 88 | 68 | 0.36 | 6.95 | 91 | 650 | < 0.003 | < 0.001 | 0.043 | < 0.001 | 0.00066 | < 0.005 | 0.0023 | 0.0017 | 0.0051 | < 0.0002 | 0.007 | < 0.438 | < 0.0025 | < 0.002 |
| | 6/7/2022 | 0.59 | 110 | 58 | 0.27 | 7.15 | 120 | 650 | < 0.003 | < 0.001 | 0.052 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | 0.00034 | < 0.005 | < 0.468 | < 0.0025 | < 0.002 |
| | 8/30/2022 | 0.69 | 79 | 73 | 0.38 | 6.94 | 86 | 720 | < 0.003 | < 0.001 | 0.029 | ^+ < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | ^+ < 0.01 | < 0.0002 | 0.0073 | < 0.538 | < 0.0025 | < 0.002 |
| | 11/14/2022 | 1.1 | 96 | 64 | 0.29 | 6.87 | 93 | 600 | < 0.003 | < 0.001 | 0.072 | < 0.001 | < 0.0005 | < 0.005 | < 0.001 | < 0.0005 | < 0.01 | < 0.0002 | 0.0064 | < 0.573 | < 0.0025 | < 0.002 |
| | 2/21/2023 | 0.68 | 100 | 93 | 0.29 | 7.34 | 97 | 760 | < 0.0030 | < 0.0010 | 0.052 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.528 | 0.0031 | < 0.0020 |
| | 5/16/2023 | 0.78 | 110 | 79 | 0.30 | 7.04 | 130 | 690 | < 0.0030 | < 0.0010 | 0.053 | ^+ ^1+ < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | < 0.648 | < 0.0025 | < 0.0020 |
| | 8/29/2023 | 1.1 | 98 | 80 | 0.29 | 6.99 | 83 | 660 | < 0.0020 | < 0.0020 | 0.037 | < 0.0010 | < 0.00020 | < 0.0050 | < 0.0005 | < 0.00050 | < 0.010 | < 0.00020 | 0.0040 | 0.817 | < 0.005 | < 0.0010 |
| | 11/7/2023 | 1.5 | 110 | 98 | 0.26 | 6.96 | 150 | 700 | < 0.0030 | < 0.0010 | 0.039 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^+ < 0.010 | < 0.00020 | < 0.0050 | 0.428 | 0.0025 | < 0.0020 |
| | 2/22/2024 | 3.3 | 120 | 93 | 0.30 | 7.17 | 190 | 830 | < 0.0030 | < 0.0010 | 0.056 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | 0.965 | < 0.0025 | < 0.0020 |
| | 6/19/2024 | 1.8 | 140 | 82 | 0.33 | 6.74 | 190 | 850 | < 0.0030 | < 0.0010 | 0.057 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | ^1+ < 0.010 | < 0.00020 | < 0.0050 | < 0.797 | < 0.0025 | < 0.0020 |
| | 9/10/2024 | 2.3 | 100 | 61 | 0.26 | 7.10 | 120 | 670 | < 0.0030 | < 0.0010 | 0.060 | < 0.0010 | 0.00059 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | 0.0065 | 2.74 | < 0.0025 | < 0.0020 |
| | 11/19/2024 | 1.8 | 120 | 74 | 0.27 | 6.90 | 120 | 730 | < 0.0030 | < 0.0010 | 0.044 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | 0.844 | < 0.0025 | < 0.0020 |
| MW-07 downgradient | 6/18/2024 | 0.79 | 230 | 130 | 0.50 | 6.56 | 49 | 1100 | < 0.0030 | 0.12 | 0.48 | < 0.0010 | < 0.00050 | 0.0073 | 0.0088 | 0.0051 | ^1+ < 0.010 | < 0.00020 | 0.0058 | < 1.29 | < 0.0025 | < 0.0020 |
| | 9/10/2024 | 0.39 | 250 | 140 | 0.39 | 6.69 | 24 | 1000 | < 0.0030 | **0.14** | 0.49 | < 0.0010 | < 0.00050 | < 0.0050 | **0.0074** | 0.0010 | < 0.010 | < 0.00020 | 0.0069 | **6.30** | < 0.0025 | < 0.0020 |
| | 11/20/2024 | 0.51 | 230 | 150 | 0.43 | 6.74 | 45 | 1100 | < 0.0030 | **0.10** | 0.48 | < 0.0010 | < 0.00050 | < 0.0050 | **0.0070** | 0.0015 | < 0.010 | < 0.00020 | 0.0065 | 1.51 | < 0.0025 | < 0.0020 |

Notes: All units are in mg/l except pH is in standard units.
NA - Not Analyzed
^+ - Continuing Calibration Verification is outsde acceptance limits, high biased.
B - Compound was found in the blank and sample
NSP - No Standard Provided

(CL) - Silty Clay Unit
F1 - MS and/or MSD Recovery outside of limits.
H - Sample was prepped or analyzed beyond the specified holding time.
NS - Not Sampled Due to Insufficient Water

^- - Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1+ - Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
DNYA - Data Not Yet Available

Table 2. Groundwater Analytical Results - Midwest Generation, LLC, Powerton Station, Pekin, IL. Sand and Gravel Unit.

| 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 | Selenium | Thallium |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | GWPS | 4.7 | NSP | 200 | 4 | 6.5-9.0 | 400 | 1200 | 0.0060 | 0.01 | 2 | 0.0040 | 0.00500 | 0.1000 | 0.0060 | 0.0075 | 0.040 | 0.00200 | 0.1000 | 5.00 | 0.0500 | 0.0020 |
| MW-10 upgradient | 6/22/2017 | 0.46 | 100 | 48 | 0.19 | 6.81 | 54 | 1.0 | < 0.003 | 0.0023 | 0.250 | < 0.001 | < 0.0005 | < 0.005 | 0.008 | 0.003 | < 0.01 | < 0.0002 | < 0.005 | 0.408 | 0.0042 | < 0.002 |
| | 8/24/2017 | 0.32 | 93 | 51 | 0.18 | 7.14 | 57 | 480 | < 0.003 | 0.0020 | 0.220 | < 0.001 | < 0.0005 | < 0.005 | 0.007 | 0.003 | < 0.01 | < 0.0002 | < 0.005 | 0.564 | 0.0044 | < 0.002 |
| | 11/9/2017 | 0.36 | 98 | 48 | 0.18 | 6.78 | 64 | 500 | < 0.003 | < 0.0010 | 0.220 | < 0.001 | < 0.0005 | < 0.005 | 0.004 | < 0.001 | < 0.01 | < 0.0002 | < 0.005 | 1.020 | 0.0034 | < 0.002 |
| | 5/16/2018 | 0.42 | 93 | 44 | 0.19 | 7.64 | 80 | 530 | < 0.003 | 0.0010 | 0.220 | < 0.001 | < 0.0005 | < 0.005 | 0.021 | 0.001 | < 0.01 | < 0.0002 | < 0.005 | 1.550 | 0.0050 | < 0.002 |
| | 8/8/2018 | 0.39 | 99 | 58 | 0.19 | 7.10 | 60 | 550 | < 0.003 | 0.0012 | 0.220 | <^ 0.001 | < 0.0005 | < 0.005 | 0.014 | 0.001 | < 0.01 | < 0.0002 | < 0.005 | < 0.551 | 0.0062 | < 0.002 |
| | 10/30/2018 | 0.34 | 110 | 49 | 0.22 | 7.65 | 49 | 510 | < 0.003 | 0.0110 | 0.410 | < 0.001 | 0.0008 | 0.024 | 0.047 | 0.023 | 0.02 | < 0.0002 | < 0.005 | 3.00 | 0.0046 | < 0.002 |
| | 2/26/2019 | 0.39 | 150 | 48 | 0.21 | 6.77 | 36 | 540 | < 0.003 | 0.0220 | 0.590 | < 0.005 | 0.0015 | 0.063 | 0.081 | 0.036 | 0.03 | < 0.0002 | 0.007 | 4.130 | 0.0041 | < 0.002 |
| | 5/1/2019 | 0.35 | 92 | 50 | 0.22 | 6.81 | 30 | 470 | < 0.003 | 0.0023 | 0.270 | < 0.001 | < 0.0005 | < 0.005 | 0.011 | 0.0028 | < 0.01 | < 0.0002 | < 0.005 | 1.330 | 0.0037 | < 0.002 |
| | 8/26/2019 | 0.30 | 84 | 48 | 0.19 | 7.09 | 30 | 410 | < 0.003 | 0.0017 | 0.190 | < 0.001 | < 0.001 | < 0.005 | 0.007 | 0.0016 | < 0.01 | < 0.0002 | < 0.005 | 1.540 | 0.0050 | < 0.002 |
| | 2/25/2020 | 1.40 | 110 | 45 | 0.23 | 6.82 | 59 | 500 | < 0.003 | 0.0033 | 0.280 | ^ < 0.001 | < 0.0005 | 0.0086 | 0.011 | 0.0046 | < 0.01 | < 0.0002 | < 0.005 | 1.07 | 0.0058 | < 0.002 |
| | 4/28/2020 | 1.00 | 110 | 41 | 0.24 | 6.80 | 64 | 550 | NA | 0.0022 | 0.250 | NA | NA | < 0.005 | 0.0065 | 0.0017 | NA | NA | < 0.005 | 0.639 | 0.0054 | NA |
| | 12/8/2020 | 2.40 | 120 | 44 | 0.26 | 7.11 | 71 | 550 | NA | 0.0015 | 0.280 | NA | NA | < 0.005 | 0.0089 | 0.0023 | NA | < 0.0002 | < 0.005 | 1.76 | 0.0031 | NA |
| | 5/11/2021 | 0.64 | 100 | 52 | 0.24 | 7.01 | 59 | 540 | < 0.003 | 0.0011 | 0.260 | < 0.001 | < 0.0005 | < 0.005 | 0.008 | 0.00085 | < 0.01 | < 0.0002 | < 0.005 | 1.42 | 0.0049 | < 0.002 |
| | 8/24/2021 | 0.42 | 98 | 53 | 0.21 | 6.87 | 46 | 420 | < 0.003 | 0.0017 | 0.24 | < 0.001 | < 0.0005 | < 0.005 | 0.0082 | 0.002 | < 0.01 | < 0.0002 | < 0.005 | 0.638 | 0.0051 | < 0.002 |
| | 11/30/2021 | 0.42 | 100 | 47 | 0.19 | 6.99 | ^- 36 | 530 | < 0.003 | 0.0015 | 0.2 | < 0.001 | < 0.0005 | < 0.005 | 0.0037 | 0.00051 | 0.0031 | < 0.0002 | < 0.005 | 1.39 | < 0.0025 | < 0.002 |
| | 2/9/2022 | 0.41 | 94 | 48 | 0.22 | 6.88 | 50 | 530 | < 0.003 | 0.011 | 0.6 | < 0.001 | 0.00064 | 0.026 | 0.054 | 0.021 | 0.011 | < 0.0002 | < 0.005 | 6.51 | 0.0045 | < 0.002 |
| | 3/29/22 R | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 6/7/2022 | 0.43 | 85 | 44 | 0.21 | 7.09 | 38 | 390 | < 0.003 | 0.0011 | 0.18 | < 0.001 | < 0.0005 | < 0.005 | 0.0028 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.687 | 0.0049 | < 0.002 |
| | 8/30/2022 | 0.38 | 92 | 45 | 0.22 | 6.83 | 38 | 590 | < 0.003 | 0.0012 | 0.24 | ^+< 0.001 | < 0.0005 | < 0.005 | 0.0086 | 0.00074 | ^+ < 0.01 | < 0.0002 | < 0.005 | 1.4 | < 0.0025 | < 0.002 |
| | 11/15/2022 | 0.44 | 99 | 49 | 0.28 | 7.03 | 48 | 470 | < 0.003 | < 0.001 | 0.2 | < 0.001 | < 0.0005 | < 0.005 | 0.0052 | < 0.0005 | < 0.01 | < 0.0002 | < 0.005 | 0.909 | < 0.0025 | < 0.002 |
| | 2/22/2023 | 1.3 | 100 | 40 | 0.22 | 7.57 | 66 | 510 | < 0.0030 | 0.0010 | 0.22 | < 0.0010 | < 0.00050 | < 0.0050 | 0.0039 | 0.00057 | < 0.010 | < 0.00020 | < 0.0050 | 0.753 | 0.0040 | < 0.0020 |
| | 5/17/2023 | 1.8 | 130 | 34 | 0.25 | 7.07 | 84 | 610 | < 0.0030 | 0.0017 | 0.32 | ^+ ^1+ < 0.0010 | < 0.00050 | < 0.0050 | 0.012 | 0.0018 | < 0.010 | < 0.00020 | < 0.0050 | 2.52 | 0.0047 | < 0.0020 |
| | 8/29/2023 | 1.3 | 96 | 56 | 0.29 | 7.00 | 50 | 510 | < 0.0020 | < 0.002 | 0.2 | < 0.0010 | < 0.00020 | < 0.0050 | 0.0042 | 0.00083 | < 0.010 | < 0.00020 | < 0.0020 | < 0.667 | < 0.005 | < 0.0010 |
| | 11/7/2023 | 2.4 | 110 | 42 | 0.31 | 7.11 | 150 | 630 | < 0.0030 | 0.0015 | 0.25 | < 0.0010 | < 0.00050 | < 0.0050 | 0.0081 | 0.0019 | ^+ < 0.010 | < 0.00020 | < 0.0050 | 1.91 | 0.0043 | < 0.0020 |
| | 2/21/2024 | 6.5 | 110 | 37 | 0.26 | 7.21 | 150 | 660 | < 0.0030 | 0.0014 | 0.27 | < 0.0010 | < 0.00050 | < 0.0050 | 0.0045 | 0.0017 | < 0.010 | < 0.00020 | < 0.0050 | < 0.664 | 0.0062 | < 0.0020 |
| | 6/19/2024 | 5.8 | 130 | 35 | 0.28 | 6.95 | 150 | 710 | < 0.0030 | 0.0012 | 0.25 | < 0.0010 | < 0.00050 | < 0.0050 | 0.0071 | 0.0014 | ^1+ < 0.010 | < 0.00020 | < 0.0050 | 1.34 | 0.0066 | < 0.0020 |
| | 9/11/2024 | 2.9 | 110 | 53 | 0.29 | 6.94 | 72 | 590 | < 0.0030 | 0.0011 | 0.23 | < 0.0010 | < 0.00050 | < 0.0050 | **0.0067** | 0.00084 | < 0.010 | < 0.00020 | < 0.0050 | 1.33 | 0.0047 | < 0.0020 |
| | 11/21/2024 | 0.87 | 22 | 62 | 0.30 | 7.16 | 39 | 510 | < 0.0030 | < 0.0010 | 0.049 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | < 0.00050 | < 0.010 | < 0.00020 | < 0.0050 | 0.958 | < 0.0025 | < 0.0020 |
| MW-21D downgradient | 6/17/2024 | 2.0 | 81 | 73 | 0.41 | 7.09 | 140 | 570 | < 0.0030 | 0.0033 | 0.46 | < 0.0010 | < 0.00050 | 0.0076 | 0.0047 | 0.0036 | ^1+ < 0.010 | < 0.00020 | 0.021 | 1.28 | 0.0031 | < 0.0020 |
| | 9/10/2024 | 0.71 | 69 | 110 | 0.58 | 7.46 | 100 | 630 | < 0.0030 | 0.0011 | 0.11 | < 0.0010 | < 0.00050 | < 0.0050 | < 0.0010 | 0.00050 | < 0.010 | < 0.00020 | 0.041 | < 0.607 | < 0.0025 | < 0.0020 |
| | 11/18/2024 | 0.80 | 75 | 110 | 0.48 | 7.39 | 100 | 630 | < 0.0030 | 0.0023 | 0.26 | < 0.0010 | < 0.00050 | < 0.0050 | 0.0028 | 0.0023 | < 0.010 | < 0.00020 | 0.025 | 0.958 | < 0.0025 | < 0.0020 |

Notes: All units are in mg/l except pH is in standard units.
NA - Not Analyzed
^+ - Continuing Calibration Verification is outsde acceptance limits, high biased.
B - Compound was found in the blank and sample
NSP - No Standard Provided
(CL) - Silty Clay Unit
F1 - MS and/or MSD Recovery outside of limits.
H - Sample was prepped or analyzed beyond the specified holding time.
NS - Not Sampled Due to Insufficient Water
^- - Continuing Calibration Verification (CCV) is outside acceptance limits, low biased.
^1+ - Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
DNYA - Data Not Yet Available

Table 3 - Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Silty Clay/Silt Unit.

| Well | Date | Turbidity (NTU) |
|---|---|---|
| MW-16 | 6/18/2024 | 13.04 |
| | 9/11/2024 | 8.22 |
| | 11/20/2024 | 5.80 |
| MW-06 | 6/18/2024 | 11.22 |
| | 9/10/2024 | 12.45 |
| | 11/19/2024 | 8.99 |
| MW-14 | 2/24/2021 | 13.9 |
| | 4/8/2021 | 5.39 |
| | 5/12/2021 | 1.22 |
| | 6/3/2021 | 2.63 |
| | 6/28/2021 | 3.74 |
| | 7/20/2021 | 4.34 |
| | 8/23/2021 | 4.26 |
| | 10/1/2021 | 10.27 |
| | 11/29/2021 | 12.29 |
| | 2/9/2022 | 8.66 |
| | 6/8/2022 | 19.54 |
| | 8/31/2022 | 40.75 |
| | 11/17/2022 | 31.69 |
| | 2/21/2023 | 7.33 |
| | 5/17/2023 | 7.08 |
| | 8/29/2023 | 1.95 |
| | 11/6/2023 | 34.43 |
| | 2/20/2024 | 6.79 |
| | 6/18/2024 | 8.71 |
| | 9/9/2024 | 8.64 |
| | 11/18/2024 | 16.95 |
| MW-18A | 9/12/2024 | 85.61 |
| | 11/19/2024 | 34.77 |
| MW-22 | 6/20/2024 | 12.39 |
| | 9/12/2024 | 18.30 |
| | 11/20/2024 | 5.85 |

Table 4. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Sand and Gravel Unit.

| Well | Date | Turbidity (NTU) |
|---|---|---|
| MW-16 | 6/18/2024 | 13.04 |
| | 9/11/2024 | 8.22 |
| | 11/20/2024 | 5.80 |
| MW-01 | 2/23/2021 | 78.20 |
| | 4/9/2021 | 6.96 |
| | 5/11/2021 | 3.24 |
| | 6/2/2021 | 3.8 |
| | 6/28/2021 | 4.30 |
| | 7/19/2021 | 4.88 |
| | 8/24/2021 | 3.34 |
| | 9/30/2021 | 3.04 |
| | 11/30/2021 | 5.43 |
| | 2/9/2022 | 11.5 |
| | 6/7/2022 | 3.63 |
| | 8/30/2022 | 4.73 |
| | 11/15/2022 | 3.9 |
| | 2/22/2023 | 4.54 |
| | 5/17/2023 | 4.33 |
| | 8/29/2023 | 4.40 |
| | 11/7/2023 | 2.93 |
| | 2/21/2024 | 17.88 |
| | 6/19/2024 | 10.24 |
| | 9/11/2024 | 8.24 |
| | 11/21/2024 | 3.44 |
| MW-02 | 2/22/2021 | 19.60 |
| | 4/8/2021 | 4.55 |
| | 5/11/2021 | 1.82 |
| | 6/2/2021 | 2.06 |
| | 6/28/2021 | 2.67 |
| | 7/19/2021 | 3.56 |
| | 8/24/2021 | 5.23 |
| | 10/1/2021 | 2.76 |
| | 11/30/2021 | 0 |
| | 2/8/2022 | 0 |
| | 6/7/2022 | 2.03 |
| | 8/30/2022 | 2.46 |
| | 11/14/2022 | 29.35 |
| | 2/21/2023 | 2.63 |
| | 5/16/2023 | 62.49 |
| | 8/28/2023 | 1.70 |
| | 11/7/2023 | 2.63 |
| | 2/22/2024 | 22.00 |
| | 6/19/2024 | 8.34 |
| | 9/10/2024 | 7.53 |
| | 11/19/2024 | 3.32 |
| MW-03 | 2/22/2021 | 8.20 |
| | 4/8/2021 | 4.00 |
| | 5/11/2021 | 2.68 |
| | 6/2/2021 | 3.63 |
| | 6/28/2021 | 3.32 |
| | 7/19/2021 | 4.22 |
| | 8/24/2021 | 5.75 |
| | 10/1/2021 | 2.45 |
| | 11/30/2021 | 0.0 |
| | 2/8/2022 | 0.0 |
| | 6/7/2022 | 1.72 |
| | 8/30/2022 | 2.67 |
| | 11/14/2022 | 4.03 |
| | 2/21/2023 | 2.33 |
| | 5/16/2023 | 6.94 |
| | 8/28/2023 | 1.45 |
| | 11/7/2023 | 2.29 |
| | 2/22/2024 | 10.24 |
| | 6/19/2024 | 7.26 |
| | 9/10/2024 | 8.64 |
| | 11/19/2024 | 3.83 |
| MW-04 | 2/22/2021 | 4.20 |
| | 4/8/2021 | 4.05 |
| | 5/11/2021 | 4.33 |
| | 6/2/2021 | 2.12 |
| | 6/28/2021 | 8.21 |
| | 7/19/2021 | 3.84 |
| | 8/24/2021 | 2.92 |
| | 10/1/2021 | 2.72 |
| | 11/30/2021 | 0 |
| | 2/8/2022 | 11.09 |
| | 6/7/2022 | 1.62 |
| | 8/30/2022 | 4.05 |
| | 11/14/2022 | 20.7 |
| | 2/21/2023 | 3.7 |
| | 5/16/2023 | 2.5 |
| | 8/28/2023 | 5.59 |
| | 11/7/2023 | 3.48 |
| | 2/22/2024 | 15.41 |
| | 6/19/2024 | 12.81 |
| | 9/10/2024 | 7.64 |
| | 11/19/2024 | 3.26 |

Table 4. Groundwater Turbidity - Midwest Generation, LLC, Powerton Station, Pekin, IL. Sand and Gravel Unit.

| Well | Date | Turbidity (NTU) |
|---|---|---|
| MW-05 | 2/22/2021 | 1.72 |
| | 4/8/2021 | 4.00 |
| | 5/11/2021 | 1.82 |
| | 6/2/2021 | 1.88 |
| | 6/28/2021 | 3.49 |
| | 7/19/2021 | 8.39 |
| | 8/24/2021 | 3.2 |
| | 10/1/2021 | 3.12 |
| | 11/30/2021 | 0 |
| | 2/8/2022 | 0 |
| | 6/7/2022 | 2.33 |
| | 8/30/2022 | 2.7 |
| | 11/14/2022 | 2.05 |
| | 2/21/2023 | 2.16 |
| | 5/16/2023 | 2.55 |
| | 8/28/2023 | 1.5 |
| | 11/7/2023 | 2.5 |
| | 2/22/2024 | 7.08 |
| | 6/19/2024 | 7.56 |
| | 9/10/2024 | 8.7 |
| | 11/19/2024 | 3.18 |
| MW-07 | 6/18/2024 | 40.69 |
| | 9/10/2024 | 17.49 |
| | 11/20/2024 | 25.87 |
| MW-10 | 2/23/2021 | 257.70 |
| | 4/9/2021 | 54.91 |
| | 5/11/2021 | 24.74 |
| | 6/2/2021 | 6.02 |
| | 6/28/2021 | 14.11 |
| | 7/19/2021 | 17.53 |
| | 8/24/2021 | 41.55 |
| | 9/30/2021 | 17.07 |
| | 11/30/2021 | 11.92 |
| | 2/9/2022 | 224.6 |
| | 6/7/2022 | 7.88 |
| | 8/30/2022 | 13.34 |
| | 11/15/2022 | 23.18 |
| | 2/22/2023 | 14.31 |
| | 5/17/2023 | 30.7 |
| | 8/29/2023 | 31.79 |
| | 11/7/2023 | 20.85 |
| | 2/21/2024 | 29.67 |
| | 6/19/2024 | 22.65 |
| | 9/11/2024 | 31.08 |
| | 11/21/2024 | 18.30 |
| MW-21D | 6/17/2024 | 162.37 |
| | 9/10/2024 | 22.92 |
| | 11/18/2024 | 72.04 |

Table 5. Groundwater Elevations for CCR Permit Wells and Piezometers - Midwest Generation, LLC, Powerton Station, Pekin, IL

| Well ID | Date | Top of Casing Elevation (ft above MSL) | Depth to Groundwater (ft below TOC) | Groundwater Elevation (ft above MSL) | Illinois River Gage Reading* (ft above datum) | Illinois River Gage Reading* (ft above MSL) |
|---|---|---|---|---|---|---|
| MW-06 down-gradient | 5/11/2015 | 464.47 | 17.26 | 447.21 | 11.61 | 438.78 |
| | 8/18/2015 | 464.47 | 15.65 | 448.82 | 4.62 | 431.79 |
| | 11/16/2015 | 464.47 | 19.11 | 445.36 | 4.38 | 431.55 |
| | 2/22/2016 | 464.50 | 17.11 | 447.39 | 7.97 | 435.14 |
| | 5/16/2016 | 464.50 | 17.80 | 446.70 | 14.53 | 441.7 |
| | 8/15/2016 | 464.50 | 14.13 | 450.37 | 7.11 | 434.28 |
| | 11/14/2016 | 464.50 | 15.06 | 449.44 | 6.35 | 433.52 |
| | 2/13/2017 | 464.50 | 13.77 | 450.73 | NA | NA |
| | 5/2/2017 | 464.50 | 14.15 | 450.35 | 17.09 | 444.26 |
| | 8/24/2017 | 464.50 | 16.09 | 448.41 | 3.86 | 431.03 |
| | 11/8/2017 | 464.50 | 16.76 | 447.74 | 6.89 | 434.06 |
| | 3/6/2018 | 464.50 | 15.00 | 449.50 | NA | NA |
| | 5/18/2018 | 464.50 | 15.82 | 448.68 | 9.93 | 437.1 |
| | 8/10/2018 | 464.50 | 14.29 | 450.21 | 2.13 | 429.3 |
| | 10/29/2018 | 464.50 | 16.67 | 447.83 | 4.21 | 431.38 |
| | 2/25/2019 | 464.50 | 14.98 | 449.52 | 16.74 | 443.91 |
| | 4/29/2019 | 464.50 | 15.87 | 448.63 | 14.04 | 441.21 |
| | 8/26/2019 | 464.50 | 15.31 | 449.19 | 3.61 | 430.78 |
| | 11/11/2019 | 464.50 | 15.16 | 449.34 | 15.92 | 443.09 |
| | 2/24/2020 | 464.50 | 15.83 | 448.67 | 12.84 | 440.01 |
| | 4/27/2020 | 464.50 | 15.36 | 449.14 | 12.64 | 439.81 |
| | 8/10/2020 | 464.50 | 17.70 | 446.80 | 4.29 | 431.46 |
| | 12/7/2020 | 464.50 | 16.00 | 448.50 | 2.97 | 430.14 |
| | 2/22/2021 | 464.50 | 15.58 | 448.92 | 6.21 | 433.38 |
| | 5/10/2021 | 464.50 | 15.35 | 449.15 | 10.71 | 437.88 |
| | 8/23/2021 | 464.50 | 16.05 | 448.45 | 3.49 | 430.66 |
| | 11/29/2021 | 464.50 | 16.85 | 447.65 | 5.17 | 432.34 |
| | 2/7/2022 | 464.50 | 17.14 | 447.36 | 4.4 | 431.57 |
| | 6/6/2022 | 464.50 | 17.06 | 447.44 | 8.21 | 429.59 |
| | 8/29/2022 | 464.50 | 17.50 | 447.00 | 2.55 | 429.72 |
| | 11/14/2022 | 464.50 | 17.96 | 446.54 | 3.2 | 430.37 |
| | 2/20/2023 | 464.50 | 17.27 | 447.23 | 7.6 | 434.77 |
| | 5/15/2023 | 464.50 | 17.17 | 447.33 | 8.78 | 435.95 |
| | 8/28/2023 | 464.50 | 17.86 | 446.64 | 3.26 | 430.43 |
| | 11/6/2023 | 464.50 | 18.85 | 445.65 | 3.65 | 430.82 |
| | 1/24/2024 | 464.50 | 18.59 | 445.91 | 12.92 | 440.09 |
| | 2/19/2024 | 464.50 | 18.13 | 446.37 | 12.74 | 439.91 |
| | 3/26/2024 | 464.50 | 17.28 | 447.22 | 10.1 | 437.27 |
| | 4/12/2024 | 464.50 | 16.94 | 447.56 | 16.79 | 443.96 |
| | 5/15/2024 | 464.50 | 16.20 | 448.30 | 15.9 | 443.07 |
| | 6/17/2024 | 464.50 | 16.26 | 448.24 | 12.03 | 439.2 |
| | 7/25/2024 | 464.50 | 16.00 | 448.50 | 12.63 | 439.8 |
| | 8/21/2024 | 464.50 | 15.91 | 448.59 | 11.76 | 438.93 |
| | 9/9/2024 | 464.50 | 16.09 | 448.41 | 11.82 | 438.99 |
| | 10/29/2024 | 464.50 | 16.16 | 448.34 | 2.16 | 429.33 |
| | 11/18/2024 | 464.50 | 16.26 | 448.24 | 4.14 | 431.31 |
| | 12/10/2024 | 464.50 | 17.26 | 447.24 | 2.8 | 429.97 |
| MW-12 / 12R down-gradient | 11/16/2015 | 473.38 | 24.48 | 448.90 | 4.38 | 431.55 |
| | 2/22/2016 | 473.38 | 21.41 | 451.97 | 7.97 | 435.14 |
| | 5/16/2016 | 473.38 | 22.94 | 450.44 | 14.53 | 441.7 |
| | 8/15/2016 | 473.38 | 23.85 | 449.53 | 7.11 | 434.28 |
| | 11/14/2016 | 473.38 | 23.89 | 449.49 | 6.35 | 433.52 |
| | 2/13/2017 | 473.38 | 21.93 | 451.45 | NA | NA |
| | 5/1/2017 | 473.38 | 22.26 | 451.12 | 17.09 | 444.26 |
| | 6/20/2017 | 473.38 | 22.76 | 450.62 | 11.93 | 439.1 |
| | 8/26/2017 | 473.38 | 23.92 | 449.46 | 3.86 | 431.03 |
| | 11/10/2017 | 473.38 | 24.29 | 449.09 | 6.89 | 434.06 |
| | 5/16/2018 | 473.38 | 22.46 | 450.92 | 9.93 | 437.1 |
| | 8/9/2018 | 473.38 | 23.78 | 449.60 | 2.13 | 429.3 |
| | 11/1/2018 | 473.38 | 23.74 | 449.64 | 4.21 | 431.38 |
| | 4/29/2019 | 473.38 | 22.05 | 451.33 | 14.04 | 441.21 |
| | 11/11/2019 | 473.38 | 22.85 | 450.53 | 15.92 | 443.09 |
| | 4/27/2020 | 473.38 | 21.44 | 451.94 | 12.64 | 439.81 |
| | 12/7/2020 | 473.38 | 22.70 | 450.68 | 2.97 | 430.14 |
| | 2/22/2021 | 473.38 | 21.00 | 452.38 | 6.21 | 433.38 |
| | 4/7/2021 | 473.38 | 21.91 | 451.47 | 10.23 | 437.4 |
| | 5/10/2021 | 473.38 | 22.50 | 450.88 | 10.71 | 437.88 |
| | 6/2/2021 | 473.38 | 22.60 | 450.78 | 10.7 | 437.87 |
| | 6/28/2021 | 473.38 | 22.95 | 450.43 | 12.11 | 439.28 |
| | 7/19/2021 | 473.38 | 22.99 | 450.39 | 15.06 | 442.23 |
| | 8/23/2021 | 473.38 | 23.48 | 449.90 | 3.49 | 430.66 |
| | 9/30/2021 | 473.38 | 23.87 | 449.51 | 2.49 | 429.66 |
| | 10/27/2021 | 473.38 | 23.90 | 449.48 | 13.08 | 440.25 |
| | 11/29/2021 | 473.38 | 23.33 | 450.05 | 5.17 | 432.34 |
| | 12/30/2021 | 473.38 | 22.95 | 450.43 | 6.68 | 433.85 |
| | 1/6/2022 | 473.38 | 22.77 | 450.61 | 6.45 | 433.62 |
| | 2/7/2022 | 473.38 | 22.03 | 451.35 | 4.4 | 431.57 |
| | 3/1/2022 | 473.38 | 21.74 | 451.64 | 16.04 | 443.21 |
| | 4/22/2022 | 473.38 | 22.03 | 451.35 | NA | NA |
| | 5/24/2022 | 473.38 | 22.36 | 451.02 | 11.42 | 438.59 |
| | 6/6/2022 | 473.38 | 22.65 | 450.73 | 8.21 | 435.38 |
| | 7/25/2022 | 473.38 | 23.29 | 450.09 | 5.36 | 432.53 |
| | 8/29/2022 | 473.38 | 23.84 | 449.54 | 2.55 | 429.72 |
| | 9/28/2022 | 473.38 | 24.13 | 449.25 | 2.37 | 429.54 |
| | 10/26/2022 | 473.38 | 24.28 | 449.10 | 4.36 | 431.53 |
| | 11/14/2022 | 473.38 | 24.15 | 449.23 | 3.2 | 430.37 |
| | 12/28/2022 | 473.38 | 22.41 | 450.97 | NA | NA |
| | 1/24/2023 | 473.38 | 21.68 | 451.70 | 7.29 | 434.46 |
| | 2/20/2023 | 473.38 | 21.36 | 452.02 | 7.6 | 434.77 |
| | 3/28/2023 | 473.38 | 21.07 | 452.31 | 14.9 | 442.07 |
| | 4/25/2023 | 473.38 | 21.53 | 451.85 | 9.4 | 436.57 |
| | 5/15/2023 | 473.38 | 21.88 | 451.50 | 8.78 | 435.95 |
| | 6/26/2023 | 473.38 | 22.87 | 450.51 | 2.42 | 429.59 |
| | 7/25/2023 | 473.38 | 22.99 | 450.39 | 3.67 | 430.84 |
| | 8/28/2023 | 473.38 | 23.12 | 450.26 | 3.26 | 430.43 |
| | 9/28/2023 | 473.38 | 23.50 | 449.88 | 3.35 | 430.52 |
| | 10/27/2023 | 473.38 | 23.88 | 449.50 | 3.98 | 431.15 |
| | 11/6/2023 | 473.38 | 23.88 | 449.50 | 3.65 | 430.82 |
| | 12/21/2023 | 473.38 | 22.72 | 450.66 | 6.12 | 433.29 |
| | 1/24/2024 | 473.38 | 21.70 | 451.68 | 12.92 | 440.09 |
| | 2/19/2024 | 473.38 | 21.51 | 451.87 | 12.74 | 439.91 |
| | 3/26/2024 | 473.38 | 21.67 | 451.71 | 10.10 | 437.27 |
| | 4/12/2024 | 473.38 | 21.51 | 451.87 | 16.79 | 443.96 |
| | 5/15/2024 | 472.95 | 21.30 | 451.65 | 15.9 | 443.07 |
| | 6/17/2024 | 472.95 | 22.10 | 450.85 | 12.03 | 439.2 |
| | 7/25/2024 | 472.95 | 22.60 | 450.35 | 12.63 | 439.8 |
| | 8/21/2024 | 472.95 | 22.92 | 450.03 | 11.76 | 438.93 |
| | 9/9/2024 | 472.95 | 22.72 | 450.23 | 11.82 | 438.99 |
| | 10/29/2024 | 472.95 | 23.80 | 449.15 | 2.16 | 429.33 |
| | 11/18/2024 | 472.95 | 23.27 | 449.68 | 4.14 | 431.31 |
| | 12/10/2024 | 472.95 | 23.56 | 449.39 | 2.8 | 429.97 |

Table 5. Groundwater Elevations for CCR Permit Wells and Piezometers - Midwest Generation, LLC, Powerton Station, Pekin, IL

| Well ID | Date | Top of Casing Elevation (ft above MSL) | Depth to Groundwater (ft below TOC) | Groundwater Elevation (ft above MSL) | Illinois River Gage Reading* (ft above datum) | Illinois River Gage Reading* (ft above MSL) |
|---|---|---|---|---|---|---|
| MW-14 down-gradient | 2/22/2021 | 470.79 | 25.43 | 445.36 | 6.21 | 433.38 |
| | 4/7/2021 | 470.79 | 24.46 | 446.33 | 10.23 | 437.4 |
| | 5/10/2021 | 470.79 | 24.86 | 445.93 | 10.71 | 437.88 |
| | 6/2/2021 | 470.79 | 24.20 | 446.59 | 10.7 | 437.87 |
| | 6/28/2021 | 470.79 | 24.45 | 446.34 | 12.11 | 439.28 |
| | 7/19/2021 | 470.79 | 24.04 | 446.75 | 15.06 | 442.23 |
| | 8/23/2021 | 470.79 | 24.58 | 446.21 | 3.49 | 430.66 |
| | 9/30/2021 | 470.79 | 25.35 | 445.44 | 2.49 | 429.66 |
| | 10/25/2021 | 470.79 | 25.41 | 445.38 | 13.08 | 440.25 |
| | 11/29/2021 | 470.79 | 24.68 | 446.11 | 5.17 | 432.34 |
| | 12/30/2021 | 470.79 | 25.05 | 445.74 | 6.68 | 433.85 |
| | 1/6/2022 | 470.90 | 22.02 | 448.88 | 6.45 | 433.62 |
| | 2/7/2022 | 470.90 | 25.64 | 445.26 | 4.4 | 431.57 |
| | 3/1/2022 | 470.90 | 25.36 | 445.54 | 16.04 | 443.21 |
| | 4/22/2022 | 470.90 | 23.82 | 447.08 | NA | NA |
| | 5/24/2022 | 470.90 | 24.08 | 446.82 | 11.42 | 438.59 |
| | 6/6/2022 | 470.90 | 24.10 | 446.80 | 8.21 | 435.38 |
| | 7/25/2022 | 470.90 | 25.07 | 445.83 | 5.36 | 432.53 |
| | 8/29/2022 | 470.90 | 28.30 | 442.60 | 2.55 | 429.72 |
| | 9/28/2022 | 470.90 | 30.29 | 440.61 | 2.37 | 429.54 |
| | 10/26/2022 | 470.90 | 31.23 | 439.67 | 4.36 | 431.53 |
| | 11/14/2022 | 470.90 | 31.58 | 439.32 | 3.2 | 430.37 |
| | 12/28/2022 | 470.90 | 32.05 | 438.85 | NA | NA |
| | 1/24/2023 | 470.90 | 31.48 | 439.42 | 7.29 | 434.46 |
| | 2/20/2023 | 470.90 | 30.91 | 439.99 | 7.6 | 434.77 |
| | 3/28/2023 | 470.90 | 25.14 | 445.76 | 14.9 | 442.07 |
| | 4/25/2023 | 470.90 | 24.56 | 446.34 | 9.4 | 436.57 |
| | 5/15/2023 | 470.90 | 24.41 | 446.49 | 8.78 | 435.95 |
| | 6/26/2023 | 470.90 | 25.18 | 445.72 | 2.42 | 429.59 |
| | 7/25/2023 | 470.90 | 25.61 | 445.29 | 3.67 | 430.84 |
| | 8/28/2023 | 470.90 | 29.02 | 441.88 | 3.26 | 430.43 |
| | 9/28/2023 | 470.90 | 31.94 | 438.96 | 3.35 | 430.52 |
| | 10/27/2023 | 470.90 | 31.18 | 439.72 | 3.98 | 431.15 |
| | 11/6/2023 | 470.90 | 31.26 | 439.64 | 3.65 | 430.82 |
| | 12/21/2023 | 470.90 | 31.63 | 439.27 | 6.12 | 433.29 |
| | 1/24/2024 | 470.90 | 30.33 | 440.57 | 12.92 | 440.09 |
| | 2/19/2024 | 470.90 | 24.73 | 446.17 | 12.74 | 439.91 |
| | 3/26/2024 | 470.90 | 24.81 | 446.09 | 10.1 | 437.27 |
| | 4/12/2024 | 470.90 | 24.62 | 446.28 | 16.79 | 443.96 |
| | 5/15/2024 | 470.90 | 23.72 | 447.18 | 15.9 | 443.07 |
| | 6/17/2024 | 470.90 | 24.07 | 446.83 | 12.03 | 439.2 |
| | 7/25/2024 | 470.90 | 24.40 | 446.50 | 12.63 | 439.8 |
| | 8/21/2024 | 470.90 | 24.56 | 446.34 | 11.76 | 438.93 |
| | 9/9/2024 | 470.90 | 24.85 | 446.05 | 11.82 | 438.99 |
| | 10/29/2024 | 470.90 | 25.74 | 445.16 | 2.16 | 429.33 |
| | 11/18/2024 | 470.90 | 25.91 | 444.99 | 4.14 | 431.31 |
| | 12/10/2024 | 470.90 | 25.77 | 445.13 | 2.8 | 429.97 |
| MW-15 down-gradient | 11/16/2015 | 471.37 | 25.33 | 446.04 | 4.38 | 431.55 |
| | 2/22/2016 | 471.37 | 22.91 | 448.46 | 7.97 | 435.14 |
| | 5/16/2016 | 471.37 | 24.71 | 446.66 | 14.53 | 441.7 |
| | 8/15/2016 | 471.37 | 23.45 | 447.92 | 7.11 | 434.28 |
| | 11/14/2016 | 471.37 | 23.94 | 447.43 | 6.35 | 433.52 |
| | 2/13/2017 | 471.37 | 23.73 | 447.64 | NA | NA |
| | 5/1/2017 | 471.37 | 23.27 | 448.10 | 17.09 | 444.26 |
| | 6/20/2017 | 471.37 | 22.86 | 448.51 | 11.93 | 439.1 |
| | 8/29/2017 | 471.37 | 23.13 | 448.24 | 3.86 | 431.03 |
| | 11/10/2017 | 471.37 | 25.13 | 446.24 | 6.89 | 434.06 |
| | 5/17/2018 | 471.37 | 23.85 | 447.52 | 9.93 | 437.1 |
| | 8/9/2018 | 471.37 | 23.96 | 447.41 | 2.13 | 429.3 |
| | 10/31/2018 | 471.37 | 24.55 | 446.82 | 4.21 | 431.38 |
| | 4/29/2019 | 471.37 | 23.57 | 447.80 | 14.04 | 441.21 |
| | 11/11/2019 | 471.37 | 23.79 | 447.58 | 15.92 | 443.09 |
| | 4/27/2020 | 471.37 | 23.95 | 447.42 | 12.64 | 439.81 |
| | 12/7/2020 | 471.37 | 25.01 | 446.36 | 2.97 | 430.14 |
| | 2/22/2021 | 471.37 | 27.74 | 443.63 | 6.21 | 433.38 |
| | 4/7/2021 | 471.37 | 24.44 | 446.93 | 10.23 | 437.4 |
| | 5/10/2021 | 471.37 | 24.62 | 446.75 | 10.71 | 437.88 |
| | 6/2/2021 | 471.37 | 24.12 | 447.25 | 10.7 | 437.87 |
| | 6/28/2021 | 471.37 | 24.19 | 447.18 | 12.11 | 439.28 |
| | 7/19/2021 | 471.37 | 24.01 | 447.36 | 15.06 | 442.23 |
| | 8/23/2021 | 471.37 | 24.38 | 446.99 | 3.49 | 430.66 |
| | 9/30/2021 | 471.37 | 24.91 | 446.46 | 2.49 | 429.66 |
| | 4/22/2022 | 471.37 | 24.18 | 447.19 | NA | NA |
| | 5/24/2022 | 471.37 | 24.27 | 447.10 | 11.42 | 438.59 |
| | 6/6/2022 | 471.37 | 24.29 | 447.08 | 8.21 | 435.38 |
| | 7/25/2022 | 471.37 | 25.05 | 446.32 | 5.36 | 432.53 |
| | 8/29/2022 | 471.37 | 25.45 | 445.92 | 2.55 | 429.72 |
| | 9/28/2022 | 471.37 | 25.54 | 445.83 | 2.37 | 429.54 |
| | 10/26/2022 | 471.37 | 26.00 | 445.37 | 4.36 | 431.53 |
| | 11/14/2022 | 471.37 | 26.14 | 445.23 | 3.2 | 430.37 |
| | 12/28/2022 | 471.37 | 27.84 | 443.53 | NA | NA |
| | 1/24/2023 | 471.37 | 25.26 | 446.11 | 7.29 | 434.46 |
| | 2/20/2023 | 471.37 | 25.24 | 446.13 | 7.6 | 434.77 |
| | 3/28/2023 | 471.37 | 24.81 | 446.56 | 14.9 | 442.07 |
| | 4/25/2023 | 471.37 | 24.56 | 446.81 | 9.4 | 436.57 |
| | 5/15/2023 | 471.37 | 24.64 | 446.73 | 8.78 | 435.95 |
| | 6/26/2023 | 471.37 | 25.18 | 446.19 | 2.42 | 429.59 |
| | 7/25/2023 | 471.37 | 25.53 | 445.84 | 3.67 | 430.84 |
| | 8/28/2023 | 471.37 | 25.60 | 445.77 | 3.26 | 430.43 |
| | 9/28/2023 | 471.37 | 25.78 | 445.59 | 3.35 | 430.52 |
| | 10/27/2023 | 471.37 | 26.00 | 445.37 | 3.98 | 431.15 |
| | 11/6/2023 | 471.37 | 26.04 | 445.33 | 3.65 | 430.82 |
| | 12/21/2023 | 471.37 | 25.86 | 445.51 | 6.12 | 433.29 |
| | 1/24/2024 | 471.37 | 25.19 | 446.18 | 12.92 | 440.09 |
| | 2/19/2024 | 471.37 | 24.52 | 446.85 | 12.74 | 439.91 |
| | 3/26/2024 | 471.37 | 24.44 | 446.93 | 10.10 | 437.27 |
| | 4/12/2024 | 471.37 | 24.35 | 447.02 | 16.79 | 443.96 |
| | 5/15/2024 | 471.37 | 23.89 | 447.48 | 15.9 | 443.07 |
| | 6/17/2024 | 471.37 | 24.08 | 447.29 | 12.03 | 439.2 |
| | 7/25/2024 | 471.37 | 24.23 | 447.14 | 12.63 | 439.8 |
| | 8/21/2024 | 471.37 | 24.28 | 447.09 | 11.76 | 438.93 |
| | 9/9/2024 | 471.37 | 24.48 | 446.89 | 11.82 | 438.99 |
| | 10/29/2024 | 471.37 | 25.12 | 446.25 | 2.16 | 429.33 |
| | 11/18/2024 | 471.37 | 25.01 | 446.36 | 4.14 | 431.31 |
| | 12/10/2024 | 471.37 | 25.13 | 446.24 | 2.8 | 429.97 |

Table 5. Groundwater Elevations for CCR Permit Wells and Piezometers - Midwest Generation, LLC, Powerton Station, Pekin, IL

| Well ID | Date | Top of Casing Elevation (ft above MSL) | Depth to Groundwater (ft below TOC) | Groundwater Elevation (ft above MSL) | Illinois River Gage Reading* (ft above datum) | Illinois River Gage Reading* (ft above MSL) |
|---|---|---|---|---|---|---|
| MW-17 down-gradient | 11/16/2015 | 467.75 | 26.92 | 440.83 | 4.38 | 431.55 |
| | 2/22/2016 | 467.75 | 19.86 | 447.89 | 7.97 | 435.14 |
| | 5/16/2016 | 467.75 | 20.42 | 447.33 | 14.53 | 441.7 |
| | 8/15/2016 | 467.75 | 21.61 | 446.14 | 7.11 | 434.28 |
| | 11/14/2016 | 467.75 | 21.39 | 446.36 | 6.35 | 433.52 |
| | 2/13/2017 | 467.75 | 19.66 | 448.09 | NA | NA |
| | 5/1/2017 | 467.75 | 18.78 | 448.97 | 17.09 | 444.26 |
| | 6/20/2017 | 467.75 | 19.42 | 448.33 | 11.93 | 439.1 |
| | 8/29/2017 | 467.75 | 22.68 | 445.07 | 3.86 | 431.03 |
| | 11/6/2017 | 467.75 | 24.66 | 443.09 | 6.89 | 434.06 |
| | 5/14/2018 | 467.75 | 19.79 | 447.96 | 9.93 | 437.1 |
| | 8/6/2018 | 467.75 | 21.03 | 446.72 | 2.13 | 429.3 |
| | 10/29/2018 | 467.75 | 21.98 | 445.77 | 4.21 | 431.38 |
| | 4/29/2019 | 467.75 | 18.75 | 449.00 | 14.04 | 441.21 |
| | 11/11/2019 | 467.75 | 19.60 | 448.15 | 15.92 | 443.09 |
| | 4/27/2020 | 467.75 | 19.15 | 448.60 | 12.64 | 439.81 |
| | 12/7/2020 | 467.75 | 24.12 | 443.63 | 2.97 | 430.14 |
| | 2/22/2021 | 467.75 | 20.22 | 447.53 | 6.21 | 433.38 |
| | 4/7/2021 | 467.75 | 19.69 | 448.06 | 10.23 | 437.4 |
| | 5/10/2021 | 467.75 | 20.00 | 447.75 | 10.71 | 437.88 |
| | 6/2/2021 | 467.75 | 19.65 | 448.10 | 10.7 | 437.87 |
| | 6/28/2021 | 467.75 | 19.98 | 447.77 | 12.11 | 439.28 |
| | 7/19/2021 | 467.75 | 19.57 | 448.18 | 15.06 | 442.23 |
| | 8/23/2021 | 467.75 | 20.15 | 447.60 | 3.49 | 430.66 |
| | 9/30/2021 | 467.75 | 23.25 | 444.50 | 2.49 | 429.66 |
| | 10/28/2021 | 467.75 | 23.35 | 444.40 | 13.08 | 440.25 |
| | 11/29/2021 | 467.75 | 20.64 | 447.11 | 5.17 | 432.34 |
| | 12/30/2021 | 467.75 | 22.61 | 445.14 | 6.68 | 433.85 |
| | 1/6/2022 | 467.75 | 23.19 | 444.56 | 6.45 | 433.62 |
| | 2/7/2022 | 467.75 | 22.03 | 445.72 | 4.4 | 431.57 |
| | 3/1/2022 | 467.75 | 19.97 | 447.78 | 16.04 | 443.21 |
| | 4/22/2022 | 467.75 | 19.36 | 448.39 | NA | NA |
| | 5/24/2022 | 467.75 | 19.38 | 448.37 | 11.42 | 438.59 |
| | 6/6/2022 | 467.75 | 19.45 | 448.30 | 8.21 | 435.38 |
| | 7/25/2022 | 467.75 | 20.39 | 447.36 | 5.36 | 432.53 |
| | 8/29/2022 | 467.75 | 23.75 | 444.00 | 2.55 | 429.72 |
| | 9/28/2022 | 467.75 | 25.38 | 442.37 | 2.37 | 429.54 |
| | 10/26/2022 | 467.75 | 27.49 | 440.26 | 4.36 | 431.53 |
| | 11/14/2022 | 467.75 | 27.73 | 440.02 | 3.2 | 430.37 |
| | 12/28/2022 | 467.75 | 27.47 | 440.28 | NA | NA |
| | 1/24/2023 | 467.75 | 23.08 | 444.67 | 7.29 | 434.46 |
| | 2/20/2023 | 467.75 | 20.29 | 447.46 | 7.6 | 434.77 |
| | 3/28/2023 | 467.75 | 19.43 | 448.32 | 14.9 | 442.07 |
| | 4/25/2023 | 467.75 | 19.31 | 448.44 | 9.4 | 436.57 |
| | 5/15/2023 | 467.75 | 19.60 | 448.15 | 8.78 | 435.95 |
| | 6/26/2023 | 467.75 | 20.42 | 447.33 | 2.42 | 429.59 |
| | 7/25/2023 | 467.75 | 21.26 | 446.49 | 3.67 | 430.84 |
| | 8/28/2023 | 467.75 | 21.13 | 446.62 | 3.26 | 430.43 |
| | 9/28/2023 | 467.75 | 23.65 | 444.10 | 3.35 | 430.52 |
| | 10/27/2023 | 467.75 | 24.26 | 443.49 | 3.98 | 431.15 |
| | 11/6/2023 | 467.75 | 24.42 | 443.33 | 3.65 | 430.82 |
| | 12/21/2023 | 467.75 | 24.85 | 442.90 | 6.12 | 433.29 |
| | 1/24/2024 | 467.75 | 20.92 | 446.83 | 12.92 | 440.09 |
| | 2/19/2024 | 467.75 | 19.49 | 448.26 | 12.74 | 439.91 |
| | 3/26/2024 | 467.75 | 19.69 | 448.06 | 10.10 | 437.27 |
| | 4/12/2024 | 467.75 | 19.48 | 448.27 | 16.79 | 443.96 |
| | 5/15/2024 | 467.75 | 19.04 | 448.71 | 15.9 | 443.07 |
| | 6/17/2024 | 467.75 | 19.42 | 448.33 | 12.03 | 439.2 |
| | 7/25/2024 | 467.75 | 19.95 | 447.80 | 12.63 | 439.8 |
| | 8/21/2024 | 467.75 | 20.29 | 447.46 | 11.76 | 438.93 |
| | 9/9/2024 | 467.75 | 20.75 | 447.00 | 11.82 | 438.99 |
| | 10/29/2024 | 467.75 | 24.40 | 443.35 | 2.16 | 429.33 |
| | 11/18/2024 | 467.75 | 25.00 | 442.75 | 4.14 | 431.31 |
| | 12/10/2024 | 467.75 | 25.21 | 442.54 | 2.8 | 429.97 |
| MW-18 down-gradient | 11/16/2015 | 469.28 | 28.42 | 440.86 | 4.38 | 431.55 |
| | 2/22/2016 | 469.28 | 27.96 | 441.32 | 7.97 | 435.14 |
| | 5/16/2016 | 469.28 | 25.57 | 443.71 | 14.53 | 441.7 |
| | 8/15/2016 | 469.28 | 27.86 | 441.42 | 7.11 | 434.28 |
| | 11/14/2016 | 469.28 | 27.39 | 441.89 | 6.35 | 433.52 |
| | 2/13/2017 | 469.28 | 25.06 | 444.22 | NA | NA |
| | 5/1/2017 | 469.28 | 22.49 | 446.79 | 17.09 | 444.26 |
| | 6/20/2017 | 469.28 | 24.97 | 444.31 | 11.93 | 439.1 |
| | 8/28/2017 | 469.28 | 27.30 | 441.98 | 3.86 | 431.03 |
| | 11/6/2017 | 469.28 | 26.33 | 442.95 | 6.89 | 434.06 |
| | 5/14/2018 | 469.28 | 24.65 | 444.63 | 9.93 | 437.1 |
| | 8/6/2018 | 469.28 | 25.67 | 443.61 | 2.13 | 429.3 |
| | 10/29/2018 | 469.28 | 25.79 | 443.49 | 4.21 | 431.38 |
| | 4/29/2019 | 469.28 | 23.00 | 446.28 | 14.04 | 441.21 |
| | 11/11/2019 | 469.28 | 23.94 | 445.34 | 15.92 | 443.09 |
| | 4/27/2020 | 469.28 | 23.97 | 445.31 | 12.64 | 439.81 |
| | 12/7/2020 | 469.28 | 27.82 | 441.46 | 2.97 | 430.14 |
| | 2/22/2021 | 469.28 | 26.69 | 442.59 | 6.21 | 433.38 |
| | 4/7/2021 | 469.28 | 24.94 | 444.34 | 10.23 | 437.4 |
| | 5/10/2021 | 469.28 | 25.96 | 443.32 | 10.71 | 437.88 |
| | 6/2/2021 | 469.28 | 24.70 | 444.58 | 10.7 | 437.87 |
| | 6/28/2021 | 469.28 | 25.60 | 443.68 | 12.11 | 439.28 |
| | 7/19/2021 | 469.28 | 23.50 | 445.78 | 15.06 | 442.23 |
| | 8/23/2021 | 469.28 | 27.35 | 441.93 | 3.49 | 430.66 |
| | 9/30/2021 | 469.28 | 29.70 | 439.58 | 2.49 | 429.66 |
| | 10/25/2021 | 469.28 | 27.35 | 441.93 | 13.08 | 440.25 |
| | 11/29/2021 | 469.28 | 26.81 | 442.47 | 5.17 | 432.34 |
| | 12/30/2021 | 469.28 | 27.14 | 442.14 | 6.68 | 433.85 |
| | 1/6/2022 | 469.28 | 26.57 | 442.71 | 6.45 | 433.62 |
| | 2/7/2022 | 469.28 | 27.83 | 441.45 | 4.4 | 431.57 |
| | 3/1/2022 | 469.28 | 24.45 | 444.83 | 16.04 | 443.21 |
| | 4/22/2022 | 469.28 | 23.77 | 445.51 | NA | NA |
| | 5/24/2022 | 469.28 | 25.04 | 444.24 | 11.42 | 438.59 |
| | 6/6/2022 | 469.28 | 25.71 | 443.57 | 8.21 | 435.38 |
| | 7/25/2022 | 469.28 | 28.62 | 440.66 | 5.36 | 432.53 |
| | 8/29/2022 | 469.28 | 28.66 | 440.62 | 2.55 | 429.72 |
| | 9/28/2022 | 469.28 | 32.19 | 437.09 | 2.37 | 429.54 |
| | 10/26/2022 | 469.28 | 33.26 | 436.02 | 4.36 | 431.53 |
| | 11/14/2022 | 469.28 | 32.95 | 436.33 | 3.2 | 430.37 |
| | 12/28/2022 | 469.28 | 28.44 | 440.84 | NA | NA |
| | 1/24/2023 | 469.28 | 28.65 | 440.63 | 7.29 | 434.46 |
| | 2/20/2023 | 469.28 | 28.44 | 440.84 | 7.6 | 434.77 |
| | 3/28/2023 | 469.28 | 26.78 | 442.50 | 14.9 | 442.07 |
| | 4/25/2023 | 469.28 | 25.35 | 443.93 | 9.4 | 436.57 |
| | 5/15/2023 | 469.28 | 26.46 | 442.82 | 8.78 | 435.95 |
| | 6/26/2023 | 469.28 | 30.11 | 439.17 | 2.42 | 429.59 |
| | 7/25/2023 | 469.28 | 28.93 | 440.35 | 3.67 | 430.84 |
| | 8/28/2023 | 469.28 | 29.87 | 439.41 | 3.26 | 430.43 |
| | 9/28/2023 | 469.28 | 30.02 | 439.26 | 3.35 | 430.52 |
| | 10/27/2023 | 469.28 | 29.29 | 439.99 | 3.98 | 431.15 |
| | 11/6/2023 | 469.28 | 29.54 | 439.74 | 3.65 | 430.82 |
| | 12/21/2023 | 469.28 | 28.68 | 440.60 | 6.12 | 433.29 |
| | 1/24/2024 | 469.28 | 26.47 | 442.81 | 12.92 | 440.09 |
| | 2/19/2024 | 469.28 | 24.46 | 444.82 | 12.74 | 439.91 |
| | 3/26/2024 | 469.28 | 26.46 | 442.82 | 10.10 | 437.27 |
| | 4/12/2024 | 469.28 | 23.98 | 445.30 | 16.79 | 443.96 |
| | 5/15/2024 | 469.28 | 23.36 | 445.92 | 15.9 | 443.07 |
| | 6/17/2024 | 469.28 | 26.71 | 442.57 | 12.03 | 439.2 |
| | 7/25/2024 | 469.28 | 26.15 | 443.13 | 12.63 | 439.8 |
| | 8/21/2024 | 469.28 | 28.88 | 440.40 | 11.76 | 438.93 |
| | 9/9/2024 | 469.28 | 30.78 | 438.50 | 11.82 | 438.99 |
| | 10/29/2024 | 469.28 | 29.16 | 440.12 | 2.16 | 429.33 |
| | 11/18/2024 | 469.28 | 28.83 | 440.45 | 4.14 | 431.31 |
| | 12/10/2024 | 469.28 | 30.18 | 439.10 | 2.8 | 429.97 |

Table 5. Groundwater Elevations for CCR Permit Wells and Piezometers - Midwest Generation, LLC, Powerton Station, Pekin, IL

| Well ID | Date | Top of Casing Elevation (ft above MSL) | Depth to Groundwater (ft below TOC) | Groundwater Elevation (ft above MSL) | Illinois River Gage Reading* (ft above datum) | Illinois River Gage Reading* (ft above MSL) |
|---|---|---|---|---|---|---|
| MW-18A down-gradient | 8/21/2024 | 469.54 | 35.60 | 433.94 | 11.76 | 438.93 |
| | 9/9/2024 | 469.54 | 33.53 | 436.01 | 11.82 | 438.99 |
| | 10/29/2024 | 469.54 | 31.31 | 438.23 | 2.16 | 429.33 |
| | 11/18/2024 | 469.54 | 30.90 | 438.64 | 4.14 | 431.31 |
| | 12/10/2024 | 469.54 | 32.72 | 436.82 | 2.8 | 429.97 |
| MW-22 down-gradient | 4/12/2024 | 457.18 | 12.73 | 444.45 | 16.79 | 443.96 |
| | 5/15/2024 | 457.18 | 11.66 | 445.52 | 15.9 | 443.07 |
| | 6/17/2024 | 457.18 | 16.04 | 441.14 | 12.03 | 439.2 |
| | 7/25/2024 | 457.18 | 16.22 | 440.96 | 12.63 | 439.8 |
| | 8/21/2024 | 457.18 | 19.28 | 437.90 | 11.76 | 438.93 |
| | 9/9/2024 | 457.18 | 21.18 | 436.00 | 11.82 | 438.99 |
| | 10/29/2024 | 457.18 | 21.81 | 435.37 | 2.16 | 429.33 |
| | 11/18/2024 | 457.18 | 21.41 | 435.77 | 4.14 | 431.31 |
| | 12/10/2024 | 457.18 | 21.86 | 435.32 | 2.8 | 429.97 |
| MW-16 down-gradient | 5/12/2015 | 471.56 | 27.02 | 444.54 | 12.15 | 415.02 |
| | 8/18/2015 | 471.56 | 22.83 | 448.73 | 4.62 | 422.55 |
| | 11/16/2015 | 471.56 | 27.63 | 443.93 | 4.38 | 422.79 |
| | 2/24/2016 | 471.55 | 24.12 | 447.43 | 8.02 | 419.15 |
| | 5/16/2016 | 471.55 | 25.09 | 446.46 | 14.53 | 412.64 |
| | 8/15/2016 | 471.55 | 26.42 | 445.13 | 7.11 | 420.06 |
| | 11/14/2016 | 471.55 | 26.27 | 445.28 | 6.35 | 420.82 |
| | 2/13/2017 | 471.55 | 25.38 | 446.17 | NA | NA |
| | 5/2/2017 | 471.55 | 23.30 | 448.25 | 18.50 | 408.67 |
| | 8/23/2017 | 471.55 | 27.11 | 444.44 | 3.86 | 423.31 |
| | 11/9/2017 | 471.55 | 27.49 | 444.06 | 6.70 | 420.47 |
| | 3/8/2018 | 471.55 | 25.56 | 445.99 | 19.72 | 407.45 |
| | 5/17/2018 | 471.55 | 25.64 | 445.91 | 9.93 | 417.24 |
| | 8/8/2018 | 471.55 | 27.19 | 444.36 | 2.13 | 425.04 |
| | 10/31/2018 | 471.55 | 27.72 | 443.83 | 4.76 | 422.41 |
| | 2/25/2019 | 471.55 | 23.60 | 447.95 | 16.74 | 410.43 |
| | 4/29/2019 | 471.55 | 22.97 | 448.58 | 14.04 | 413.13 |
| | 8/26/2019 | 471.55 | 25.50 | 446.05 | 3.61 | 423.56 |
| | 11/11/2019 | 471.55 | 23.10 | 448.45 | 15.92 | 411.25 |
| | 2/24/2020 | 471.55 | 23.59 | 447.96 | 12.84 | 414.33 |
| | 4/27/2020 | 471.55 | 23.50 | 448.05 | 12.64 | 414.53 |
| | 8/10/2020 | 471.55 | 24.70 | 446.85 | 4.38 | 422.79 |
| | 12/7/2020 | 471.55 | 27.69 | 443.86 | 2.97 | 424.2 |
| | 2/22/2021 | 471.55 | 27.60 | 443.95 | 6.21 | 420.96 |
| | 5/10/2021 | 471.55 | 26.25 | 445.30 | 10.71 | 416.46 |
| | 8/23/2021 | 471.55 | 26.20 | 445.35 | 3.49 | 423.68 |
| | 11/29/2021 | 471.55 | 25.71 | 445.84 | 5.17 | 422 |
| | 2/7/2022 | 471.55 | 27.52 | 444.03 | 4.40 | 422.77 |
| | 6/6/2022 | 471.55 | 24.50 | 447.05 | 8.21 | 418.96 |
| | 8/29/2022 | 471.55 | 27.91 | 443.64 | 2.55 | 424.62 |
| | 11/14/2022 | 471.55 | 29.34 | 442.21 | 3.20 | 423.97 |
| | 2/20/2023 | 471.55 | 29.92 | 441.63 | 7.60 | 419.57 |
| | 5/15/2023 | 471.55 | 26.66 | 444.89 | 8.78 | 418.39 |
| | 8/28/2023 | 471.55 | 29.30 | 442.25 | 3.26 | 423.91 |
| | 11/6/2023 | 471.55 | 30.04 | 441.51 | 3.65 | 423.52 |
| | 01/24/24 | 471.56 | 26.24 | 445.32 | 12.92 | 440.09 |
| | 02/19/24 | 471.56 | 20.33 | 451.23 | 12.74 | 439.91 |
| | 03/26/24 | 471.56 | 26.92 | 444.64 | 10.10 | 437.27 |
| | 04/12/24 | 471.56 | 26.24 | 445.32 | 16.79 | 443.96 |
| | 05/15/24 | 471.56 | 24.32 | 447.24 | 15.90 | 443.07 |
| | 06/17/24 | 471.56 | 25.41 | 446.15 | 12.03 | 439.2 |
| | 07/25/24 | 471.56 | 26.50 | 445.06 | 12.63 | 439.8 |
| | 08/21/24 | 471.56 | 27.41 | 444.15 | 11.76 | 438.93 |
| | 09/09/24 | 471.56 | 28.24 | 443.32 | 11.82 | 438.99 |
| | 10/29/24 | 471.56 | 29.54 | 442.02 | 2.16 | 429.33 |
| | 11/18/24 | 471.56 | 29.46 | 442.1 | 4.14 | 431.31 |
| | 12/10/24 | 471.56 | 29.74 | 441.82 | 2.80 | 429.97 |

Table 5. Groundwater Elevations for CCR Permit Wells and Piezometers - Midwest Generation, LLC, Powerton Station, Pekin, IL

| Well ID | Date | Top of Casing Elevation (ft above MSL) | Depth to Groundwater (ft below TOC) | Groundwater Elevation (ft above MSL) | Illinois River Gage Reading* (ft above datum) | Illinois River Gage Reading* (ft above MSL) |
|---|---|---|---|---|---|---|
| MW-01 down-gradient | 11/16/2015 | 465.24 | 26.04 | 439.20 | 4.38 | 431.55 |
| | 2/22/2016 | 465.24 | 21.90 | 443.34 | 7.97 | 435.14 |
| | 5/16/2016 | 465.24 | 21.83 | 443.41 | 14.53 | 441.7 |
| | 8/15/2016 | 465.24 | 23.89 | 441.35 | 7.11 | 434.28 |
| | 11/14/2016 | 465.24 | 23.38 | 441.86 | 6.35 | 433.52 |
| | 2/13/2017 | 465.24 | 21.71 | 443.53 | NA | NA |
| | 5/1/2017 | 465.24 | 18.87 | 446.37 | 17.09 | 444.26 |
| | 6/20/2017 | 465.24 | 21.54 | 443.70 | 11.93 | 439.1 |
| | 8/25/2017 | 465.24 | 24.70 | 440.54 | 3.86 | 431.03 |
| | 11/8/2017 | 465.24 | 24.92 | 440.32 | 6.89 | 434.06 |
| | 5/17/2018 | 465.24 | 22.66 | 442.58 | 9.93 | 437.1 |
| | 8/8/2018 | 465.24 | 26.05 | 439.19 | 2.13 | 429.3 |
| | 10/30/2018 | 465.24 | 24.69 | 440.55 | 4.21 | 431.38 |
| | 4/29/2019 | 465.24 | 20.15 | 445.09 | 14.04 | 441.21 |
| | 11/11/2019 | 465.24 | 19.49 | 445.75 | 15.92 | 443.09 |
| | 4/27/2020 | 465.24 | 20.90 | 444.34 | 12.64 | 439.81 |
| | 12/7/2020 | 465.24 | 25.69 | 439.55 | 2.97 | 430.14 |
| | 2/22/2021 | 465.24 | 25.18 | 440.06 | 6.21 | 433.38 |
| | 4/7/2021 | 465.24 | 22.20 | 443.04 | 10.23 | 437.4 |
| | 5/10/2021 | 465.24 | 23.41 | 441.83 | 10.71 | 437.88 |
| | 6/2/2021 | 465.24 | 22.00 | 443.24 | 10.7 | 437.87 |
| | 6/28/2021 | 465.24 | 23.18 | 442.06 | 12.11 | 439.28 |
| | 7/19/2021 | 465.24 | 20.43 | 444.81 | 15.06 | 442.23 |
| | 8/23/2021 | 465.24 | 24.42 | 440.82 | 3.49 | 430.66 |
| | 9/30/2021 | 465.24 | 26.89 | 438.35 | 2.49 | 429.66 |
| | 10/27/2021 | 465.24 | 24.53 | 440.71 | 13.08 | 440.25 |
| | 11/29/2021 | 465.24 | 23.31 | 441.93 | 5.17 | 432.34 |
| | 12/30/2021 | 465.24 | 24.31 | 440.93 | 6.68 | 433.85 |
| | 1/6/2022 | 465.24 | 24.86 | 440.38 | 6.45 | 433.62 |
| | 2/7/2022 | 465.24 | 25.57 | 439.67 | 4.4 | 431.57 |
| | 3/1/2022 | 465.24 | 21.96 | 443.28 | 16.04 | 443.21 |
| | 4/22/2022 | 465.24 | 20.03 | 445.21 | NA | NA |
| | 5/24/2022 | 465.24 | 21.37 | 443.87 | 11.42 | 438.59 |
| | 6/6/2022 | 465.24 | 22.13 | 443.11 | 8.21 | 435.38 |
| | 7/25/2022 | 465.24 | 25.48 | 439.76 | 5.36 | 432.53 |
| | 8/29/2022 | 465.24 | 27.53 | 437.71 | 2.55 | 429.72 |
| | 9/28/2022 | 465.24 | 28.58 | 436.66 | 2.37 | 429.54 |
| | 10/26/2022 | 465.24 | 29.75 | 435.49 | 4.36 | 431.53 |
| | 11/14/2022 | 465.24 | 29.58 | 435.66 | 3.2 | 430.37 |
| | 12/28/2022 | 465.24 | 26.63 | 438.61 | NA | NA |
| | 1/24/2023 | 465.24 | 27.91 | 437.33 | 7.29 | 434.46 |
| | 2/20/2023 | 465.24 | 26.94 | 438.30 | 7.6 | 434.77 |
| | 3/28/2023 | 465.24 | 21.74 | 443.50 | 14.9 | 442.07 |
| | 4/25/2023 | 465.24 | 22.22 | 443.02 | 9.4 | 436.57 |
| | 5/15/2023 | 465.24 | 23.91 | 441.33 | 8.78 | 435.95 |
| | 6/26/2023 | 465.24 | 28.66 | 436.58 | 2.42 | 429.59 |
| | 7/25/2023 | 465.24 | 28.06 | 437.18 | 3.67 | 430.84 |
| | 8/28/2023 | 465.24 | 28.85 | 436.39 | 3.26 | 430.43 |
| | 9/28/2023 | 465.24 | 29.42 | 435.82 | 3.35 | 430.52 |
| | 10/27/2023 | 465.24 | 29.16 | 436.08 | 3.98 | 431.15 |
| | 11/6/2023 | 465.24 | 29.23 | 436.01 | 3.65 | 430.82 |
| | 12/21/2023 | 465.24 | 29.21 | 436.03 | 6.12 | 433.29 |
| | 1/24/2024 | 465.24 | 25.03 | 440.21 | 12.92 | 440.09 |
| | 2/19/2024 | 465.24 | 21.02 | 444.22 | 12.74 | 439.91 |
| | 3/26/2024 | 465.24 | 23.38 | 441.86 | 10.10 | 437.27 |
| | 4/12/2024 | 465.24 | 20.9 | 444.34 | 16.79 | 443.96 |
| | 5/15/2024 | 465.24 | 19.9 | 445.34 | 15.90 | 443.07 |
| | 6/17/2024 | 465.24 | 23.31 | 441.93 | 12.03 | 439.2 |
| | 7/25/2024 | 465.24 | 23.94 | 441.30 | 12.63 | 439.8 |
| | 8/21/2024 | 465.24 | 26.36 | 438.88 | 11.76 | 438.93 |
| | 9/9/2024 | 465.24 | 28.58 | 436.66 | 11.82 | 438.99 |
| | 10/25/2024 | 465.24 | 29.54 | 435.70 | 2.16 | 429.33 |
| | 11/18/2024 | 465.24 | 29.19 | 436.05 | 4.14 | 431.31 |
| | 12/10/2024 | 465.24 | 29.55 | 435.69 | 2.8 | 429.97 |
| MW-02 down-gradient | 6/20/2017 | 462.60 | 22.04 | 440.56 | 11.93 | 439.1 |
| | 8/23/2017 | 462.60 | 28.42 | 434.18 | 3.86 | 431.03 |
| | 11/7/2017 | 462.60 | 26.08 | 436.52 | 6.89 | 434.06 |
| | 5/17/2018 | 462.60 | 23.26 | 439.34 | 9.93 | 437.1 |
| | 8/7/2018 | 462.60 | 29.70 | 432.90 | 2.13 | 429.3 |
| | 10/30/2018 | 462.60 | 26.77 | 435.83 | 4.21 | 431.38 |
| | 2/25/2019 | 462.60 | 17.02 | 445.58 | 16.74 | 443.91 |
| | 4/29/2019 | 462.60 | 19.26 | 443.34 | 14.04 | 441.21 |
| | 8/26/2019 | 462.60 | 27.45 | 435.15 | 3.61 | 430.78 |
| | 2/24/2020 | 462.60 | 20.35 | 442.25 | 12.84 | 440.01 |
| | 4/27/2020 | 462.60 | 20.51 | 442.09 | 12.64 | 439.81 |
| | 12/7/2020 | 462.60 | 28.71 | 433.89 | 2.97 | 430.14 |
| | 2/22/2021 | 462.60 | 25.90 | 436.70 | 6.21 | 433.38 |
| | 4/7/2021 | 462.60 | 21.95 | 440.65 | 10.23 | 437.4 |
| | 5/10/2021 | 462.60 | 23.01 | 439.59 | 10.71 | 437.88 |
| | 6/2/2021 | 462.60 | 21.74 | 440.86 | 10.7 | 437.87 |
| | 6/28/2021 | 462.60 | 22.24 | 440.36 | 12.11 | 439.28 |
| | 7/19/2021 | 462.60 | 18.66 | 443.94 | 15.06 | 442.23 |
| | 8/23/2021 | 462.60 | 27.95 | 434.65 | 3.49 | 430.66 |
| | 9/30/2021 | 462.60 | 30.44 | 432.16 | 2.49 | 429.66 |
| | 10/27/2021 | 462.60 | 22.74 | 439.86 | 13.08 | **440.25** |
| | 11/29/2021 | 462.60 | 25.57 | 437.03 | 5.17 | 432.34 |
| | 12/30/2021 | 462.60 | 25.11 | 437.49 | 6.68 | 433.85 |
| | 1/6/2022 | 462.60 | 24.96 | 437.64 | 6.45 | 433.62 |
| | 2/7/2022 | 462.60 | 27.47 | 435.13 | 4.4 | 431.57 |
| | 3/1/2022 | 462.60 | 18.06 | 444.54 | 16.04 | 443.21 |
| | 4/22/2022 | 462.60 | 18.63 | 443.97 | NA | NA |
| | 5/24/2022 | 462.60 | 21.44 | 441.16 | 11.42 | 438.59 |
| | 6/6/2022 | 462.60 | 21.14 | 441.46 | 8.21 | 435.38 |
| | 7/25/2022 | 462.60 | 29.28 | 433.32 | 5.36 | 432.53 |
| | 8/29/2022 | 462.60 | 30.28 | 432.32 | 2.55 | 429.72 |
| | 9/28/2022 | 462.60 | 31.81 | 430.79 | 2.37 | 429.54 |
| | 10/26/2022 | 462.60 | 32.84 | 429.76 | 4.36 | **431.53** |
| | 11/14/2022 | 462.60 | 32.03 | 430.57 | 3.2 | 430.37 |
| | 12/28/2022 | 462.60 | 29.35 | 433.25 | NA | NA |
| | 1/24/2023 | 462.60 | 28.25 | 434.35 | 7.29 | **434.46** |
| | 2/20/2023 | 462.60 | 27.12 | 435.48 | 7.6 | 434.77 |
| | 3/28/2023 | 462.60 | 19.46 | 443.14 | 14.9 | 442.07 |
| | 4/25/2023 | 462.60 | 22.50 | 440.10 | 9.4 | 436.57 |
| | 5/15/2023 | 462.60 | 24.26 | 438.34 | 8.78 | 435.95 |
| | 6/26/2023 | 462.60 | 31.12 | 431.48 | 2.42 | 429.59 |
| | 7/25/2023 | 462.60 | 30.16 | 432.44 | 3.67 | 430.84 |
| | 8/28/2023 | 462.60 | 31.25 | 431.35 | 3.26 | 430.43 |
| | 9/27/2023 | 462.60 | 31.46 | 431.14 | 3.35 | 430.52 |
| | 10/27/2023 | 462.60 | 30.02 | 432.58 | 3.98 | 431.15 |
| | 11/6/2023 | 462.60 | 30.52 | 432.08 | 3.65 | 430.82 |
| | 12/21/2023 | 462.60 | 30.44 | 432.16 | 6.12 | **433.29** |
| | 1/24/2024 | 462.60 | 21.69 | 440.91 | 12.92 | 440.09 |
| | 2/19/2024 | 462.60 | 20.33 | 442.27 | 12.74 | 439.91 |
| | 3/26/2024 | 462.60 | 22.91 | 439.69 | 10.10 | 437.27 |
| | 4/12/2024 | 462.60 | 17.11 | 445.49 | 16.79 | 443.96 |
| | 5/15/2024 | 462.60 | 17.68 | 444.92 | 15.90 | 443.07 |
| | 6/17/2024 | 462.60 | 25.79 | 436.81 | 12.03 | 439.2 |
| | 7/25/2024 | 462.60 | 23.13 | 439.47 | 12.63 | 439.8 |
| | 8/21/2024 | 462.60 | 29.40 | 433.20 | 11.76 | 438.93 |
| | 9/9/2024 | 462.60 | 31.72 | 430.88 | 11.82 | 438.99 |
| | 10/29/2024 | 462.60 | 31.04 | 431.56 | 2.16 | 429.33 |
| | 11/18/2024 | 462.60 | 30.77 | 431.83 | 4.14 | 431.31 |
| | 12/10/2024 | 462.60 | 31.32 | 431.28 | 2.8 | 429.97 |

Table 5. Groundwater Elevations for CCR Permit Wells and Piezometers - Midwest Generation, LLC, Powerton Station, Pekin, IL

| Well ID | Date | Top of Casing Elevation (ft above MSL) | Depth to Groundwater (ft below TOC) | Groundwater Elevation (ft above MSL) | Illinois River Gage Reading* (ft above datum) | Illinois River Gage Reading* (ft above MSL) |
|---|---|---|---|---|---|---|
| MW-03 down-gradient | 6/20/2017 | 462.48 | 22.31 | 440.17 | 11.93 | 439.1 |
| | 8/23/2017 | 462.48 | 28.18 | 434.30 | 3.86 | 431.03 |
| | 11/7/2017 | 462.48 | 25.38 | 437.10 | 6.89 | 434.06 |
| | 5/17/2018 | 462.48 | 22.62 | 439.86 | 9.93 | 437.1 |
| | 8/7/2018 | 462.48 | 29.17 | 433.31 | 2.13 | 429.3 |
| | 10/30/2018 | 462.48 | 24.71 | 437.77 | 4.21 | 431.38 |
| | 2/25/2019 | 462.48 | 17.20 | 445.28 | 16.74 | 443.91 |
| | 4/29/2019 | 462.48 | 18.85 | 443.63 | 14.04 | 441.21 |
| | 8/26/2019 | 462.48 | 27.65 | 434.83 | 3.61 | 430.78 |
| | 2/24/2020 | 462.48 | 20.18 | 442.30 | 12.84 | 440.01 |
| | 4/27/2020 | 462.48 | 20.43 | 442.05 | 12.64 | 439.81 |
| | 12/7/2020 | 462.48 | 28.61 | 433.87 | 2.97 | 430.14 |
| | 2/22/2021 | 462.48 | 23.48 | 439.00 | 6.21 | 433.38 |
| | 4/7/2021 | 462.48 | 21.73 | 440.75 | 10.23 | 437.4 |
| | 5/10/2021 | 462.48 | 22.98 | 439.50 | 10.71 | 437.88 |
| | 6/2/2021 | 462.48 | 21.53 | 440.95 | 10.7 | 437.87 |
| | 6/28/2021 | 462.48 | 21.98 | 440.50 | 12.11 | 439.28 |
| | 7/19/2021 | 462.48 | 18.35 | 444.13 | 15.06 | 442.23 |
| | 8/23/2021 | 462.48 | 27.85 | 434.63 | 3.49 | 430.66 |
| | 9/30/2021 | 462.48 | 30.32 | 432.16 | 2.49 | 429.66 |
| | 10/27/2021 | 462.48 | 22.34 | 440.14 | 13.08 | **440.25** |
| | 11/29/2021 | 462.48 | 22.86 | 439.62 | 5.17 | 432.34 |
| | 12/30/2021 | 462.48 | 23.14 | 439.34 | 6.68 | 433.85 |
| | 1/6/2022 | 462.48 | 23.13 | 439.34 | 6.45 | 433.62 |
| | 2/7/2022 | 462.48 | 24.08 | 438.40 | 4.4 | 431.57 |
| | 3/1/2022 | 462.48 | 18.92 | 443.56 | 16.04 | 443.21 |
| | 4/22/2022 | 462.48 | 17.98 | 444.50 | NA | NA |
| | 5/24/2022 | 462.48 | 21.14 | 441.34 | 11.42 | 438.59 |
| | 6/6/2022 | 462.48 | 22.50 | 439.98 | 8.21 | 435.38 |
| | 7/25/2022 | 462.48 | 29.11 | 433.37 | 5.36 | 432.53 |
| | 8/29/2022 | 462.48 | 30.31 | 432.17 | 2.55 | 429.72 |
| | 9/28/2022 | 462.48 | 32.27 | 430.21 | 2.37 | 429.54 |
| | 10/26/2022 | 462.48 | 33.83 | 428.65 | 4.36 | **431.53** |
| | 11/14/2022 | 462.48 | 33.51 | 428.97 | 3.2 | **430.37** |
| | 12/28/2022 | 462.48 | 30.21 | 432.27 | NA | NA |
| | 1/24/2023 | 462.48 | 30.19 | 432.29 | 7.29 | **434.46** |
| | 2/20/2023 | 462.48 | 28.45 | 434.03 | 7.6 | **434.77** |
| | 3/28/2023 | 462.48 | 19.55 | 442.93 | 14.9 | 442.07 |
| | 4/25/2023 | 462.48 | 22.15 | 440.33 | 9.4 | 436.57 |
| | 5/15/2023 | 462.48 | 23.46 | 439.02 | 8.78 | 435.95 |
| | 6/26/2023 | 462.48 | 31.47 | 431.01 | 2.42 | 429.59 |
| | 7/25/2023 | 462.48 | 30.42 | 432.06 | 3.67 | 430.84 |
| | 8/28/2023 | 462.48 | 31.29 | 431.19 | 3.26 | 430.43 |
| | 9/27/2023 | 462.48 | 32.32 | 430.16 | 3.35 | **430.52** |
| | 10/27/2023 | 462.48 | 31.72 | 430.76 | 3.98 | **431.15** |
| | 11/6/2023 | 462.48 | 31.45 | 431.03 | 3.65 | 430.82 |
| | 12/21/2023 | 462.48 | 31.50 | 430.98 | 6.12 | **433.29** |
| | 1/24/2024 | 462.48 | 21.49 | 440.99 | 12.92 | 440.09 |
| | 2/19/2024 | 462.48 | 19.10 | 443.38 | 12.74 | 439.91 |
| | 3/26/2024 | 462.48 | 22.72 | 439.76 | 10.10 | 437.27 |
| | 4/12/2024 | 462.48 | 17.92 | 444.56 | 16.79 | 443.96 |
| | 5/15/2024 | 462.48 | 17.37 | 445.11 | 15.90 | 443.07 |
| | 6/17/2024 | 462.48 | 25.51 | 436.97 | 12.03 | 439.2 |
| | 7/25/2024 | 462.48 | 23.52 | 438.96 | 12.63 | 439.8 |
| | 8/21/2024 | 462.48 | 28.38 | 434.10 | 11.76 | 438.93 |
| | 9/9/2024 | 462.48 | 31.53 | 430.95 | 11.82 | 438.99 |
| | 10/29/2024 | 462.48 | 32.31 | 430.17 | 2.16 | 429.33 |
| | 11/18/2024 | 462.48 | 31.65 | 430.83 | 4.14 | 431.31 |
| | 12/10/2024 | 462.48 | 31.85 | 430.63 | 2.8 | 429.97 |
| MW-04 down-gradient | 6/20/2017 | 460.57 | 22.15 | 438.42 | 11.93 | **439.1** |
| | 8/28/2017 | 460.57 | 28.49 | 432.08 | 3.86 | 431.03 |
| | 11/7/2017 | 460.57 | 25.62 | 434.95 | 6.89 | 434.06 |
| | 5/17/2018 | 460.57 | 24.13 | 436.44 | 9.93 | **437.1** |
| | 8/7/2018 | 460.57 | 29.23 | 431.34 | 2.13 | 429.3 |
| | 10/30/2018 | 460.57 | 26.58 | 433.99 | 4.21 | 431.38 |
| | 2/25/2019 | 460.57 | 15.45 | 445.12 | 16.74 | 443.91 |
| | 4/29/2019 | 460.57 | 15.88 | 444.69 | 14.04 | 441.21 |
| | 8/26/2019 | 460.57 | 27.35 | 433.22 | 3.61 | 430.78 |
| | 2/24/2020 | 460.57 | 19.81 | 440.76 | 12.84 | 440.01 |
| | 4/27/2020 | 460.57 | 19.76 | 440.81 | 12.64 | 439.81 |
| | 12/7/2020 | 460.57 | 28.50 | 432.07 | 2.97 | 430.14 |
| | 2/22/2021 | 460.57 | 26.44 | 434.13 | 6.21 | 433.38 |
| | 4/7/2021 | 460.57 | 21.90 | 438.67 | 10.23 | 437.4 |
| | 5/10/2021 | 460.57 | 23.92 | 436.65 | 10.71 | **437.88** |
| | 6/2/2021 | 460.57 | 21.41 | 439.16 | 10.7 | 437.87 |
| | 6/28/2021 | 460.57 | 22.40 | 438.17 | 12.11 | **439.28** |
| | 7/19/2021 | 460.57 | 17.22 | 443.35 | 15.06 | 442.23 |
| | 8/23/2021 | 460.57 | 27.81 | 432.76 | 3.49 | 430.66 |
| | 9/30/2021 | 460.57 | 30.01 | 430.56 | 2.49 | 429.66 |
| | 10/27/2021 | 460.57 | 22.29 | 438.28 | 13.08 | **440.25** |
| | 11/29/2021 | 460.57 | 25.83 | 434.74 | 5.17 | 432.34 |
| | 12/30/2021 | 460.57 | 25.79 | 434.78 | 6.68 | 433.85 |
| | 1/6/2022 | 460.57 | 25.30 | 435.27 | 6.45 | 433.62 |
| | 2/7/2022 | 460.57 | 27.95 | 432.62 | 4.4 | 431.57 |
| | 3/1/2022 | 460.57 | 16.63 | 443.94 | 16.04 | 443.21 |
| | 4/22/2022 | 460.57 | 16.81 | 443.76 | NA | NA |
| | 5/24/2022 | 460.57 | 20.89 | 439.68 | 11.42 | 438.59 |
| | 6/6/2022 | 460.57 | 22.89 | 437.68 | 8.21 | 435.38 |
| | 7/25/2022 | 460.57 | 29.18 | 431.39 | 5.36 | **432.53** |
| | 8/29/2022 | 460.57 | 29.71 | 430.86 | 2.55 | 429.72 |
| | 9/28/2022 | 460.57 | 31.42 | 429.15 | 2.37 | **429.54** |
| | 10/26/2022 | 460.57 | 32.38 | 428.19 | 4.36 | **431.53** |
| | 11/14/2022 | 460.57 | 32.80 | 427.77 | 3.2 | **430.37** |
| | 12/28/2022 | 460.57 | 29.21 | 431.36 | NA | NA |
| | 1/24/2023 | 460.57 | 27.79 | 432.78 | 7.29 | **434.46** |
| | 2/20/2023 | 460.57 | 26.46 | 434.11 | 7.6 | **434.77** |
| | 3/28/2023 | 460.57 | 17.49 | 443.08 | 14.9 | 442.07 |
| | 4/25/2023 | 460.57 | 22.01 | 438.56 | 9.4 | 436.57 |
| | 5/15/2023 | 460.57 | 24.29 | 436.28 | 8.78 | 435.95 |
| | 6/26/2023 | 460.57 | 30.13 | 430.44 | 2.42 | 429.59 |
| | 7/25/2023 | 460.57 | 29.88 | 430.69 | 3.67 | **430.84** |
| | 8/28/2023 | 460.57 | 30.60 | 429.97 | 3.26 | **430.43** |
| | 9/27/2023 | 460.57 | 30.90 | 429.67 | 3.35 | **430.52** |
| | 10/27/2023 | 460.57 | 28.72 | 431.85 | 3.98 | 431.15 |
| | 11/6/2023 | 460.57 | 29.99 | 430.58 | 3.65 | **430.82** |
| | 12/21/2023 | 460.57 | 30.02 | 430.55 | 6.12 | **433.29** |
| | 1/24/2024 | 460.57 | 21.07 | 439.50 | 12.92 | 440.09 |
| | 2/19/2024 | 460.57 | 18.39 | 442.18 | 12.74 | 439.91 |
| | 3/26/2024 | 460.57 | 22.53 | 438.04 | 10.10 | 437.27 |
| | 4/12/2024 | 460.57 | 15.44 | 445.13 | 16.79 | 443.96 |
| | 5/15/2024 | 460.57 | 15.82 | 444.75 | 15.90 | 443.07 |
| | 6/17/2024 | 460.57 | 25.68 | 434.89 | 12.03 | 439.2 |
| | 7/25/2024 | 460.57 | 23.30 | 437.27 | 12.63 | 439.8 |
| | 8/21/2024 | 460.57 | 29.40 | 431.17 | 11.76 | 438.93 |
| | 9/9/2024 | 460.57 | 31.19 | 429.38 | 11.82 | 438.99 |
| | 10/29/2024 | 460.57 | 29.89 | 430.68 | 2.16 | 429.33 |
| | 11/18/2024 | 460.57 | 29.98 | 430.59 | 4.14 | 431.31 |
| | 12/10/2024 | 460.57 | 30.51 | 430.06 | 2.8 | 429.97 |

Table 5. Groundwater Elevations for CCR Permit Wells and Piezometers - Midwest Generation, LLC, Powerton Station, Pekin, IL

| Well ID | Date | Top of Casing Elevation (ft above MSL) | Depth to Groundwater (ft below TOC) | Groundwater Elevation (ft above MSL) | Illinois River Gage Reading* (ft above datum) | Illinois River Gage Reading* (ft above MSL) |
|---|---|---|---|---|---|---|
| MW-05 down-gradient | 11/16/2015 | 458.58 | 26.39 | 432.19 | 4.38 | 431.55 |
| | 2/22/2016 | 458.66 | 21.12 | 437.54 | 7.97 | 435.14 |
| | 5/16/2016 | 458.66 | 16.58 | 442.08 | 14.53 | 441.7 |
| | 8/15/2016 | 458.66 | 23.59 | 435.07 | 7.11 | 434.28 |
| | 11/14/2016 | 458.66 | 22.72 | 435.94 | 6.35 | 433.52 |
| | 2/13/2017 | 458.66 | 19.13 | 439.53 | NA | NA |
| | 5/1/2017 | 458.66 | 13.09 | 445.57 | 17.09 | 444.26 |
| | 6/20/2017 | 458.66 | 19.43 | 439.15 | 11.93 | 439.1 |
| | 8/28/2017 | 458.66 | 25.38 | 433.20 | 3.86 | 431.03 |
| | 11/7/2017 | 458.66 | 22.91 | 435.67 | 6.89 | 434.06 |
| | 5/17/2018 | 458.66 | 21.54 | 437.04 | 9.93 | **437.1** |
| | 8/7/2018 | 458.66 | 26.17 | 432.41 | 2.13 | 429.3 |
| | 10/30/2018 | 458.66 | 23.97 | 434.61 | 4.21 | 431.38 |
| | 2/25/2019 | 458.66 | 13.21 | 445.45 | 16.74 | 443.91 |
| | 4/29/2019 | 458.66 | 15.40 | 443.26 | 14.04 | 441.21 |
| | 8/26/2019 | 458.66 | 24.35 | 434.31 | 3.61 | 430.78 |
| | 2/24/2020 | 458.66 | 17.25 | 441.41 | 12.84 | 440.01 |
| | 4/27/2020 | 458.66 | 17.41 | 441.25 | 12.64 | 439.81 |
| | 12/7/2020 | 458.66 | 25.65 | 433.01 | 2.97 | 430.14 |
| | 2/22/2021 | 458.66 | 23.82 | 434.84 | 6.21 | 433.38 |
| | 4/7/2021 | 458.66 | 19.40 | 439.26 | 10.23 | 437.4 |
| | 5/10/2021 | 458.66 | 21.38 | 437.28 | 10.71 | **437.88** |
| | 6/2/2021 | 458.66 | 18.99 | 439.67 | 10.7 | 437.87 |
| | 6/28/2021 | 458.66 | 22.20 | 436.46 | 12.11 | **439.28** |
| | 7/19/2021 | 458.66 | 14.98 | 443.68 | 15.06 | 442.23 |
| | 8/23/2021 | 458.66 | 24.85 | 433.81 | 3.49 | 430.66 |
| | 9/30/2021 | 458.66 | 26.98 | 431.68 | 2.49 | 429.66 |
| | 10/27/2021 | 458.66 | 20.00 | 438.66 | 13.08 | **440.25** |
| | 11/29/2021 | 458.66 | 23.13 | 435.53 | 5.17 | 432.34 |
| | 12/30/2021 | 458.66 | 23.20 | 435.46 | 6.68 | 433.85 |
| | 1/6/2022 | 458.66 | 22.80 | 435.86 | 6.45 | 433.62 |
| | 2/7/2022 | 458.66 | 25.22 | 433.44 | 4.4 | 431.57 |
| | 3/1/2022 | 458.66 | 14.52 | 444.14 | 16.04 | 443.21 |
| | 4/22/2022 | 458.66 | 14.59 | 444.07 | NA | NA |
| | 5/24/2022 | 458.66 | 18.32 | 440.34 | 11.42 | 438.59 |
| | 6/6/2022 | 458.66 | 17.06 | 441.60 | 8.21 | 435.38 |
| | 7/25/2022 | 458.66 | 26.02 | 432.64 | 5.36 | 432.53 |
| | 8/29/2022 | 458.66 | 26.70 | 431.96 | 2.55 | 429.72 |
| | 9/28/2022 | 458.66 | 28.10 | 430.56 | 2.37 | 429.54 |
| | 10/26/2022 | 458.66 | 28.96 | 429.70 | 4.36 | **431.53** |
| | 11/14/2022 | 458.66 | 28.44 | 430.22 | 3.2 | **430.37** |
| | 12/28/2022 | 458.66 | 26.04 | 432.62 | NA | NA |
| | 1/24/2023 | 458.66 | 24.93 | 433.73 | 7.29 | **434.46** |
| | 2/20/2023 | 458.66 | 23.72 | 434.94 | 7.6 | 434.77 |
| | 3/28/2023 | 458.66 | 16.49 | 442.17 | 14.9 | 442.07 |
| | 4/25/2023 | 458.66 | 19.50 | 439.16 | 9.4 | 436.57 |
| | 5/15/2023 | 458.66 | 21.71 | 436.95 | 8.78 | 435.95 |
| | 6/26/2023 | 458.66 | 27.11 | 431.55 | 2.42 | 429.59 |
| | 7/25/2023 | 458.66 | 26.76 | 431.90 | 3.67 | 430.84 |
| | 8/28/2023 | 458.66 | 27.46 | 431.20 | 3.26 | 430.43 |
| | 9/27/2023 | 458.66 | 27.73 | 430.93 | 3.35 | 430.52 |
| | 10/27/2023 | 458.66 | 26.00 | 432.66 | 3.98 | 431.15 |
| | 11/6/2023 | 458.66 | 26.98 | 431.68 | 3.65 | 430.82 |
| | 12/21/2023 | 458.66 | 26.91 | 431.75 | 6.12 | **433.29** |
| | 1/24/2024 | 458.66 | 18.87 | 439.79 | 12.92 | 440.09 |
| | 2/19/2024 | 458.66 | 15.88 | 442.78 | 12.74 | 439.91 |
| | 3/26/2024 | 458.66 | 19.99 | 438.67 | 10.10 | 437.27 |
| | 4/12/2024 | 458.66 | 13.35 | 445.31 | 16.79 | 443.96 |
| | 5/15/2024 | 458.66 | 13.73 | 444.93 | 15.90 | 443.07 |
| | 6/17/2024 | 458.66 | 22.64 | 436.02 | 12.03 | 439.2 |
| | 7/25/2024 | 458.66 | 20.59 | 438.07 | 12.63 | 439.8 |
| | 8/21/2024 | 458.66 | 26.17 | 432.49 | 11.76 | 438.93 |
| | 9/9/2024 | 458.66 | 27.95 | 430.71 | 11.82 | 438.99 |
| | 10/29/2024 | 458.66 | 27.05 | 431.61 | 2.16 | 429.33 |
| | 11/18/2024 | 458.66 | 26.98 | 431.68 | 4.14 | 431.31 |
| | 12/10/2024 | 458.66 | 27.51 | 431.15 | 2.8 | 429.97 |
| MW-07 down-gradient | 5/11/2015 | 463.23 | 24.40 | 438.83 | 11.61 | 438.78 |
| | 8/18/2015 | 463.23 | 27.13 | 436.10 | 4.62 | 431.79 |
| | 11/16/2015 | 463.23 | 30.43 | 432.80 | 4.38 | 431.55 |
| | 2/22/2016 | 463.27 | 25.68 | 437.59 | 7.97 | 435.14 |
| | 5/16/2016 | 463.27 | 20.96 | 442.31 | 14.53 | 441.7 |
| | 8/15/2016 | 463.27 | 27.63 | 435.64 | 7.11 | 434.28 |
| | 11/14/2016 | 463.27 | 26.98 | 436.29 | 6.35 | 433.52 |
| | 2/13/2017 | 463.27 | 23.46 | 439.81 | NA | NA |
| | 5/2/2017 | 463.27 | 17.78 | 445.49 | 17.09 | 444.26 |
| | 8/24/2017 | 463.27 | 29.15 | 434.12 | 3.86 | 431.03 |
| | 11/8/2017 | 463.27 | 27.10 | 436.17 | 6.89 | 434.06 |
| | 3/6/2018 | 463.27 | 13.96 | 449.31 | 20.43 | 447.6 |
| | 5/18/2018 | 463.27 | 25.87 | 437.40 | 9.93 | 437.1 |
| | 8/10/2018 | 463.27 | 30.12 | 433.15 | 2.13 | 429.3 |
| | 10/29/2018 | 463.27 | 28.37 | 434.90 | 4.21 | 431.38 |
| | 2/25/2019 | 463.27 | 17.88 | 445.39 | 16.74 | 443.91 |
| | 4/29/2019 | 463.27 | 19.98 | 443.29 | 14.04 | 441.21 |
| | 8/26/2019 | 463.27 | 28.54 | 434.73 | 3.61 | 430.78 |
| | 11/11/2019 | 463.27 | 18.14 | 445.13 | 15.92 | 443.09 |
| | 2/24/2020 | 463.27 | 21.64 | 441.63 | 12.84 | 440.01 |
| | 4/27/2020 | 463.27 | 21.90 | 441.37 | 12.64 | 439.81 |
| | 8/10/2020 | 463.27 | 27.15 | 436.12 | 3.49 | 430.66 |
| | 12/7/2020 | 463.27 | 29.84 | 433.43 | 2.97 | 430.14 |
| | 2/22/2021 | 463.27 | 28.09 | 435.18 | 6.21 | 433.38 |
| | 5/10/2021 | 463.27 | 25.54 | 437.73 | 10.71 | 437.88 |
| | 8/23/2021 | 463.27 | 28.92 | 434.35 | 3.49 | 430.66 |
| | 11/29/2021 | 463.27 | 27.40 | 435.87 | 5.17 | 432.34 |
| | 2/7/2022 | 463.27 | 29.37 | 433.90 | 4.40 | 431.57 |
| | 6/6/2022 | 463.27 | 24.65 | 438.62 | 8.21 | 435.38 |
| | 8/29/2022 | 463.27 | 30.79 | 432.48 | 2.55 | 429.72 |
| | 11/14/2022 | 463.27 | 32.16 | 431.11 | 3.20 | 430.37 |
| | 2/20/2023 | 463.27 | 27.81 | 435.46 | 7.60 | 434.77 |
| | 5/15/2023 | 463.27 | 25.94 | 437.33 | 8.78 | 435.95 |
| | 8/28/2023 | 463.27 | 31.22 | 432.05 | 3.26 | 430.43 |
| | 11/6/2023 | 463.27 | 30.90 | 432.37 | 3.65 | 430.82 |
| | 1/24/2024 | 463.27 | 23.13 | 440.14 | 12.92 | 440.09 |
| | 2/19/2024 | 463.27 | 20.57 | 442.70 | 12.74 | 439.91 |
| | 3/26/2024 | 463.27 | 24.27 | 439.00 | 10.10 | 437.27 |
| | 4/12/2024 | 463.27 | 17.99 | 445.28 | 16.79 | 443.96 |
| | 5/15/2024 | 463.27 | 18.31 | 444.96 | 15.9 | 443.07 |
| | 6/17/2024 | 463.27 | 26.64 | 436.63 | 12.03 | 439.2 |
| | 7/25/2024 | 463.27 | 24.59 | 438.68 | 12.63 | 439.8 |
| | 8/21/2024 | 463.27 | 30.00 | 433.27 | 11.76 | 438.93 |
| | 9/9/2024 | 463.27 | 31.78 | 431.49 | 11.82 | 438.99 |
| | 10/29/2024 | 463.27 | 31.16 | 432.11 | 2.16 | 429.33 |
| | 11/18/2024 | 463.27 | 30.92 | 432.35 | 4.14 | 431.31 |
| | 12/10/2024 | 463.27 | 31.48 | 431.79 | 2.8 | 429.97 |

Table 5. Groundwater Elevations for CCR Permit Wells and Piezometers - Midwest Generation, LLC, Powerton Station, Pekin, IL

| Well ID | Date | Top of Casing Elevation (ft above MSL) | Depth to Groundwater (ft below TOC) | Groundwater Elevation (ft above MSL) | Illinois River Gage Reading* (ft above datum) | Illinois River Gage Reading* (ft above MSL) |
|---|---|---|---|---|---|---|
| MW-09 up-gradient | 11/16/2015 | 469.14 | 26.07 | 443.07 | 4.38 | 431.55 |
| | 2/22/2016 | 469.14 | 22.83 | 446.31 | 7.97 | 435.14 |
| | 5/16/2016 | 469.14 | 23.06 | 446.08 | 14.53 | 441.7 |
| | 8/15/2016 | 469.14 | 24.50 | 444.64 | 7.11 | 434.28 |
| | 11/14/2016 | 469.14 | 24.33 | 444.81 | 6.35 | 433.52 |
| | 2/13/2017 | 469.14 | 23.43 | 445.71 | NA | NA |
| | 5/1/2017 | 469.14 | 20.77 | 448.37 | 17.09 | 444.26 |
| | 6/20/2017 | 469.14 | 22.15 | 446.99 | 11.93 | 439.1 |
| | 8/25/2017 | 469.14 | 24.79 | 444.35 | 3.86 | 431.03 |
| | 11/8/2017 | 469.14 | 25.74 | 443.40 | 6.89 | 434.06 |
| | 5/16/2018 | 469.14 | 23.89 | 445.25 | 9.93 | 437.1 |
| | 8/8/2018 | 469.14 | 25.49 | 443.65 | 2.13 | 429.3 |
| | 11/1/2018 | 469.14 | 26.02 | 443.12 | 4.21 | 431.38 |
| | 4/29/2019 | 469.14 | 21.30 | 447.84 | 14.04 | 441.21 |
| | 11/11/2019 | 469.14 | 21.31 | 447.83 | 15.92 | 443.09 |
| | 4/27/2020 | 469.14 | 21.80 | 447.34 | 12.64 | 439.81 |
| | 12/7/2020 | 469.14 | 26.19 | 442.95 | 2.97 | 430.14 |
| | 2/22/2021 | 469.14 | 26.08 | 443.06 | 6.21 | 433.38 |
| | 4/7/2021 | 469.14 | 23.75 | 445.39 | 10.23 | 437.4 |
| | 5/10/2021 | 469.14 | 24.55 | 444.59 | 10.71 | 437.88 |
| | 6/2/2021 | 469.14 | 23.31 | 445.83 | 10.7 | 437.87 |
| | 6/28/2021 | 469.14 | 24.18 | 444.96 | 12.11 | 439.28 |
| | 7/19/2021 | 469.14 | 22.20 | 446.94 | 15.06 | 442.23 |
| | 8/23/2021 | 469.14 | 24.75 | 444.39 | 3.49 | 430.66 |
| | 9/30/2021 | 469.14 | 26.28 | 442.86 | 2.49 | 429.66 |
| | 10/25/2021 | 469.14 | 25.42 | 443.72 | 13.08 | 440.25 |
| | 11/29/2021 | 469.14 | 24.50 | 444.64 | 5.17 | 432.34 |
| | 12/30/2021 | 469.14 | 25.35 | 443.79 | 6.68 | 433.85 |
| | 1/6/2022 | 469.14 | 28.11 | 441.03 | 6.45 | 433.62 |
| | 2/7/2022 | 469.14 | 26.15 | 442.99 | 4.4 | 431.57 |
| | 3/1/2022 | 469.14 | 23.88 | 445.26 | 16.04 | 443.21 |
| | 4/22/2022 | 469.14 | 21.75 | 447.39 | NA | NA |
| | 5/24/2022 | 469.14 | 22.40 | 446.74 | 11.42 | 438.59 |
| | 6/6/2022 | 469.14 | 22.95 | 446.19 | 8.21 | 435.38 |
| | 7/25/2022 | 469.14 | 25.51 | 443.63 | 5.36 | 432.53 |
| | 8/29/2022 | 469.14 | 26.56 | 442.58 | 2.55 | 429.72 |
| | 9/28/2022 | 469.14 | 27.52 | 441.62 | 2.37 | 429.54 |
| | 10/26/2022 | 469.14 | 28.38 | 440.76 | 4.36 | 431.53 |
| | 11/14/2022 | 469.14 | 28.44 | 440.70 | 3.2 | 430.37 |
| | 12/28/2022 | 469.14 | 27.96 | 441.18 | NA | NA |
| | 1/24/2023 | 469.14 | 27.93 | 441.21 | 7.29 | 434.46 |
| | 2/20/2023 | 469.14 | 27.62 | 441.52 | 7.6 | 434.77 |
| | 3/28/2023 | 469.14 | 24.05 | 445.09 | 14.9 | 442.07 |
| | 4/25/2023 | 469.14 | 23.76 | 445.38 | 9.4 | 436.57 |
| | 5/15/2023 | 469.14 | 24.90 | 444.24 | 8.78 | 435.95 |
| | 6/26/2023 | 469.14 | 27.40 | 441.74 | 2.42 | 429.59 |
| | 7/25/2023 | 469.14 | 27.55 | 441.59 | 3.67 | 430.84 |
| | 8/28/2023 | 469.14 | 28.00 | 441.14 | 3.26 | 430.43 |
| | 9/28/2023 | 469.14 | 28.64 | 440.50 | 3.35 | 430.52 |
| | 10/27/2023 | 469.14 | 28.85 | 440.29 | 3.98 | 431.15 |
| | 11/6/2023 | 469.14 | 28.98 | 440.16 | 3.65 | 430.82 |
| | 12/21/2023 | 469.14 | 29.12 | 440.02 | 6.12 | 433.29 |
| | 1/24/2024 | 469.14 | 26.76 | 442.38 | 12.92 | 440.09 |
| | 2/19/2024 | 469.14 | 23.94 | 445.20 | 12.74 | 439.91 |
| | 3/26/2024 | 469.14 | 24.98 | 444.16 | 10.10 | 437.27 |
| | 4/12/2024 | 469.14 | 23.78 | 445.36 | 16.79 | 443.96 |
| | 5/15/2024 | 469.14 | 22.17 | 446.97 | 15.9 | 443.07 |
| | 6/17/2024 | 469.14 | 23.87 | 445.27 | 12.03 | 439.2 |
| | 7/25/2024 | 469.14 | 24.81 | 444.33 | 12.63 | 439.8 |
| | 8/21/2024 | 469.14 | 26.00 | 443.14 | 11.76 | 438.93 |
| | 9/9/2024 | 469.14 | 27.13 | 442.01 | 11.82 | 438.99 |
| | 10/25/2024 | 469.14 | 28.55 | 440.59 | 2.16 | 429.33 |
| | 11/18/2024 | 469.14 | 28.36 | 440.78 | 4.14 | 431.31 |
| | 12/10/2024 | 469.14 | 28.73 | 440.41 | 2.8 | 429.97 |
| MW-10 down-gradient | 6/22/2017 | 457.31 | 13.46 | 443.85 | NA | NA |
| | 8/24/2017 | 457.31 | 16.39 | 440.92 | 3.79 | 430.96 |
| | 11/9/2017 | 457.31 | 16.86 | 440.45 | 6.7 | 433.87 |
| | 5/16/2018 | 457.31 | 14.88 | 442.43 | 9.67 | 436.84 |
| | 8/8/2018 | 457.31 | 17.88 | 439.43 | 2.13 | 429.3 |
| | 10/30/2018 | 457.31 | 17.04 | 440.27 | 4.21 | 431.38 |
| | 2/25/2019 | 457.31 | 11.28 | 446.03 | 16.74 | 443.91 |
| | 4/29/2019 | 457.31 | 11.88 | 445.43 | 14.04 | 441.21 |
| | 8/26/2019 | 457.31 | 15.89 | 441.42 | 3.61 | 430.78 |
| | 2/24/2020 | 457.31 | 12.64 | 444.67 | 12.84 | 440.01 |
| | 4/27/2020 | 457.31 | 12.75 | 444.56 | 12.64 | 439.81 |
| | 12/7/2020 | 457.31 | 17.80 | 439.51 | 2.97 | 430.14 |
| | 2/22/2021 | 457.31 | 17.25 | 440.06 | 6.21 | 433.38 |
| | 4/7/2021 | 457.31 | 14.21 | 443.10 | 10.23 | 437.4 |
| | 5/10/2021 | 457.31 | 15.58 | 441.73 | 10.71 | 437.88 |
| | 6/2/2021 | 457.31 | 13.98 | 443.33 | 10.7 | 437.87 |
| | 6/28/2021 | 457.31 | 15.28 | 442.03 | 12.11 | 439.28 |
| | 7/19/2021 | 457.31 | 12.30 | 445.01 | 15.06 | 442.23 |
| | 8/23/2021 | 457.31 | 16.61 | 440.70 | 3.49 | 430.66 |
| | 9/30/2021 | 457.31 | 18.67 | 438.64 | 2.49 | 429.66 |
| | 10/25/2021 | 457.31 | 16.23 | 441.08 | 10.56 | 437.73 |
| | 11/29/2021 | 457.31 | 15.52 | 441.79 | 5.17 | 432.34 |
| | 12/30/2021 | 457.31 | 16.50 | 440.81 | 6.68 | 433.85 |
| | 1/6/2022 | 457.31 | 16.82 | 440.49 | 6.45 | 433.62 |
| | 2/7/2022 | 457.31 | 17.70 | 439.61 | 4.4 | 431.57 |
| | 3/1/2022 | 457.31 | 13.77 | 443.54 | 16.04 | 443.21 |
| | 4/22/2022 | 457.31 | 11.80 | 445.51 | NA | NA |
| | 5/24/2022 | 457.31 | 13.20 | 444.11 | 11.42 | 438.59 |
| | 6/6/2022 | 457.31 | 14.07 | 443.24 | 8.21 | 435.38 |
| | 7/25/2022 | 457.31 | 17.53 | 439.78 | 5.36 | 432.53 |
| | 8/29/2022 | 457.31 | 19.08 | 438.23 | 2.55 | 429.72 |
| | 9/28/2022 | 457.31 | 20.16 | 437.15 | 2.37 | 429.54 |
| | 10/26/2022 | 457.31 | 21.23 | 436.08 | 4.36 | 431.53 |
| | 11/14/2022 | 457.31 | 21.06 | 436.25 | 3.2 | 430.37 |
| | 12/28/2022 | 457.31 | 18.71 | 438.60 | NA | NA |
| | 1/24/2023 | 457.31 | 19.50 | 437.81 | 7.29 | 434.46 |
| | 2/20/2023 | 457.31 | 18.65 | 438.66 | 7.6 | 434.77 |
| | 3/28/2023 | 457.31 | 13.66 | 443.65 | 14.9 | 442.07 |
| | 4/25/2023 | 457.31 | 14.14 | 443.17 | 9.4 | 436.57 |
| | 5/15/2023 | 457.31 | 15.90 | 441.41 | 8.78 | 435.95 |
| | 6/26/2023 | 457.31 | 20.10 | 437.21 | 2.42 | 429.59 |
| | 7/25/2023 | 457.31 | 19.69 | 437.62 | 3.67 | 430.84 |
| | 8/28/2023 | 457.31 | 20.38 | 436.93 | 3.26 | 430.43 |
| | 9/28/2023 | 457.31 | 20.93 | 436.38 | 3.35 | 430.52 |
| | 10/27/2023 | 457.31 | 20.67 | 436.64 | 3.98 | 431.15 |
| | 11/6/2023 | 457.31 | 20.81 | 436.50 | 3.65 | 430.82 |
| | 12/21/2023 | 457.31 | 20.80 | 436.51 | 6.12 | 433.29 |
| | 1/24/2024 | 457.31 | 16.73 | 440.58 | 12.92 | 440.09 |
| | 2/19/2024 | 457.31 | 13.05 | 444.26 | 12.74 | 439.91 |
| | 3/26/2024 | 457.31 | 15.33 | 441.98 | 10.10 | 437.27 |
| | 4/12/2024 | 457.31 | 12.93 | 444.38 | 16.79 | 443.96 |
| | 5/15/2024 | 457.31 | 11.78 | 445.53 | 15.90 | 443.07 |
| | 6/17/2024 | 457.31 | 15.18 | 442.13 | 12.03 | 439.2 |
| | 7/25/2024 | 457.31 | 15.78 | 441.53 | 12.63 | 439.8 |
| | 8/21/2024 | 457.31 | 18.15 | 439.16 | 11.76 | 438.93 |
| | 9/9/2024 | 457.31 | 18.15 | 439.16 | 11.82 | 438.99 |
| | 10/29/2024 | 457.31 | 20.96 | 436.35 | 2.16 | 429.33 |
| | 11/18/2024 | 457.31 | 20.64 | 436.67 | 4.14 | 431.31 |
| | 12/10/2024 | 457.31 | 21.01 | 436.30 | 2.8 | 429.97 |

Table 5. Groundwater Elevations for CCR Permit Wells and Piezometers - Midwest Generation, LLC, Powerton Station, Pekin, IL

| Well ID | Date | Top of Casing Elevation (ft above MSL) | Depth to Groundwater (ft below TOC) | Groundwater Elevation (ft above MSL) | Illinois River Gage Reading* (ft above datum) | Illinois River Gage Reading* (ft above MSL) |
|---|---|---|---|---|---|---|
| MW-11 down-gradient | 11/16/2015 | 471.62 | 31.67 | 439.95 | 4.38 | 431.55 |
| | 2/22/2016 | 471.62 | 28.34 | 443.28 | 7.97 | 435.14 |
| | 5/16/2016 | 471.62 | 27.11 | 444.51 | 14.53 | 441.7 |
| | 8/15/2016 | 471.62 | 29.64 | 441.98 | 7.11 | 434.28 |
| | 11/14/2016 | 471.62 | 29.19 | 442.43 | 6.35 | 433.52 |
| | 2/13/2017 | 471.62 | 27.49 | 444.13 | NA | NA |
| | 5/1/2017 | 471.62 | 24.34 | 447.28 | 17.09 | 444.26 |
| | 6/20/2017 | 471.62 | 26.94 | 444.68 | 11.93 | 439.1 |
| | 8/29/2017 | 471.62 | 30.42 | 441.20 | 3.86 | 431.03 |
| | 11/9/2017 | 471.62 | 30.27 | 441.35 | 6.89 | 434.06 |
| | 5/16/2018 | 471.62 | 28.58 | 443.04 | 9.93 | 437.1 |
| | 8/9/2018 | 471.62 | 31.04 | 440.58 | 2.13 | 429.3 |
| | 11/1/2018 | 471.62 | 30.82 | 440.80 | 4.21 | 431.38 |
| | 4/29/2019 | 471.62 | 25.38 | 446.24 | 14.04 | 441.21 |
| | 11/11/2019 | 471.62 | 24.88 | 446.74 | 15.92 | 443.09 |
| | 4/27/2020 | 471.62 | 26.35 | 445.27 | 12.64 | 439.81 |
| | 12/7/2020 | 471.62 | 31.35 | 440.27 | 2.97 | 430.14 |
| | 2/22/2021 | 471.62 | 30.78 | 440.84 | 6.21 | 433.38 |
| | 4/7/2021 | 471.62 | 27.85 | 443.77 | 10.23 | 437.4 |
| | 5/10/2021 | 471.62 | 29.19 | 442.43 | 10.71 | 437.88 |
| | 6/2/2021 | 471.62 | 27.57 | 444.05 | 10.7 | 437.87 |
| | 6/28/2021 | 471.62 | 28.84 | 442.78 | 12.11 | 439.28 |
| | 7/19/2021 | 471.62 | 25.82 | 445.80 | 15.06 | 442.23 |
| | 8/23/2021 | 471.62 | 30.10 | 441.52 | 3.49 | 430.66 |
| | 9/30/2021 | 471.62 | 31.78 | 439.84 | 2.49 | 429.66 |
| | 10/25/2021 | 471.62 | 30.12 | 441.50 | 13.08 | 440.25 |
| | 11/29/2021 | 471.62 | 29.40 | 442.22 | 5.17 | 432.34 |
| | 12/30/2021 | 471.62 | 30.22 | 441.40 | 6.68 | 433.85 |
| | 1/6/2022 | 471.62 | 30.09 | 441.53 | 6.45 | 433.62 |
| | 2/7/2022 | 471.62 | 31.19 | 440.43 | 4.4 | 431.57 |
| | 3/1/2022 | 471.62 | 26.92 | 444.70 | 16.04 | 443.21 |
| | 4/22/2022 | 471.62 | 25.43 | 446.19 | NA | NA |
| | 5/24/2022 | 471.62 | 26.69 | 444.93 | 11.42 | 438.59 |
| | 6/6/2022 | 471.62 | 27.55 | 444.07 | 8.21 | 435.38 |
| | 7/25/2022 | 471.62 | 30.77 | 440.85 | 5.36 | 432.53 |
| | 8/29/2022 | 471.62 | 31.95 | 439.67 | 2.55 | 429.72 |
| | 9/28/2022 | 471.62 | 32.99 | 438.63 | 2.37 | 429.54 |
| | 10/26/2022 | 471.62 | 33.86 | 437.76 | 4.36 | 431.53 |
| | 11/14/2022 | 471.62 | 33.79 | 437.83 | 3.2 | 430.37 |
| | 12/28/2022 | 471.62 | 32.41 | 439.21 | NA | NA |
| | 1/24/2023 | 471.62 | 32.57 | 439.05 | 7.29 | 434.46 |
| | 2/20/2023 | 471.62 | 31.91 | 439.71 | 7.6 | 434.77 |
| | 3/28/2023 | 471.62 | 27.32 | 444.30 | 14.9 | 442.07 |
| | 4/25/2023 | 471.62 | 27.80 | 443.82 | 9.4 | 436.57 |
| | 5/15/2023 | 471.62 | 29.25 | 442.37 | 8.78 | 435.95 |
| | 6/26/2023 | 471.62 | 32.81 | 438.81 | 2.42 | 429.59 |
| | 7/25/2023 | 471.62 | 32.55 | 439.07 | 3.67 | 430.84 |
| | 8/28/2023 | 471.62 | 33.15 | 438.47 | 3.26 | 430.43 |
| | 9/28/2023 | 471.62 | 33.76 | 437.86 | 3.35 | 430.52 |
| | 10/27/2023 | 471.62 | 33.68 | 437.94 | 3.98 | 431.15 |
| | 11/6/2023 | 471.62 | 33.79 | 437.83 | 3.65 | 430.82 |
| | 12/21/2023 | 471.62 | 33.81 | 437.81 | 6.12 | 433.29 |
| | 1/24/2024 | 471.62 | 29.99 | 441.63 | 12.92 | 440.09 |
| | 2/19/2024 | 471.62 | 27.13 | 444.49 | 12.74 | 439.91 |
| | 3/26/2024 | 471.62 | 28.92 | 442.70 | 10.10 | 437.27 |
| | 4/12/2024 | 471.62 | 26.50 | 445.12 | 16.79 | 443.96 |
| | 5/15/2024 | 471.62 | 25.47 | 446.15 | 15.9 | 443.07 |
| | 6/17/2024 | 471.62 | 28.61 | 443.01 | 12.03 | 439.2 |
| | 7/25/2024 | 471.62 | 29.00 | 442.62 | 12.63 | 439.8 |
| | 8/21/2024 | 471.62 | 31.19 | 440.43 | 11.76 | 438.93 |
| | 9/9/2024 | 471.62 | 32.69 | 438.93 | 11.82 | 438.99 |
| | 10/25/2024 | 471.62 | 33.73 | 437.89 | 2.16 | 429.33 |
| | 11/18/2024 | 471.62 | 33.43 | 438.19 | 4.14 | 431.31 |
| | 12/10/2024 | 471.62 | 33.79 | 437.83 | 2.8 | 429.97 |
| MW-19 up-gradient | 11/14/2016 | 465.07 | 22.65 | 442.42 | 6.35 | 433.52 |
| | 2/13/2017 | 465.07 | 21.27 | 443.80 | NA | NA |
| | 5/1/2017 | 465.07 | 18.39 | 446.68 | 17.09 | 444.26 |
| | 6/20/2017 | 465.07 | 20.44 | 444.63 | 11.93 | 439.1 |
| | 8/28/2017 | 465.07 | 23.60 | 441.47 | 3.86 | 431.03 |
| | 11/9/2017 | 465.07 | 23.80 | 441.27 | 6.89 | 434.06 |
| | 5/14/2018 | 465.07 | 22.08 | 442.99 | 9.93 | 437.1 |
| | 8/6/2018 | 465.07 | 24.14 | 440.93 | 2.13 | 429.3 |
| | 10/29/2018 | 465.07 | 24.31 | 440.76 | 4.21 | 431.38 |
| | 4/29/2019 | 465.07 | 19.12 | 445.95 | 14.04 | 441.21 |
| | 11/11/2019 | 465.07 | 18.80 | 446.27 | 15.92 | 443.09 |
| | 4/27/2020 | 465.07 | 19.94 | 445.13 | 12.64 | 439.81 |
| | 12/7/2020 | 465.07 | 24.63 | 440.44 | 2.97 | 430.14 |
| | 2/22/2021 | 465.07 | 24.23 | 440.84 | 6.21 | 433.38 |
| | 4/7/2021 | 465.07 | 21.60 | 443.47 | 10.23 | 437.4 |
| | 5/10/2021 | 465.07 | 22.75 | 442.32 | 10.71 | 437.88 |
| | 6/2/2021 | 465.07 | 21.24 | 443.83 | 10.7 | 437.87 |
| | 6/28/2021 | 465.07 | 22.41 | 442.66 | 12.11 | 439.28 |
| | 7/19/2021 | 465.07 | 19.75 | 445.32 | 15.06 | 442.23 |
| | 8/23/2021 | 465.07 | 23.31 | 441.76 | 3.49 | 430.66 |
| | 9/30/2021 | 465.07 | 24.85 | 440.22 | 2.49 | 429.66 |
| | 10/27/2021 | 465.07 | 23.36 | 441.71 | 13.08 | 440.25 |
| | 11/29/2021 | 465.07 | 22.75 | 442.32 | 5.17 | 432.34 |
| | 12/30/2021 | 465.07 | 23.65 | 441.42 | 6.68 | 433.85 |
| | 1/6/2022 | 465.07 | 24.04 | 441.03 | 6.45 | 433.62 |
| | 2/7/2022 | 465.07 | 24.46 | 440.61 | 4.4 | 431.57 |
| | 3/1/2022 | 465.07 | 21.05 | 444.02 | 16.04 | 443.21 |
| | 4/22/2022 | 465.07 | 19.34 | 445.73 | NA | NA |
| | 5/24/2022 | 465.07 | 20.34 | 444.73 | 11.42 | 438.59 |
| | 6/6/2022 | 465.07 | 21.05 | 444.02 | 8.21 | 435.38 |
| | 7/25/2022 | 465.07 | 23.98 | 441.09 | 5.36 | 432.53 |
| | 8/29/2022 | 465.07 | 25.08 | 439.99 | 2.55 | 429.72 |
| | 9/28/2022 | 465.07 | 25.97 | 439.10 | 2.37 | 429.54 |
| | 10/26/2022 | 465.07 | 26.81 | 438.26 | 4.36 | 431.53 |
| | 11/14/2022 | 465.07 | 26.79 | 438.28 | 3.2 | 430.37 |
| | 12/28/2022 | 465.07 | 25.95 | 439.12 | NA | NA |
| | 1/24/2023 | 465.07 | 25.93 | 439.14 | 7.29 | 434.46 |
| | 2/20/2023 | 465.07 | 25.29 | 439.78 | 7.6 | 434.77 |
| | 3/28/2023 | 465.07 | 21.40 | 443.67 | 14.9 | 442.07 |
| | 4/25/2023 | 465.07 | 21.52 | 443.55 | 9.4 | 436.57 |
| | 5/15/2023 | 465.07 | 22.94 | 442.13 | 8.78 | 435.95 |
| | 6/26/2023 | 465.07 | 25.76 | 439.31 | 2.42 | 429.59 |
| | 7/25/2023 | 465.07 | 25.69 | 439.38 | 3.67 | 430.84 |
| | 8/28/2023 | 465.07 | 26.24 | 438.83 | 3.26 | 430.43 |
| | 9/28/2023 | 465.07 | 26.86 | 438.21 | 3.35 | 430.52 |
| | 10/27/2023 | 465.07 | 26.97 | 438.10 | 3.98 | 431.15 |
| | 11/6/2023 | 465.07 | 27.07 | 438.00 | 3.65 | 430.82 |
| | 12/21/2023 | 465.07 | 27.13 | 437.94 | 6.12 | 433.29 |
| | 1/24/2024 | 465.07 | 23.97 | 441.10 | 12.92 | 440.09 |
| | 2/19/2024 | 465.07 | 21.30 | 443.77 | 12.74 | 439.91 |
| | 3/26/2024 | 465.07 | 22.70 | 442.37 | 10.10 | 437.27 |
| | 4/12/2024 | 465.07 | 20.81 | 444.26 | 16.79 | 443.96 |
| | 5/15/2024 | 465.07 | 19.52 | 445.55 | 15.9 | 443.07 |
| | 6/17/2024 | 465.07 | 22.02 | 443.05 | 12.03 | 439.2 |
| | 7/25/2024 | 465.07 | 22.62 | 442.45 | 12.63 | 439.8 |
| | 8/21/2024 | 465.07 | 24.35 | 440.72 | 11.76 | 438.93 |
| | 9/9/2024 | 465.07 | 25.57 | 439.50 | 11.82 | 438.99 |
| | 10/25/2024 | 465.07 | 26.82 | 438.25 | 2.16 | 429.33 |
| | 11/18/2024 | 465.07 | 26.52 | 438.55 | 4.14 | 431.31 |
| | 12/10/2024 | 465.07 | 26.92 | 438.15 | 2.8 | 429.97 |

Table 5. Groundwater Elevations for CCR Permit Wells and Piezometers - Midwest Generation, LLC, Powerton Station, Pekin, IL

| Well ID | Date | Top of Casing Elevation (ft above MSL) | Depth to Groundwater (ft below TOC) | Groundwater Elevation (ft above MSL) | Illinois River Gage Reading* (ft above datum) | Illinois River Gage Reading* (ft above MSL) |
|---|---|---|---|---|---|---|
| MW-21D down-gradient | 4/12/2024 | 469.93 | 24.76 | 445.17 | 16.79 | 443.96 |
| | 5/15/2024 | 469.93 | 24.08 | 445.85 | 15.9 | 443.07 |
| | 6/17/2024 | 469.93 | 29.56 | 440.37 | 12.03 | 439.2 |
| | 7/25/2024 | 469.93 | 28.95 | 440.98 | 12.63 | 439.8 |
| | 8/21/2024 | 469.93 | 32.47 | 437.46 | 11.76 | 438.93 |
| | 9/9/2024 | 469.93 | 33.80 | 436.13 | 11.82 | 438.99 |
| | 10/29/2024 | 469.93 | 34.34 | 435.59 | 2.16 | 429.33 |
| | 11/18/2024 | 469.93 | 33.84 | 436.09 | 4.14 | 431.31 |
| | 12/10/2024 | 469.93 | 34.23 | 435.70 | 2.8 | 429.97 |
| MW-23 up-gradient | 4/12/2024 | 465.03 | 19.83 | 445.20 | 16.79 | 443.96 |
| | 5/15/2024 | 465.03 | 18.60 | 446.43 | 15.9 | 443.07 |
| | 6/17/2024 | 465.03 | 21.23 | 443.80 | 12.03 | 439.2 |
| | 7/25/2024 | 465.03 | 21.83 | 443.20 | 12.63 | 439.8 |
| | 8/21/2024 | 465.03 | 23.66 | 441.37 | 11.76 | 438.93 |
| | 9/9/2024 | 465.03 | 25.05 | 439.98 | 11.82 | 438.99 |
| | 10/25/2024 | 465.03 | 26.24 | 438.79 | 2.16 | 429.33 |
| | 11/18/2024 | 465.03 | 25.96 | 439.07 | 4.14 | 431.31 |
| | 12/10/2024 | 465.03 | 23.36 | 441.67 | 2.8 | 429.97 |
| P-2 up-gradient | 04/12/24 | 463.65 | 19.12 | 444.53 | 16.79 | 443.96 |
| | 5/15/2024 | 463.65 | 17.33 | 446.32 | 15.9 | 443.07 |
| | 6/17/2024 | 463.65 | 18.23 | 445.42 | 12.03 | 439.2 |
| | 7/25/2024 | 463.65 | 19.73 | 443.92 | 12.63 | 439.8 |
| | 8/21/2024 | 463.65 | 20.17 | 443.48 | 11.76 | 438.93 |
| | 9/9/2024 | 463.65 | 20.75 | 442.90 | 11.82 | 438.99 |
| | 10/29/2024 | 463.65 | 21.68 | 441.97 | 2.16 | 429.33 |
| | 11/18/2024 | 463.65 | 21.63 | 442.02 | 4.14 | 431.31 |
| | 12/10/2024 | 463.65 | 21.70 | 441.95 | 2.8 | 429.97 |
| P-1 down-gradient | 4/12/2024 | 460.08 | 13.62 | 446.46 | 16.79 | 443.96 |
| | 5/15/2024 | 460.08 | 13.08 | 447.00 | 15.9 | 443.07 |
| | 6/17/2024 | 460.08 | 13.46 | 446.62 | 12.03 | 439.2 |
| | 7/25/2024 | 460.08 | 13.22 | 446.86 | 12.63 | 439.8 |
| | 8/21/2024 | 460.08 | 13.17 | 446.91 | 11.76 | 438.93 |
| | 9/9/2024 | 460.08 | 15.32 | 444.76 | 11.82 | 438.99 |
| | 10/29/2024 | 460.08 | 13.44 | 446.64 | 2.16 | 429.33 |
| | 11/18/2024 | 460.08 | 13.42 | 446.66 | 4.14 | 431.31 |
| | 12/10/2024 | 460.08 | 13.98 | 446.10 | 2.8 | 429.97 |

Notes: Elevations are in feet above mean sea level and depths are in feet below top of casing.
* - Data obtained from USGS Kingston Mine Gage
MSL - Mean Sea Level
TOC - Top of Casing
**BOLD**- River elevation above groundwater elevation
Dry - Less than 6" of water in well.
NA - Data not available.

Table 6. Groundwater Flow Direction and Estimated Seepage Velocity/Flow Rate - Powerton Generation Station CCR Permit

| DATE | Screened Unit | Groundwater Flow Direction | $K_{avg}$ (ft/sec)* | Average Hydraulic Gradient (ft/ft) | Porosity (unitless)** | Estimated Seepage Velocity (ft/day) |
|---|---|---|---|---|---|---|
| 1/24/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0242 | 0.4 | 0.0017 |
| 1/24/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0009 | 0.35 | 0.30 |
| 2/19/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0206 | 0.4 | 0.0015 |
| 2/19/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0016 | 0.35 | 0.55 |
| 3/26/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0215 | 0.4 | 0.0015 |
| 3/26/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0021 | 0.35 | 0.72 |
| 4/12/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0242 | 0.4 | 0.0017 |
| 4/12/2024 | Silt/clay | Easterly | 3.280E-07 | 0.0461 | 0.4 | 0.0033 |
| 4/12/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0011 | 0.35 | 0.38 |
| 5/15/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0242 | 0.4 | 0.0017 |
| 5/15/2024 | Silt/clay | Easterly | 3.280E-07 | 0.0195 | 0.4 | 0.0014 |
| 5/15/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0010 | 0.35 | 0.36 |
| 6/17/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0371 | 0.4 | 0.0026 |
| 6/17/2024 | Silt/clay | Easterly | 3.280E-07 | 0.0623 | 0.4 | 0.0044 |
| 6/17/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0036 | 0.35 | 1.23 |
| 7/25/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0403 | 0.4 | 0.0029 |
| 7/25/2024 | Silt/clay | Easterly | 3.280E-07 | 0.0348 | 0.4 | 0.0025 |
| 7/25/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0026 | 0.35 | 0.89 |
| 8/21/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0436 | 0.4 | 0.0031 |
| 8/21/2024 | Silt/clay | Easterly | 3.280E-07 | 0.0671 | 0.4 | 0.0048 |
| 8/21/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0040 | 0.35 | 1.37 |
| 9/9/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0496 | 0.4 | 0.0035 |
| 9/9/2024 | Silt/clay | Easterly | 3.280E-07 | 0.0598 | 0.4 | 0.0042 |
| 9/9/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0049 | 0.35 | 1.67 |
| 10/29/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0379 | 0.4 | 0.0027 |
| 10/29/2024 | Silt/clay | Easterly | 3.280E-07 | 0.0655 | 0.4 | 0.0046 |
| 10/29/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0039 | 0.35 | 1.36 |
| 11/18/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0358 | 0.4 | 0.0025 |
| 11/18/2024 | Silt/clay | Easterly | 3.280E-07 | 0.0658 | 0.4 | 0.0047 |
| 11/18/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0039 | 0.35 | 1.36 |
| 12/10/2024 | Silt/clay | Westerly | 3.280E-07 | 0.0345 | 0.4 | 0.0024 |
| 12/10/2024 | Silt/clay | Easterly | 3.280E-07 | 0.0632 | 0.4 | 0.0045 |
| 12/10/2024 | Sandy | Northeasterly - Northwesterly | 1.390E-03 | 0.0051 | 0.35 | 1.75 |

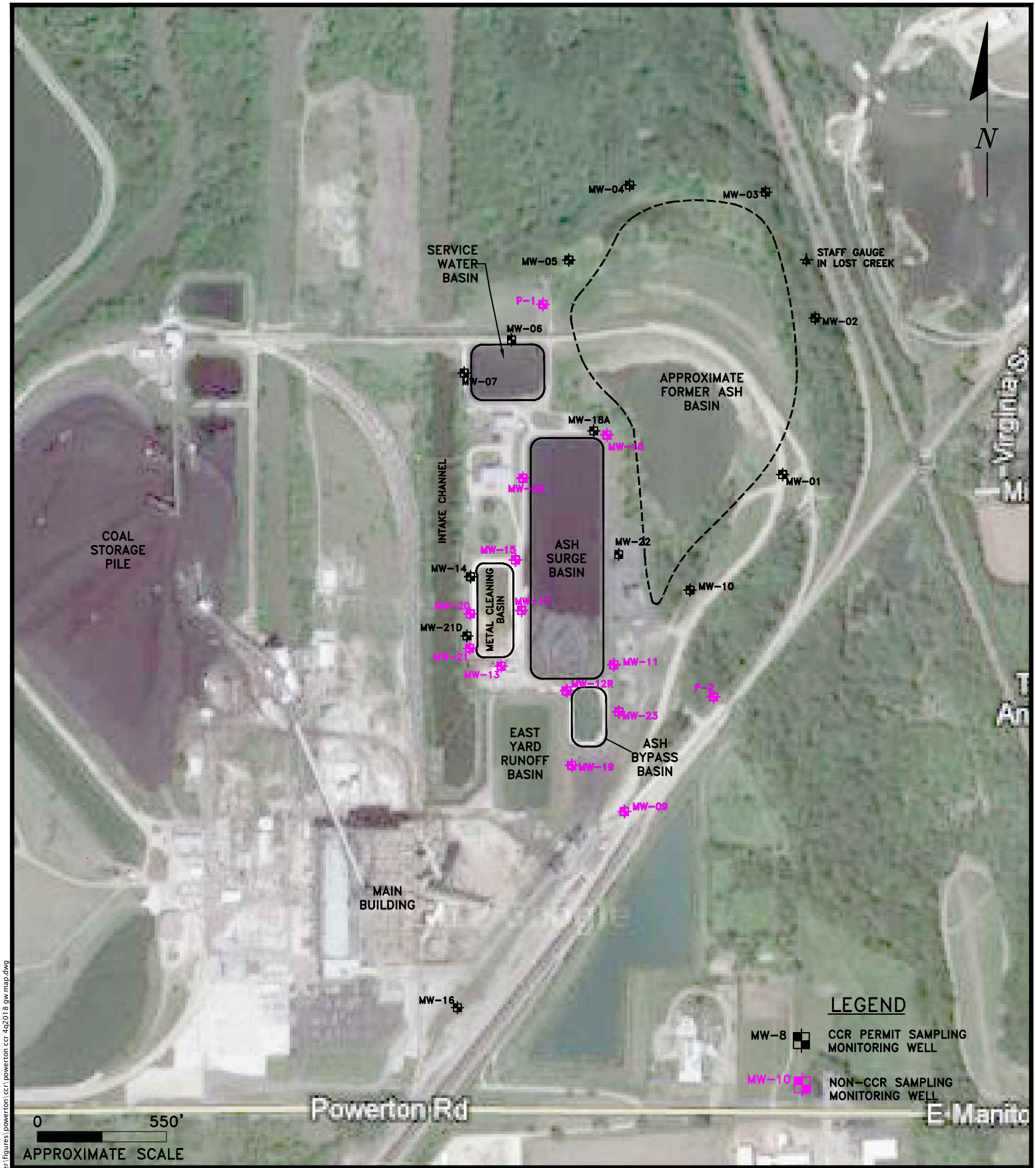
* $K_{avg}$ - K values from re-evaluation of slug test data as part of groundwater modeling in support of Application for Construction Permit per Illinois State CCR Rule.
Average hydraulic conductivity for silt/clay unit (feet/second) from Groundwater, Freeze and Cherry, 1979.

** - Porosity estimates from Applied Hydrogeology, Fetter, 1980.

Table 7. CCR Groundwater Sample Collection Summary for 2024 - Powerton Generating Station CCR Permit

| Well ID | Number of Groundwater Sampling Events | Dates of Groundwater Sampling Events | Detection Monitoring (D) versus Assessment Monitoring (A) |
|---|---|---|---|
| MW-01 (Downgradient) | 2 | 9/11/2024 | D |
| | | 11/21/2024 | D |
| MW-02 (Downgradient) | 2 | 9/11/2024 | D |
| | | 11/21/2024 | D |
| MW-03 (Downgradient) | 2 | 9/10/2024 | D |
| | | 11/19/2024 | D |
| MW-04 (Downgradient) | 2 | 9/10/2024 | D |
| | | 11/19/2024 | D |
| MW-05 (Downgradient) | 2 | 9/10/2024 | D |
| | | 11/19/2024 | D |
| MW-06 (Downgradient) | 2 | 9/10/2024 | D |
| | | 11/19/2024 | D |
| MW-07 (Downgradient) | 2 | 9/11/2024 | D |
| | | 11/21/2024 | D |
| MW-10 (Downgradient) | 2 | 9/11/2024 | D |
| | | 11/21/2024 | D |
| MW-14 (Downgradient) | 2 | 9/10/2024 | D |
| | | 11/19/2024 | D |
| MW-16 (Upgradient) | 2 | 9/10/2024 | D |
| | | 11/19/2024 | D |
| MW-18A (Downgradient) | 2 | 9/10/2024 | D |
| | | 11/19/2024 | D |
| MW-06 (Downgradient) | 2 | 9/10/2024 | D |
| | | 11/19/2024 | D |
| MW-21D (Downgradient) | 2 | 9/10/2024 | D |
| | | 11/19/2024 | D |
| MW-22 (Downgradient) | 2 | 9/10/2024 | D |
| | | 11/19/2024 | D |

# FIGURES

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ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG

KPRG and Associates, inc.

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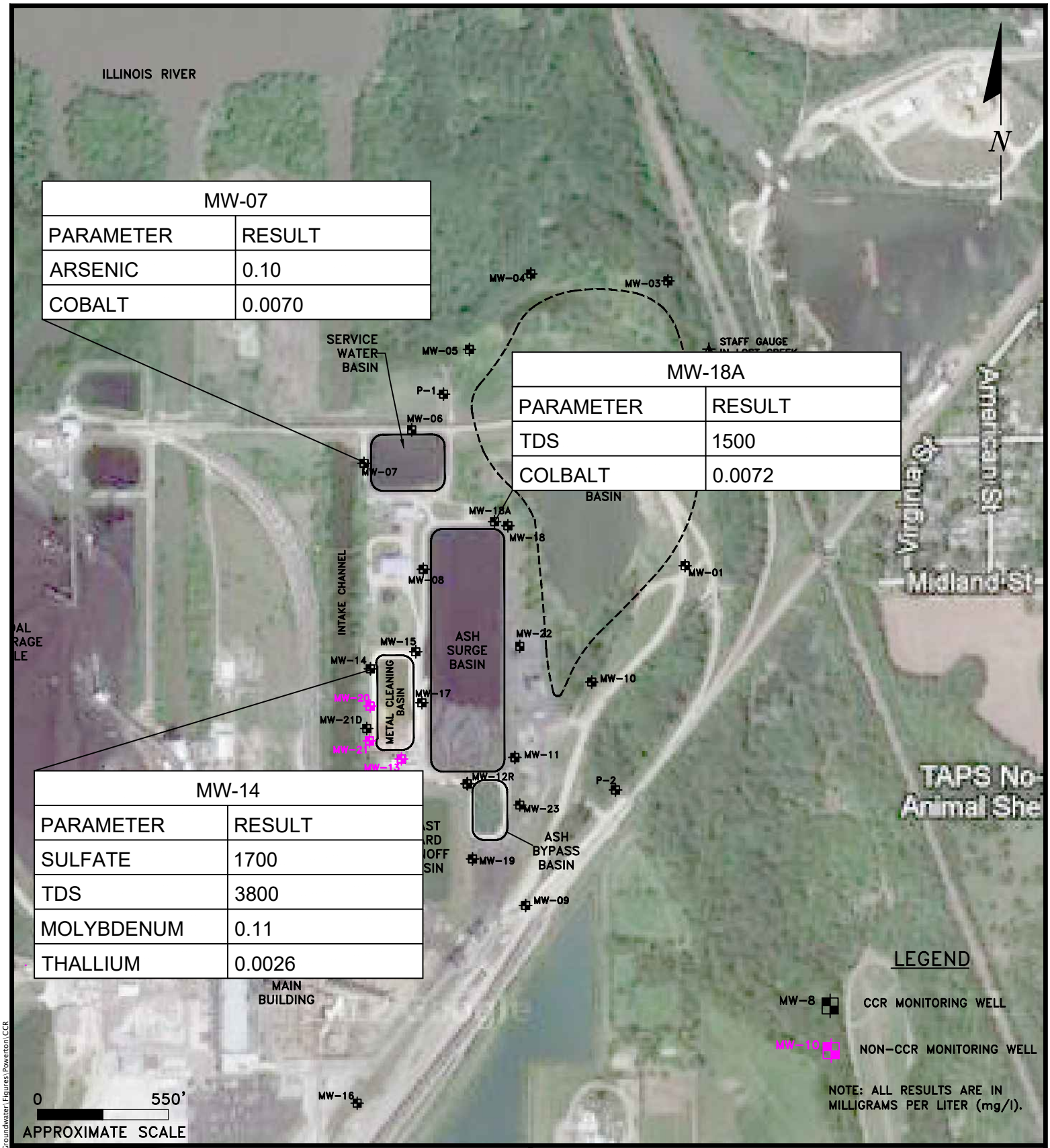
14665 West Lisbon Road, Suite 1A Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

# CCR PERMIT MONITORING WELL SITE MAP

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: January 14, 2025

KPRG Project No. 12313.1 | FIGURE 1

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# 4Q2024 AREAL DISTRIBUTION MAP OF PARAMETERS ABOVE GWPSs

POWERTON STATION CCR PERMIT
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: January 16, 2025

KPRG Project No. 12313.1 | Figure 2

W:\Projects\Midwest Generation\12313 Ash Pond Groundwater\Figures\Powerton\CCR

# ATTACHMENT 1
## New Well/Piezometer Installation Boring Logs and Well Construction Summaries

KPRG
ENVIRONMENTAL CONSULTATION & REMEDIATION
KPRG and Associates, Inc.

Midwest Generation, LLC
Powerton Station
Pekin, IL

Project # 12313.1

# GEOLOGIC LOG OF MW-21D

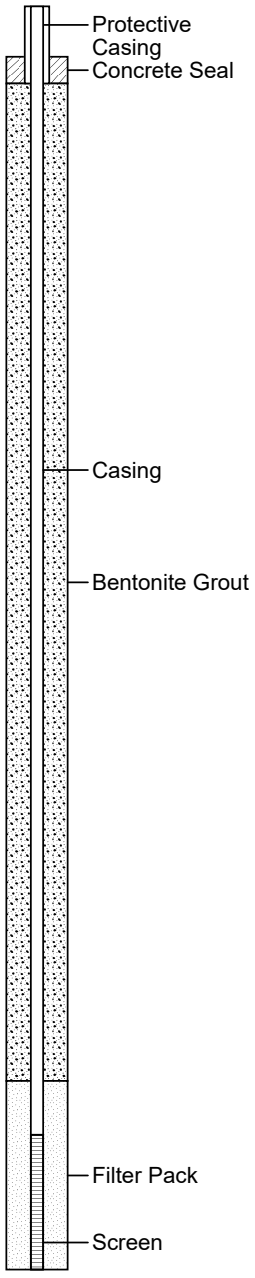


| | |
|---|---|
| Date Started | : 04/12/24 |
| Date Completed | : 04/12/24 |
| Drilling Method | : 8 1/4 HSA |
| Drill Rig | : Geoprobe |
| Driller Name/Co. | : Nick / Cabeno Env. Serv. |

| | |
|---|---|
| Boring Depth | : 45.0 ft. below surf. Elev. |
| Well Bottom Depth | : 45.0 ft. below surf. Elev. |
| Surface Elevation | : 466.79 ft. above MSL |
| Top of Casing Elev. | : 469.93 ft. above MSL |
| Groundwater Elev. | : 445.17 ft. above MSL |
| Riser Material | : 2 " Sch 40 PVC |
| Screen Material | : 2 " Sch 40 PVC, 0.01 slot |
| Coordinate N | : 1412219.230 |
| Coordinate E | : 2432352.116 |
| Logged By | : J. Misner |

| Depth in Feet | Surf. Elev. 466.79 | DESCRIPTION | Recovery (in.) |
|---|---|---|---|
| 0 | 466 | Blind drilling to 35 feet.<br><br>See Boring Log MW-21 for reference. | |
| 5 | 461 | | |
| 10 | 456 | | |
| 15 | 451 | | |
| 20 | 446 | | |
| 25 | 441 | | |
| 30 | 436 | | |
| 35 | 431 | Logged off cuttings from 35-45 feet.<br>Brown SILTY SAND, some gravel. | |
| 40 | 426 | | |
| 45 | 421 | End of Boring at 45 feet | |
| 50 | | | |

Well: MW-21D
Elev.: 469.93



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Midwest Generation, LLC
Powerton Station
Pekin, IL

Project # 12313.5

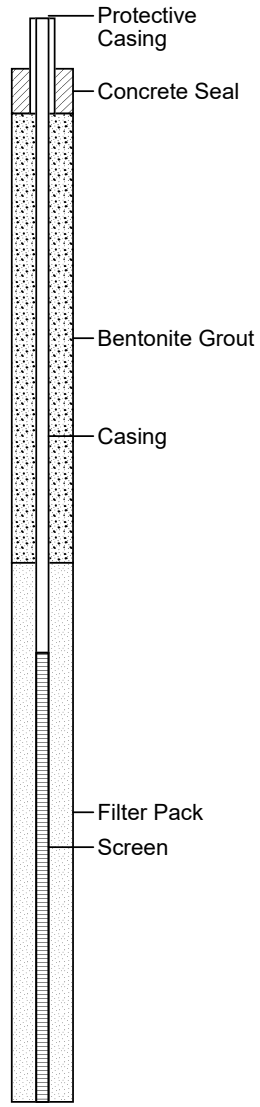
# GEOLOGIC LOG OF MW-22



| | |
|---|---|
| Date Started | : 04/10/24 |
| Date Completed | : 04/10/24 |
| Drilling Method | : 8 1/4 HSA |
| Drill Rig | : Geoprobe |
| Driller Name/Co. | : Nick / Cabeno Env. Serv. |

| | |
|---|---|
| Boring Depth | : 25.0 ft. below surf. Elev. |
| Well Bottom Depth | : 23.0 ft. below surf. Elev. |
| Surface Elevation | : 454.27 ft. above MSL |
| Top of Casing Elev. | : 457.18 ft. above MSL |
| Groundwater Elev. | : 444.45 ft. above MSL |
| Riser Material | : 2 " Sch 40 PVC |
| Screen Material | : 2 " Sch 40 PVC, 0.01 slot |
| Coordinate N | : 1412616.452 |
| Coordinate E | : 2433012.148 |
| Logged By | : J. Misner |

| Depth in Feet | Surf. Elev. 454.27 | DESCRIPTION | Recovery (in.) | Formation |
|---|---|---|---|---|
| 0 | 454 | FILL: Dark Brown SILTY SAND, trace clay, moist. | | |
| | | FILL: Black SAND and GRAVEL, wet (SLAG). | 2 / 5 | |
| 5 | 449 | | 2 / 5 | |
| | | Brown ORGANIC PEAT with ROOTS, moist. | | |
| 10 | 444 | Dark Gray/ Light Gray BANDED SILT, trace clay, moist. | 2.5 / 5 | |
| 15 | 439 | - begin trace sand<br>- sand-silt-clay mixture | 3 / 5 | |
| | | Brown SAND, medium-fine, very moist. | | |
| 20 | 434 | Orange Brown (Rust) SILTY SAND, medium-fine, trace gravel, wet. | 4 / 5 | |
| 25 | 429 | End of Boring at 25 feet. | | |
| 30 | | | | |



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KPRG and Associates, Inc.

Midwest Generation, LLC
Powerton Station
Pekin, IL

Project # 12313.5

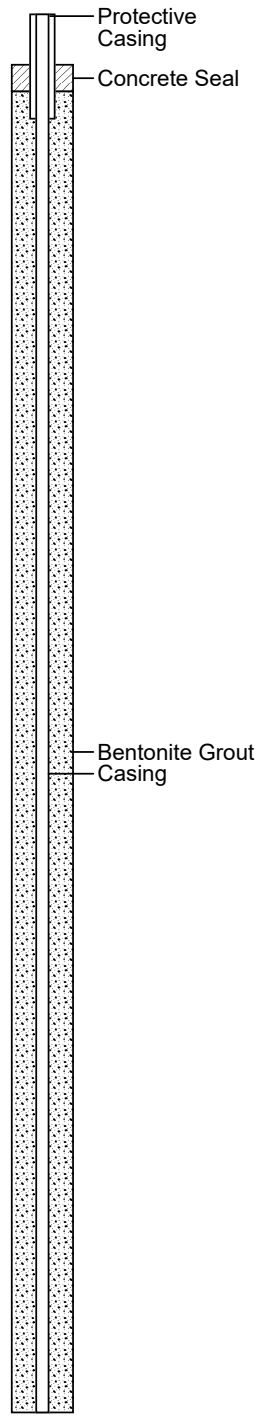
# GEOLOGIC LOG OF MW-23



| | |
|---|---|
| Date Started | : 04/10/24 |
| Date Completed | : 04/10/24 |
| Drilling Method | : 8 1/4 HSA |
| Drill Rig | : Geoprobe |
| Driller Name/Co. | : Nick / Cabeno Env. Serv. |

| | |
|---|---|
| Boring Depth | : 43.0 ft. below surf. Elev. |
| Well Bottom Depth | : 43.0 ft. below surf. Elev. |
| Surface Elevation | : 462.13 ft. above MSL |
| Top of Casing Elev. | : 465.03 ft. above MSL |
| Groundwater Elev. | : 445.20 ft. above MSL |
| Riser Material | : 2 " Sch 40 PVC |
| Screen Material | : 2 " Sch 40 PVC, 0.01 slot |
| Coordinate N | : 1411947.955 |
| Coordinate E | : 2432993.953 |
| Logged By | : J. Misner |

| Depth in Feet | Surf. Elev. 462.13 | DESCRIPTION | Recovery (in.) | Formation |
|---|---|---|---|---|
| 0 | 462 | FILL: Brown CLAY and TOP SOIL, moist. | 2 / 5 | |
| 5 | 457 | - dark gray, claye sand and gravel, approximately 3" seam | 2.5 / 5 | |
| | | FILL: Dark Gray SILTY SAND, trace clay, very moist. | | |
| 10 | 452 | FILL: Black GRAVEL, trace medium-coarse sand, trace silt, very moist. (SLAG) | 4 / 5 | |
| 15 | 447 | | 4 / 5 | |
| 20 | 442 | | 4 / 5 | |
| 25 | | - dark gray silty clay lense | | |



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KPRG and Associates, Inc.

Midwest Generation, LLC
Powerton Station
Pekin, IL

Project # 12313.5

# GEOLOGIC LOG OF MW-23

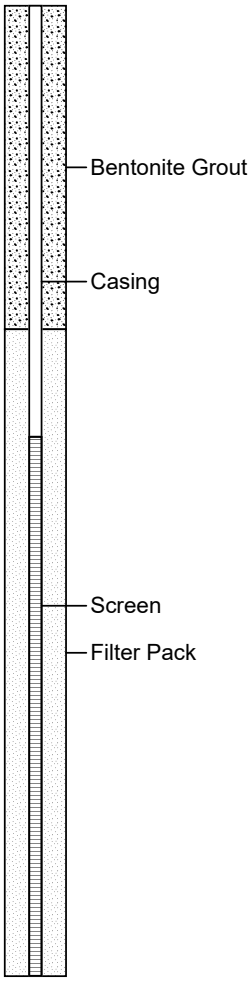
(Page 2 of 2)

| | |
|---|---|
| Date Started | : 04/10/24 |
| Date Completed | : 04/10/24 |
| Drilling Method | : 8 1/4 HSA |
| Drill Rig | : Geoprobe |
| Driller Name/Co. | : Nick / Cabeno Env. Serv. |

| | |
|---|---|
| Boring Depth | : 43.0 ft. below surf. Elev. |
| Well Bottom Depth | : 43.0 ft. below surf. Elev. |
| Surface Elevation | : 462.13 ft. above MSL |
| Top of Casing Elev. | : 465.03 ft. above MSL |
| Groundwater Elev. | : 445.20 ft. above MSL |
| Riser Material | : 2 " Sch 40 PVC |
| Screen Material | : 2 " Sch 40 PVC, 0.01 slot |
| Coordinate N | : 1411947.955 |
| Coordinate E | : 2432993.953 |
| Logged By | : J. Misner |

| Depth in Feet | Surf. Elev. 462.13 | DESCRIPTION | Recovery (in.) | Formation |
|---|---|---|---|---|
| 25 | 437 | | 4.5 / 5 | |
| | | Gray CLAY, trace silt and coarse sand, wet | | |
| 30 | 432 | Brown MEDIUM SAND, trace silt, trace gravel, wet. | 4.5 / 5 | |
| 35 | 427 | No Recovery | 0 / 5 | |
| 40 | 422 | | | |
| | | End of Boring at 43 feet | | |
| 45 | 417 | | | |
| 50 | | | | |

Well: MW-23
Elev.: 465.03



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# GEOLOGIC LOG OF P-1



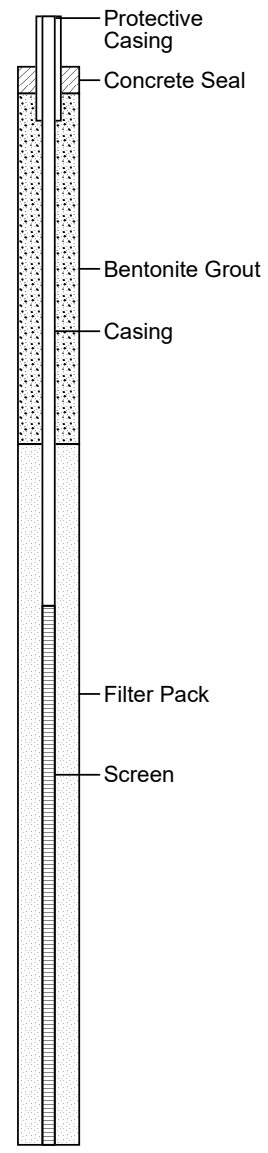
Midwest Generation, LLC
Powerton Station
Pekin, IL

Project # 12313.1

| | |
|---|---|
| Date Started | : 04/11/24 |
| Date Completed | : 04/11/24 |
| Drilling Method | : 8 1/4 HSA |
| Drill Rig | : Geoprobe |
| Driller Name/Co. | : Nick / Cabeno Env. Serv. |

| | |
|---|---|
| Boring Depth | : 20.0 ft. below surf. Elev. |
| Well Bottom Depth | : 20.0 |
| Surface Elevation | : 457.13 ft. above MSL |
| Top of Casing Elev. | : 460.08 ft. above MSL |
| Groundwater Elev. | : 446.46 ft. above MSL |
| Riser Material | : 1 " Sch 40 PVC |
| Screen Material | : 1 " Sch 40 PVC, 0.01 slot |
| Coordinate N | : 1413681.386 |
| Coordinate E | : 2432692.297 |
| Logged By | : J. Misner |

| Depth in Feet | Surf. Elev. 457.13 | DESCRIPTION | Recovery (in.) | Formation |
|---|---|---|---|---|
| 0 | 457 | FILL: Brown and Gray COARSE SAND, trace gravel, dry. | 2 / 5 | |
| | | FILL: Dark Brown MEDIUM SAND, trace silt, dry. | | |
| 5 | 452 | | 2.5 / 5 | |
| | | FILL: Dark Gray and Black SILT, trace banded silts and clay, trace organics with peat, moist. | | |
| 10 | 447 | FILL: Dark Brown and Black fine-medium GRAVEL trace silt, wet. (SLAG) | 2 / 5 | |
| 15 | 442 | | 2 / 5 | |
| | | Banded Black and Dark Gray SILTY CLAY, verly moist, high plasticity. | | |
| 20 | 437 | End of Boring at 20 feet. | | |
| 25 | | | | |



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Midwest Generation, LLC
Powerton Station
Pekin, IL

Project # 12313.1

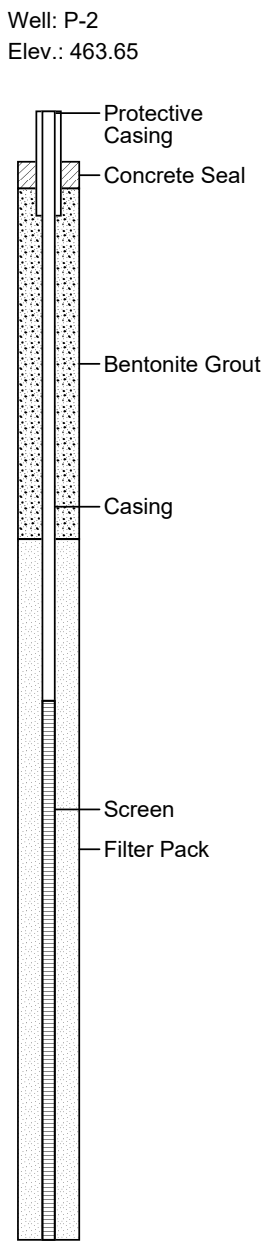
# GEOLOGIC LOG OF P-2



| | |
|---|---|
| Date Started | : 04/11/24 |
| Date Completed | : 04/11/24 |
| Drilling Method | : 8 1/4 HSA |
| Drill Rig | : Geoprobe |
| Driller Name/Co. | : Nick / Cabeno Env. Serv. |

| | |
|---|---|
| Boring Depth | : 20.0 |
| Well Bottom Depth | : 20.0 |
| Surface Elevation | : 461.50 ft. above MSL |
| Top of Casing Elev. | : 463.65 ft. above MSL |
| Groundwater Elev. | : |
| Riser Material | : 1 " Sch 40 PVC |
| Screen Material | : 1 " Sch 40 PVC, 0.01 slot |
| Coordinate N | : 1412039.533 |
| Coordinate E | : 2433180.889 |
| Logged By | : J. Misner |

| Depth in Feet | Surf. Elev. 461.50 | DESCRIPTION | Recovery (in.) | Formation |
|---|---|---|---|---|
| 0 | 461.5 | Brown MEDIUM-FINE SAND ,trace gravel, dry. | | |
| | | FILL: Black GRAVEL, trace silt, moist. (SLAG) | 2.5 / 5 | |
| | | FILL: Brown SAND and SILT, fine grain, dry | | |
| 5 | 456.5 | | 2.5 / 5 | |
| 10 | 451.5 | - trace gravel | | |
| | | FILL: Banded Black and Dark Gray SANDY SILT, dry to slightly moist. | 4.5 / 5 | |
| 15 | 446.5 | | 2 / 5 | |
| 20 | 441.5 | End of Boring at 20 feet. | | |
| 25 | | | | |



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# GEOLOGIC LOG OF MW-18A

(Page 1 of 2)

Midwest Generation, LLC
Powerton Station
Pekin, Illinois

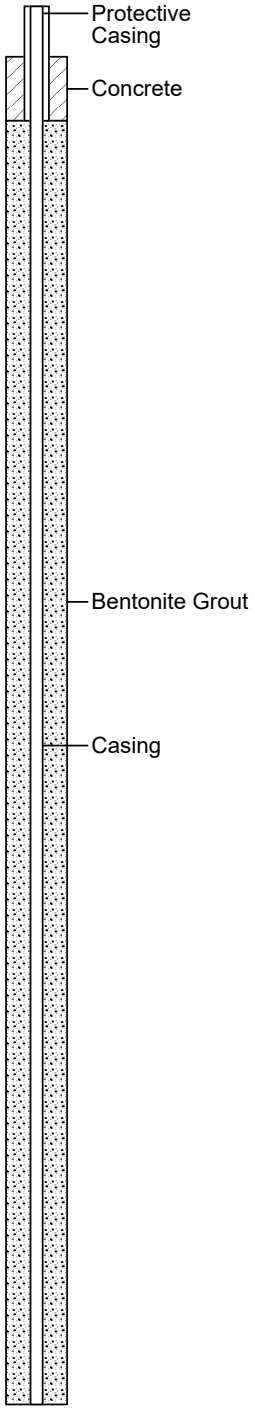
Project No. 17424.1

| | |
|---|---|
| Date | : August 19, 2024 |
| Drilling Tools | : Geoprobe |
| Drill Rig | : Geoprobe |
| Driller Name/Co | : Nick / Cabeno Env. Serv. |

| | |
|---|---|
| Boring Depth | : 35.0 ft. below surf. Elev. |
| Well Bottom Depth | : 35.0 ft. below surf. Elev. |
| Surface Elevation | : 466.45 feet above MSL |
| Top of Casing Elev. | : 469.54 feet above MSL |
| Groundwater Elev. | : 433.94 feet above MSL |
| Riser Material | : 2" Sch 40 PVC |
| Screen Material | : 2" Sch 40 PVC, 0.010 slot |
| Coordinate N | : 1413185.170 |
| Coordinate E | : 2432952.550 |
| Logged By | : J. Misner |

| Depth in Feet | Appx. Elev. 466.45 | DESCRIPTION | Recovery (ft) | Formation |
|---|---|---|---|---|
| 0 | 466 | FILL: Brown SAND, trace silt, trace organics, dry | | |
| 2 | 464 | - brown clay lense (6") | 4 / 5 | |
| 4 | 462 | - trace black gravel | | |
| 6 | 460 | FILL: Black and Brown GRAVEL, trace sand, dry | 4.5 / 5 | |
| 8 | 458 | - brown clay lense (6") | | |
| 10 | 456 | - increase moisture | | |
| 12 | 454 | | 4.5 / 5 | |
| 14 | 452 | FILL: Black GRAVEL, trace silt and clay, slightly moist | | |
| 16 | 450 | | | |
| 18 | 448 | - organics (wood)<br>FILL: Black GRAVEL, slightly moist | 5 / 5 | |
| 20 | | - trace clay | | |

Well: MW-18A
Elev.: 469.54



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KPRG and Associates, Inc.

Midwest Generation, LLC
Powerton Station
Pekin, Illinois

Project No. 17424.1

# GEOLOGIC LOG OF MW-18A

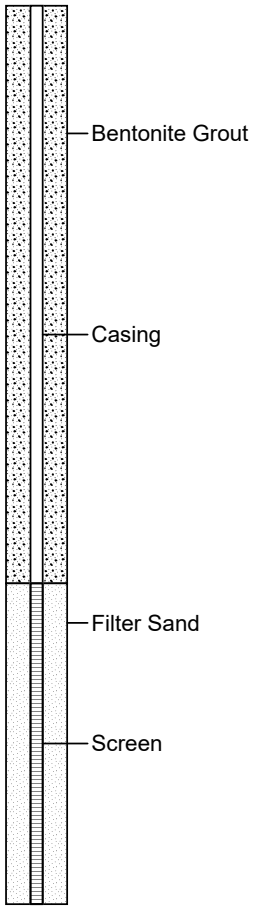
(Page 2 of 2)

| | |
|---|---|
| Date | : August 19, 2024 |
| Drilling Tools | : Geoprobe |
| Drill Rig | : Geoprobe |
| Driller Name/Co | : Nick / Cabeno Env. Serv. |

| | |
|---|---|
| Boring Depth | : 35.0 ft. below surf. Elev. |
| Well Bottom Depth | : 35.0 ft. below surf. Elev. |
| Surface Elevation | : 466.45 feet above MSL |
| Top of Casing Elev. | : 469.54 feet above MSL |
| Groundwater Elev. | : 433.94 feet above MSL |
| Riser Material | : 2" Sch 40 PVC |
| Screen Material | : 2" Sch 40 PVC, 0.010 slot |
| Coordinate N | : 1413185.170 |
| Coordinate E | : 2432952.550 |
| Logged By | : J. Misner |

| Depth in Feet | Appx. Elev. 466.45 | DESCRIPTION | Recovery (ft) | Formation |
|---|---|---|---|---|
| 21 | 445 | | | |
| 23 | 443 | - wet | 2 / 5 | |
| 25 | 441 | | | |
| 27 | 439 | Gray SILT with CLAY, trace organics, stiff, very moist/wet | 3.5 / 5 | |
| 29 | 437 | | | |
| 31 | 435 | | | |
| 33 | 433 | - organics (wood) | 3.5 / 5 | |
| 35 | 431 | End of Boring at 35 feet. | | |
| 37 | 429 | | | |
| 39 | 427 | | | |
| 41 | | | | |

Well: MW-18A
Elev.: 469.54



# ATTACHMENT 2
## Survey Data

**MIDWEST GENERATION, LLC**
**POWERTON STATION - PEKIN, IL**
**MONITORING WELL, STAFF GUAGE AND PIEZOMETER SURVEY**

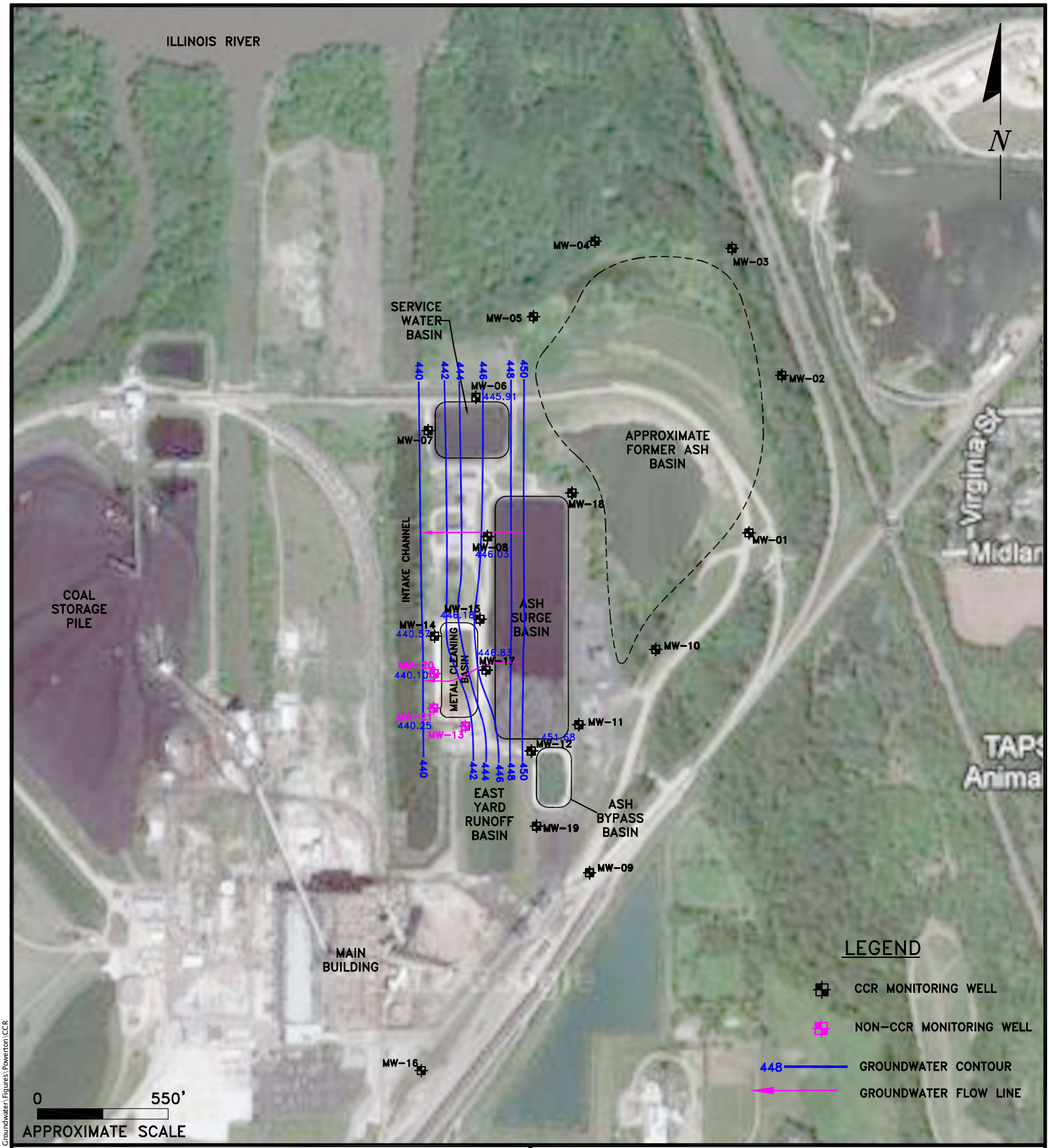
| WELL# | NORTHING | EASTING | LID | T/CASE | T/WELL | CONC/GRND |
|---|---|---|---|---|---|---|
| MW-12R | 1412086.381 | 2432792.024 | 473.18 | 473.17 | 472.95 | 470.08 |
| MW-18A | 1413185.170 | 2432952.550 | 469.55 | 469.54 | 469.54 | 466.45 |
| MW-21D | 1412219.230 | 2432352.116 | 470.09 | 470.08 | 469.93 | 466.79 |
| MW-22 | 1412616.452 | 2433012.148 | 457.42 | 457.41 | 457.18 | 454.27 |
| MW-23 | 1411947.955 | 2432993.953 | 465.23 | 465.22 | 465.03 | 462.13 |
| PIEZ-1 | 1413681.386 | 2432692.297 | 460.13 | 460.12 | 460.08 | 457.13 |
| PIEZ-2 | 1412039.533 | 2433180.889 | 463.75 | 463.74 | 463.65 | 461.50 |

ELEVATION AT STAFF GAUGE MARK 0.00’ = 440.57

Horizontal: Illinois State Plane Coordinate System West Zone (NAD 83-2011)
Vertical Datum: Plant Datum (subtract 1.04' to obtain NAVD 88)

**Main Address: 129 Capista Drive, Shorewood, IL 60404 | Phone: 815-744-6600 • Fax: 815-744-0101**
**Remit to: 401 S. Carlton Avenue • Wheaton, IL 60187 | www.twigtechnologies.com**

# ATTACHMENT 3
## Monthly Potentiometric Maps

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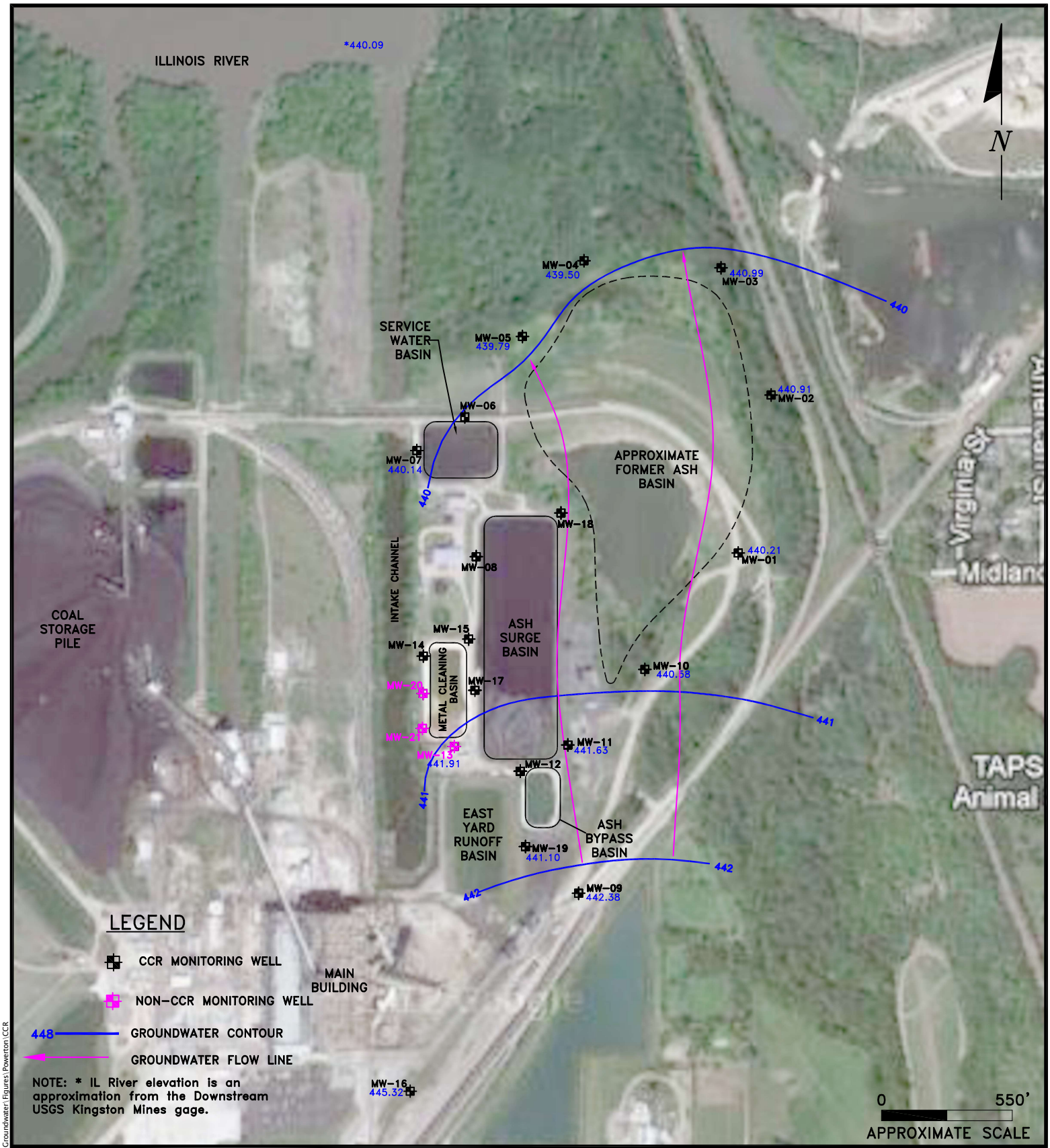
# POTENTIOMETRIC MAP
# SILT/CLAY UNIT 01/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: December 20, 2024

KPRG Project No. 12313.1 | ATTACHMENT 1

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# POTENTIOMETRIC MAP SAND/GRAVEL UNIT 01/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: December 20, 2024 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

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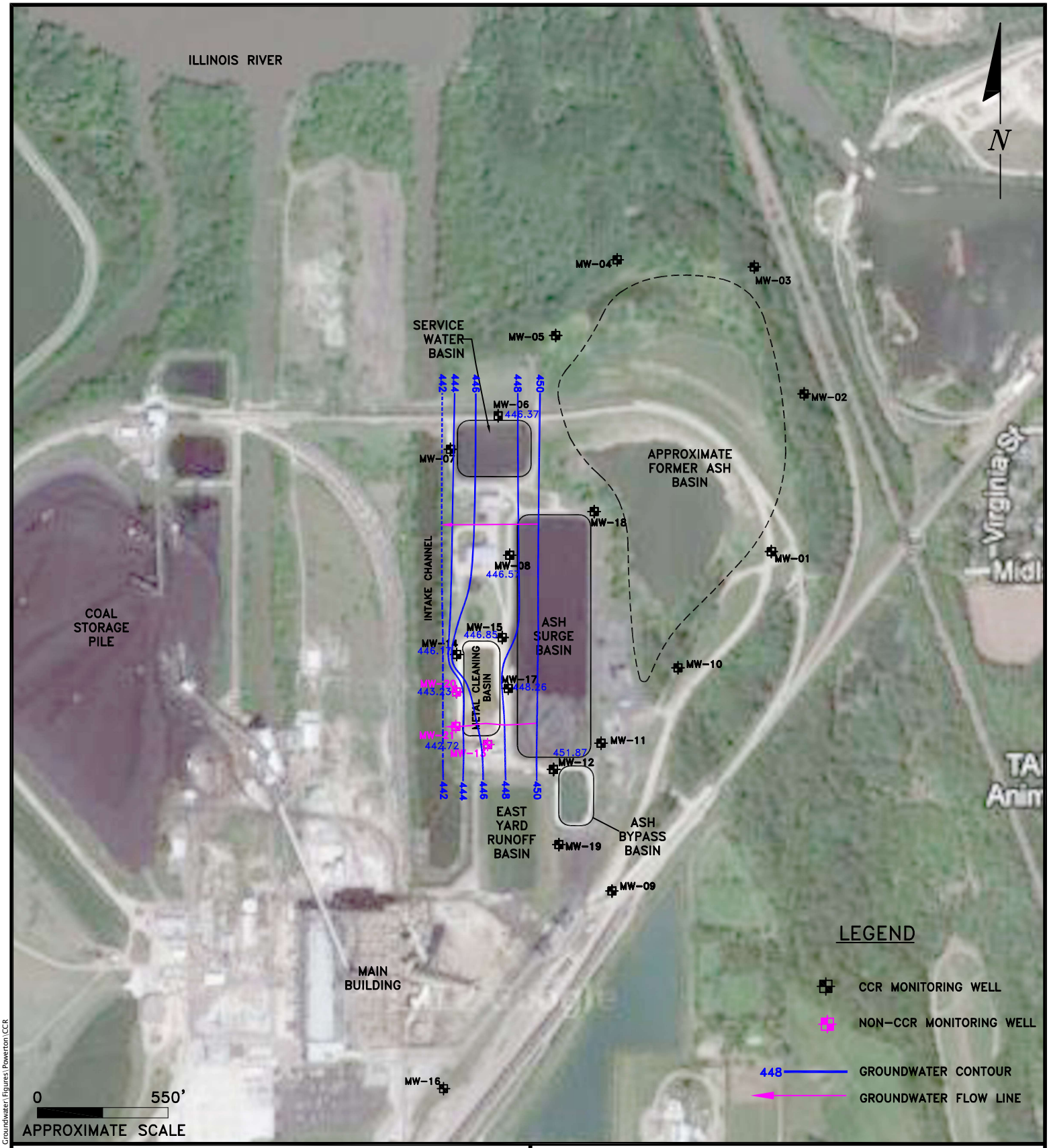



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# POTENTIOMETRIC MAP
# SILT/CLAY UNIT 02/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: December 23, 2024

KPRG Project No. 12313.1 | ATTACHMENT 1

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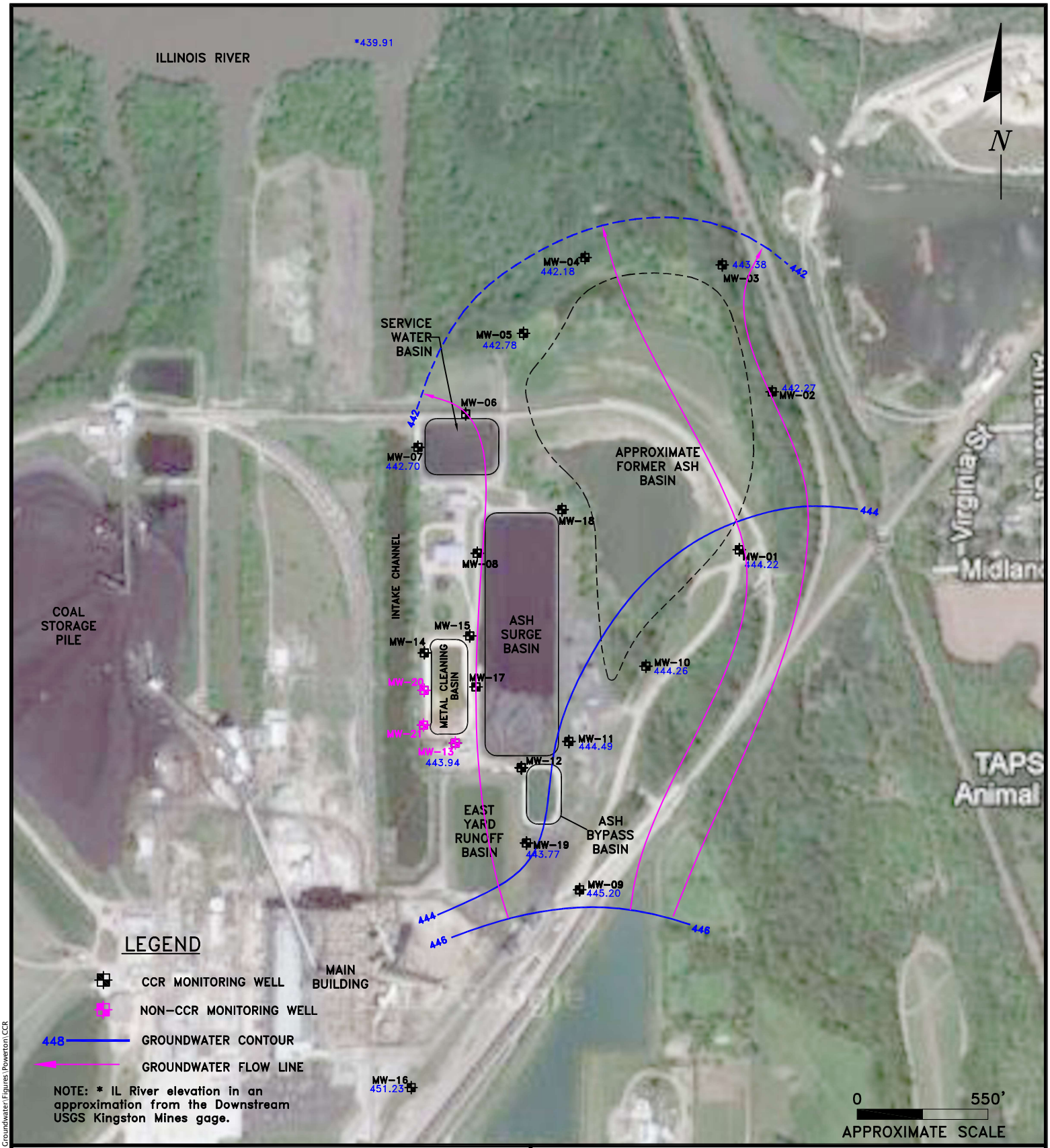



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# POTENTIOMETRIC MAP
# SAND/GRAVEL UNIT 02/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: December 26, 2024

KPRG Project No. 12313.1 | ATTACHMENT 1

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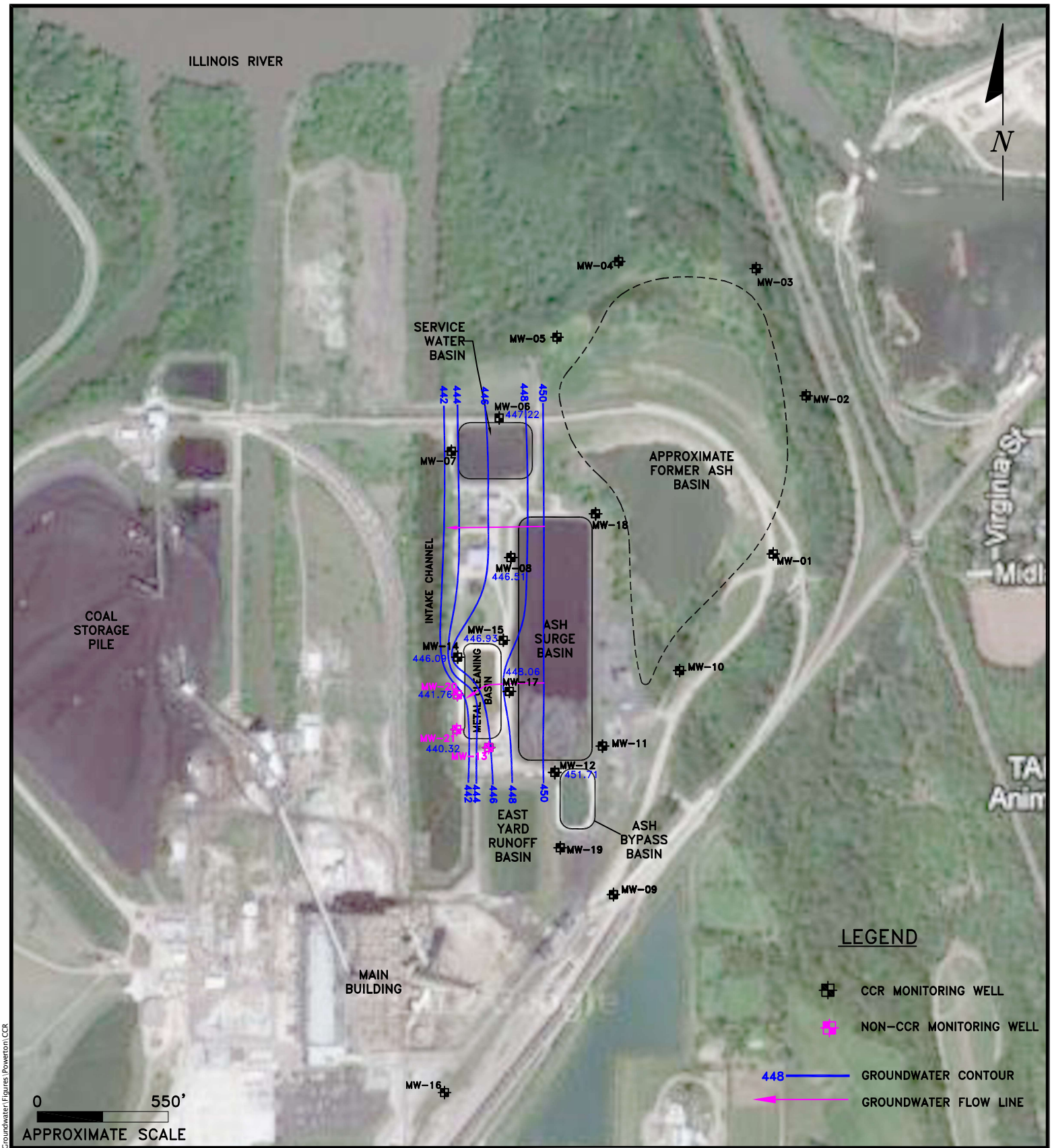


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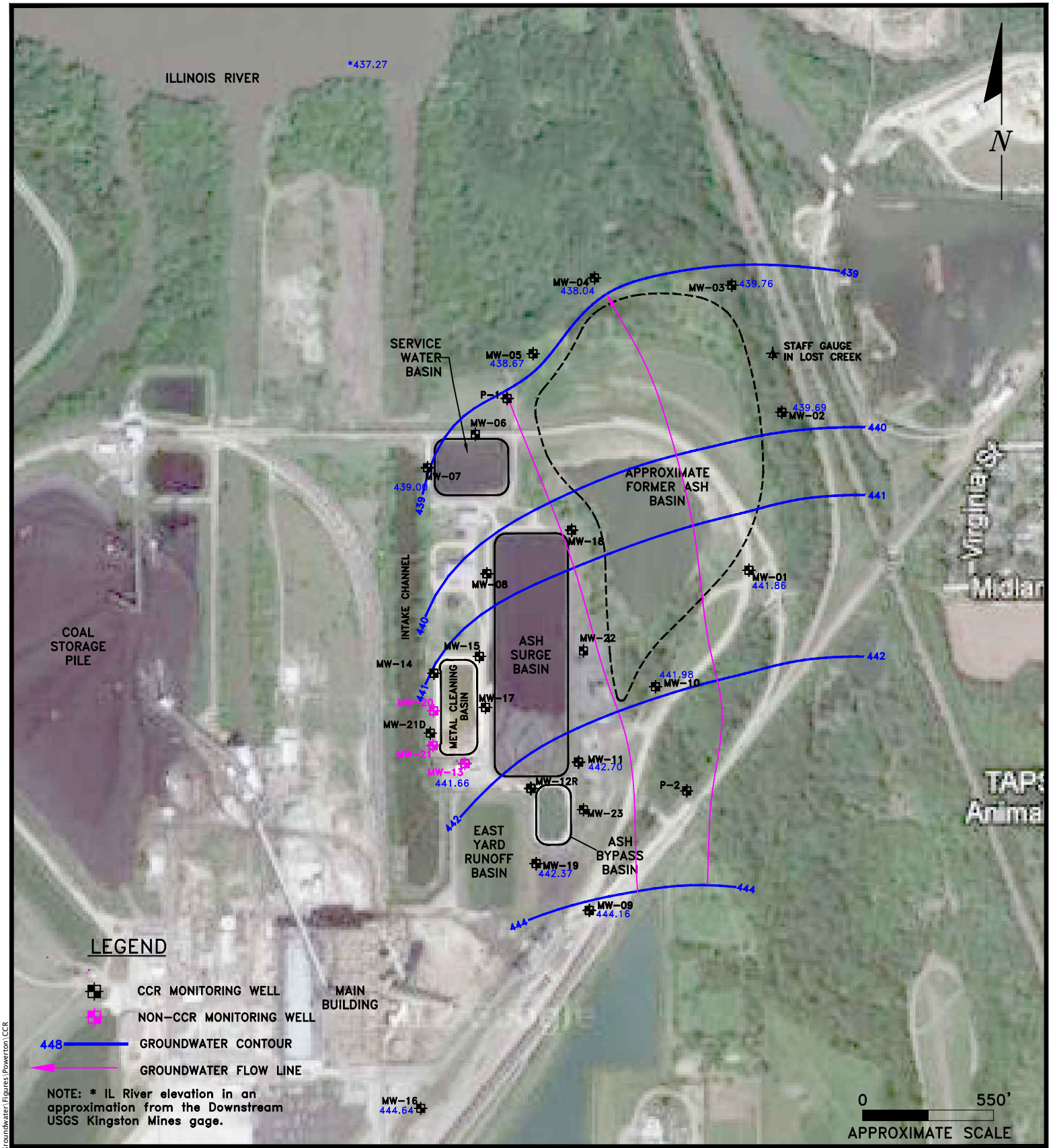
# POTENTIOMETRIC MAP SILT/CLAY UNIT 03/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: December 26, 2024 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

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# POTENTIOMETRIC MAP SAND/GRAVEL UNIT 03/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: December 26, 2024 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

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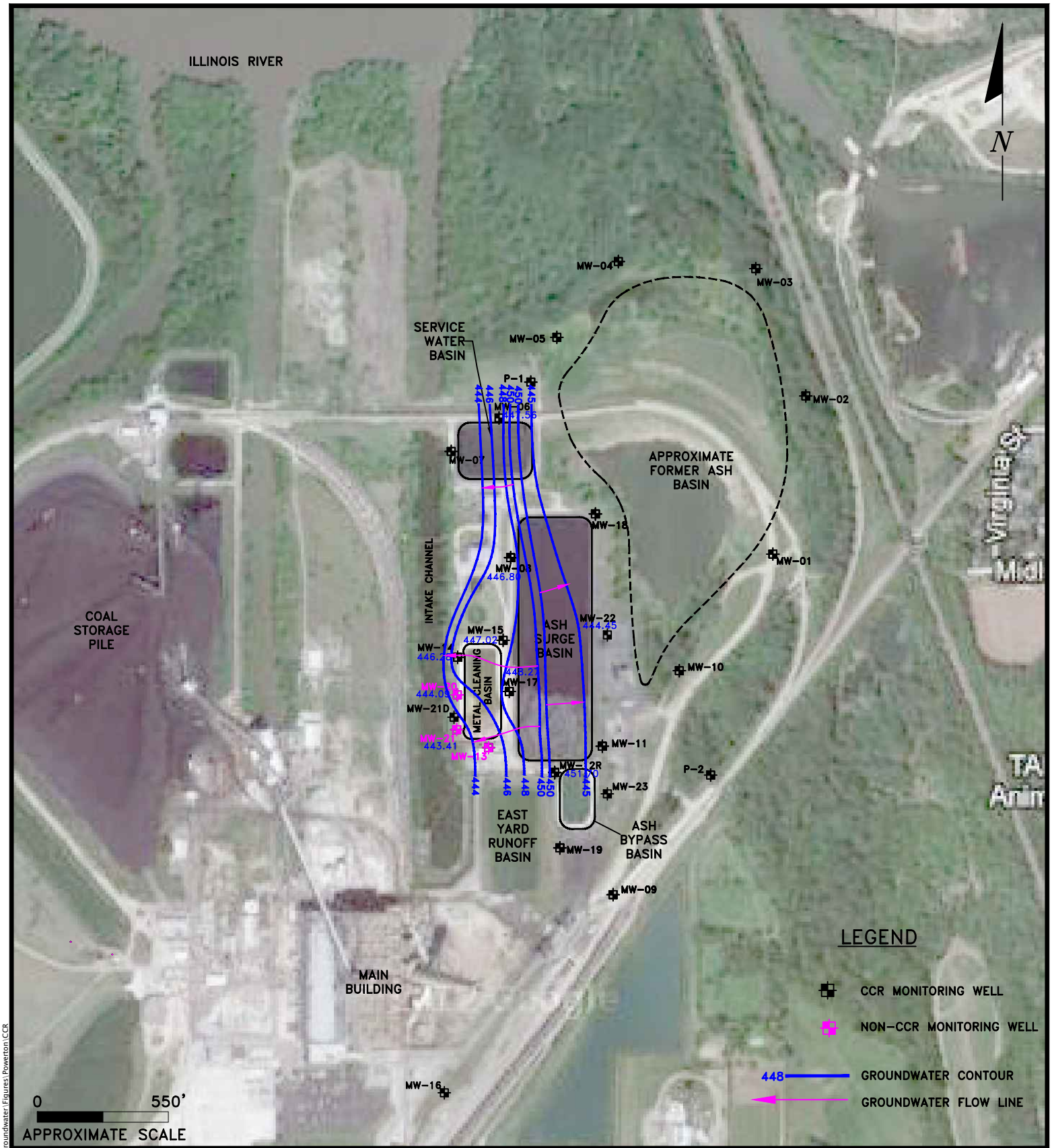


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# POTENTIOMETRIC MAP
# SILT/CLAY UNIT 04/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: December 30, 2024

KPRG Project No. 12313.1 | ATTACHMENT 1

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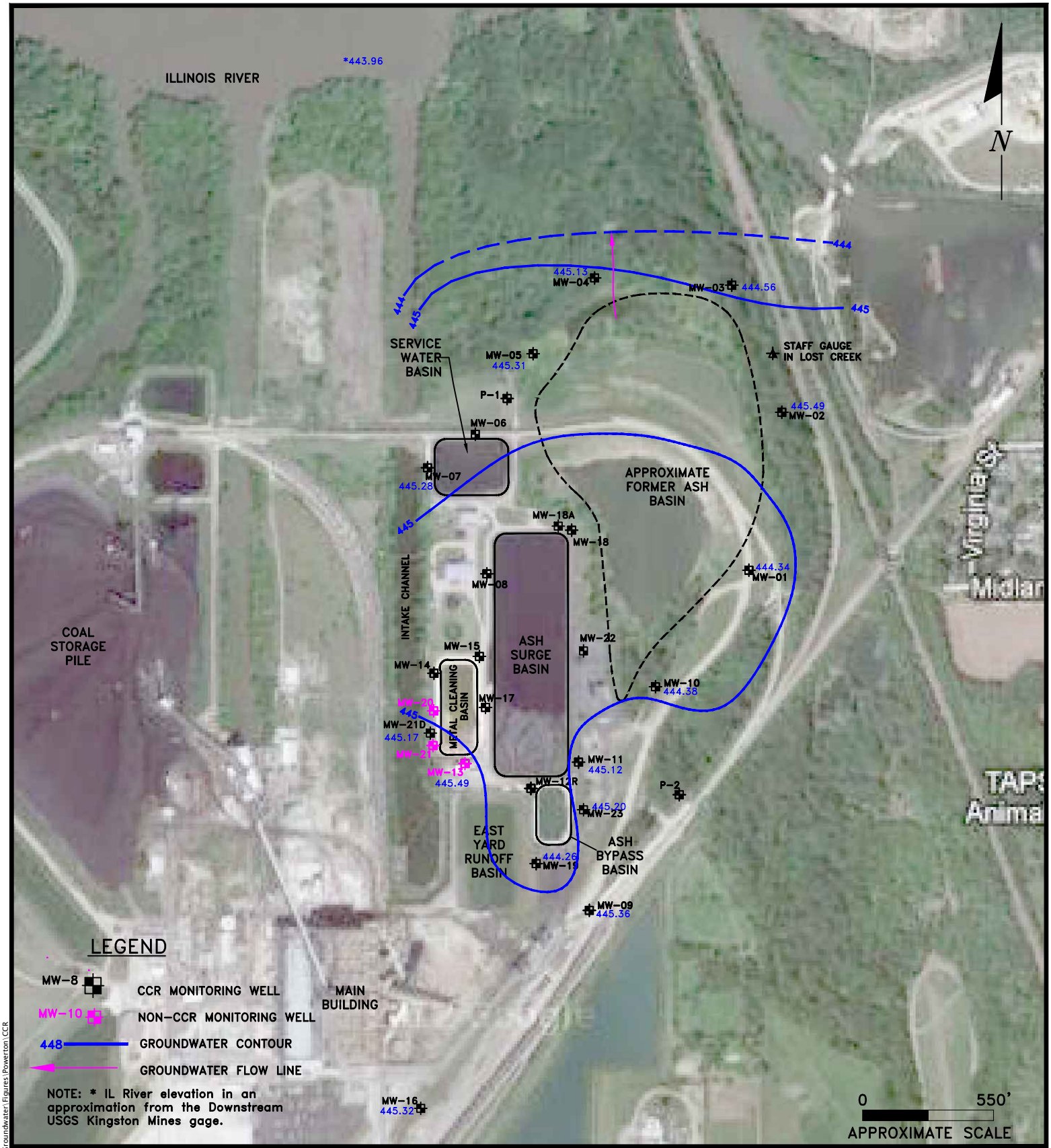


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# POTENTIOMETRIC MAP SAND/GRAVEL UNIT 04/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: January 14, 2025 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

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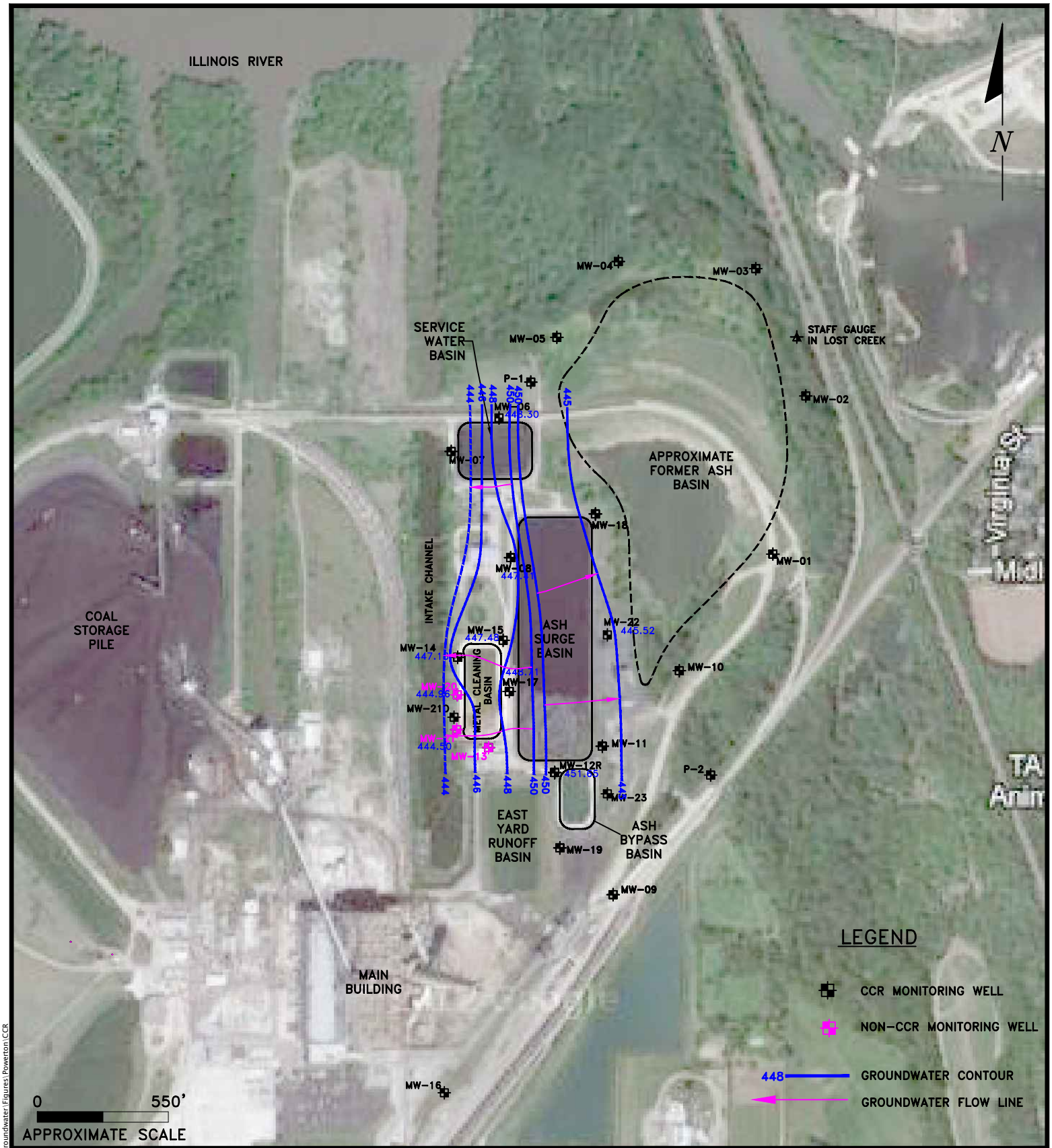


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# POTENTIOMETRIC MAP
# SILT/CLAY UNIT 05/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: December 30, 2024

KPRG Project No. 12313.1 | ATTACHMENT 1

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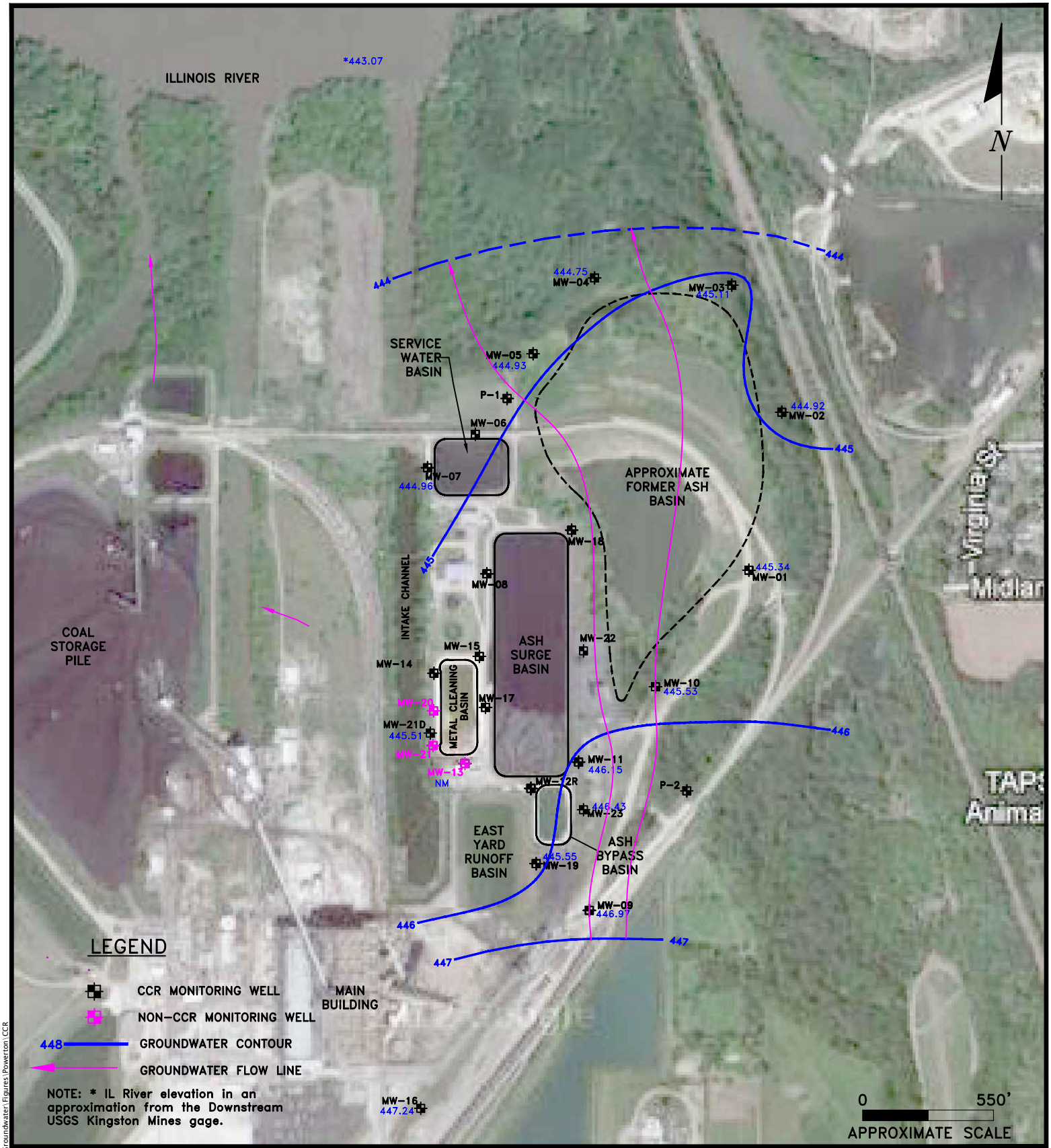


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# POTENTIOMETRIC MAP SAND/GRAVEL UNIT 05/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: January 2, 2025 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

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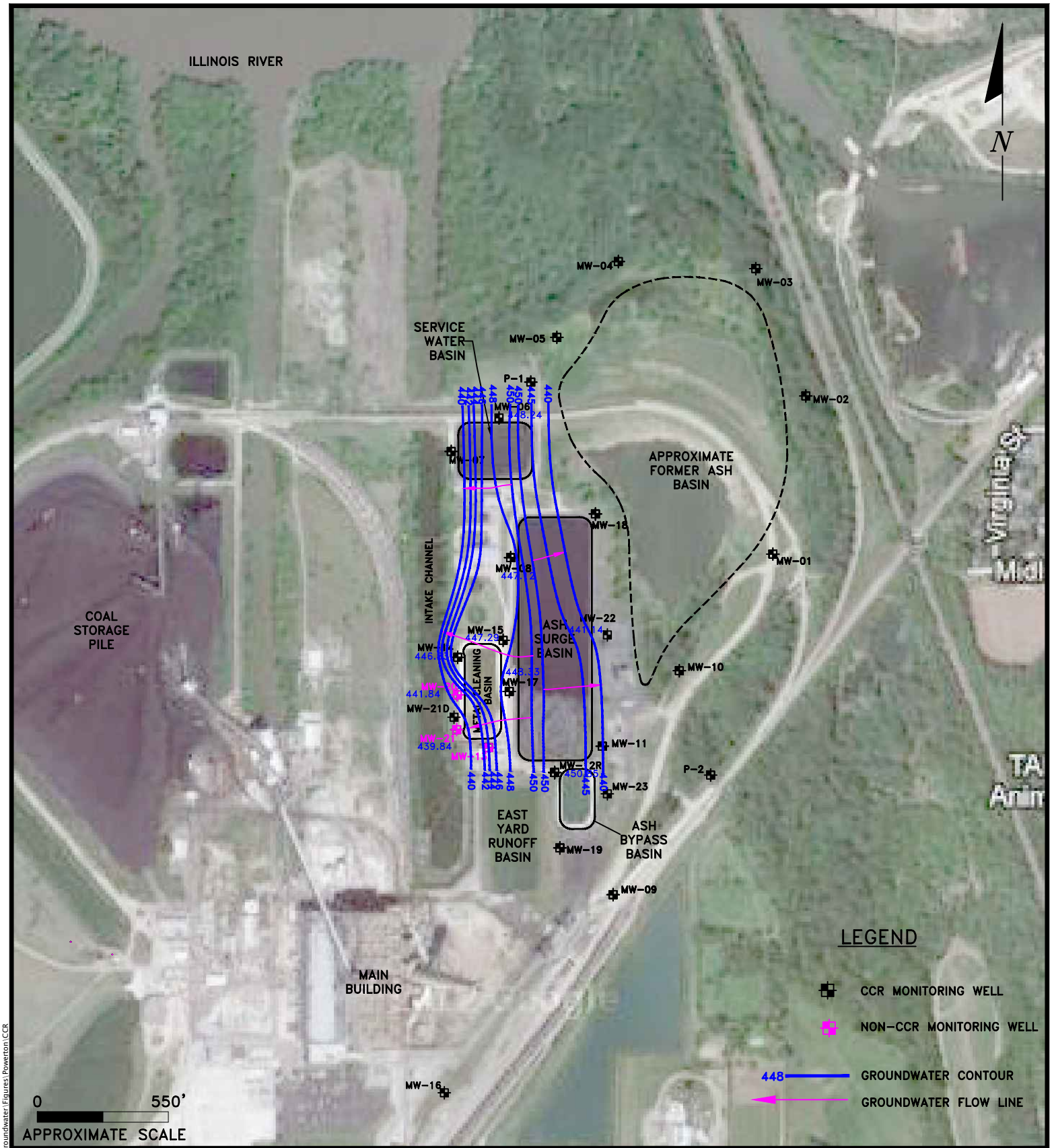


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# POTENTIOMETRIC MAP
# SILT/CLAY UNIT 06/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: December 30, 2024

KPRG Project No. 12313.1 | ATTACHMENT 1

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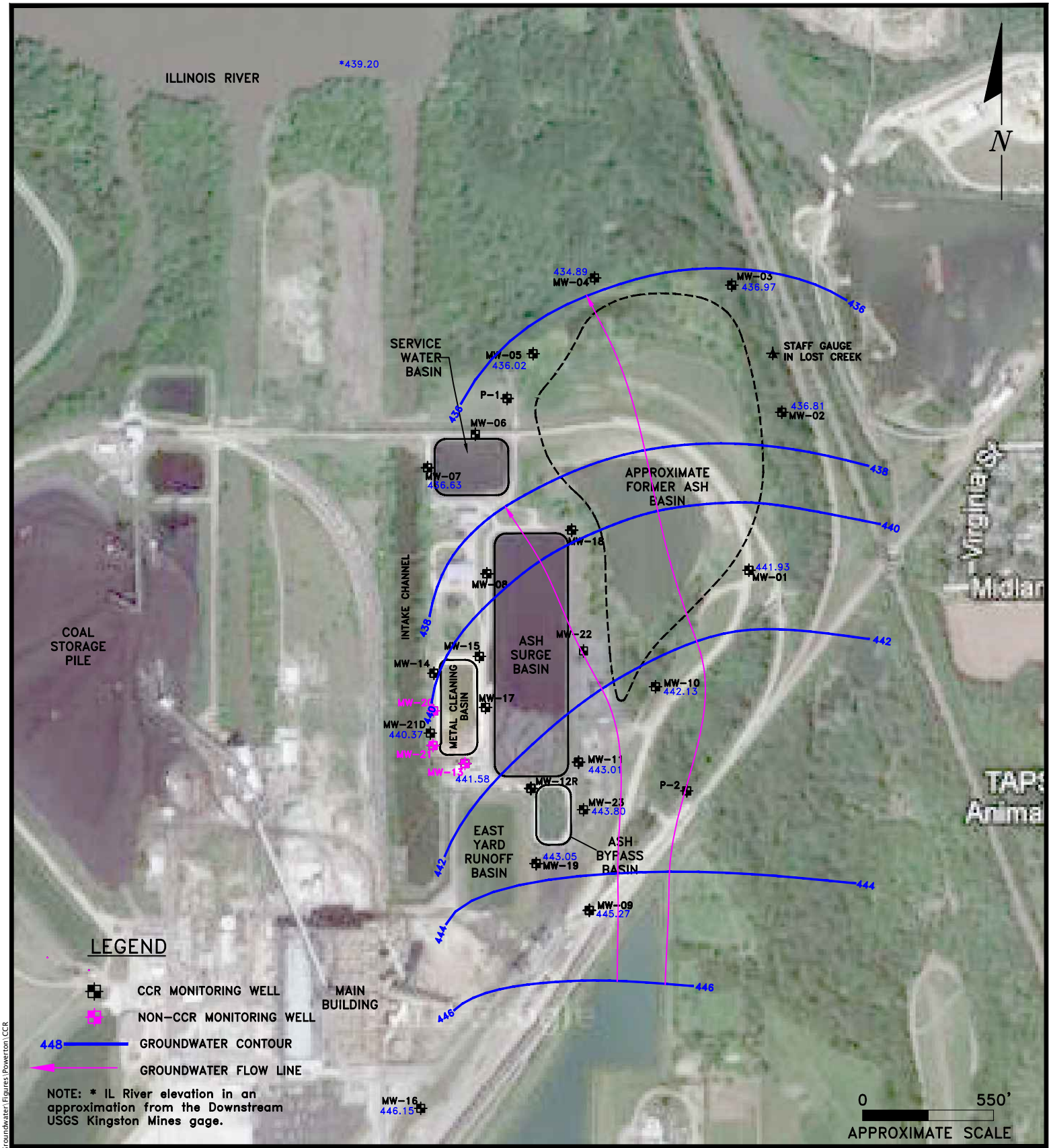



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# POTENTIOMETRIC MAP SAND/GRAVEL UNIT 06/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: December 30, 2024 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

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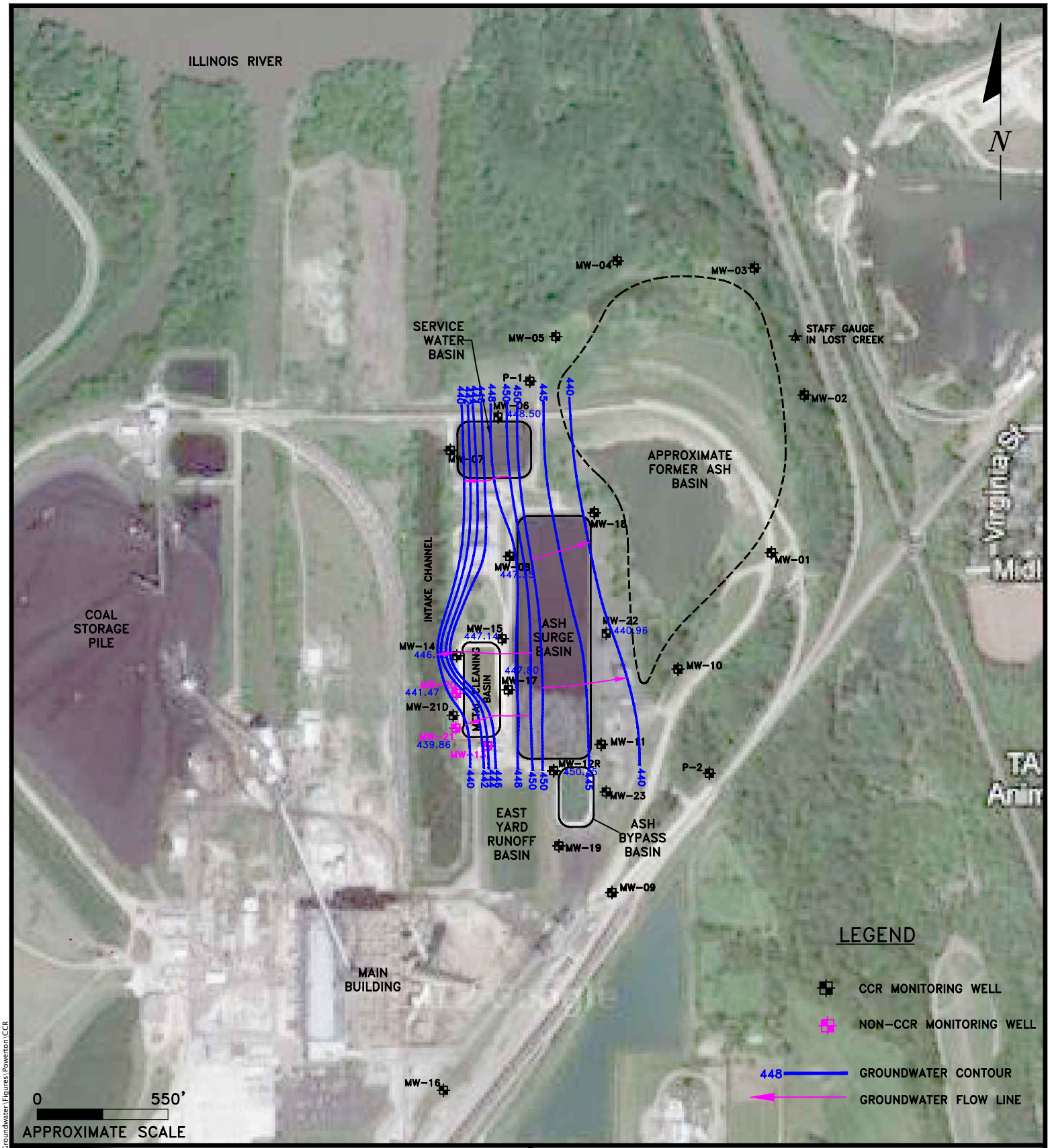


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# POTENTIOMETRIC MAP SILT/CLAY UNIT 07/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: December 30, 2024

KPRG Project No. 12313.1 | ATTACHMENT 1

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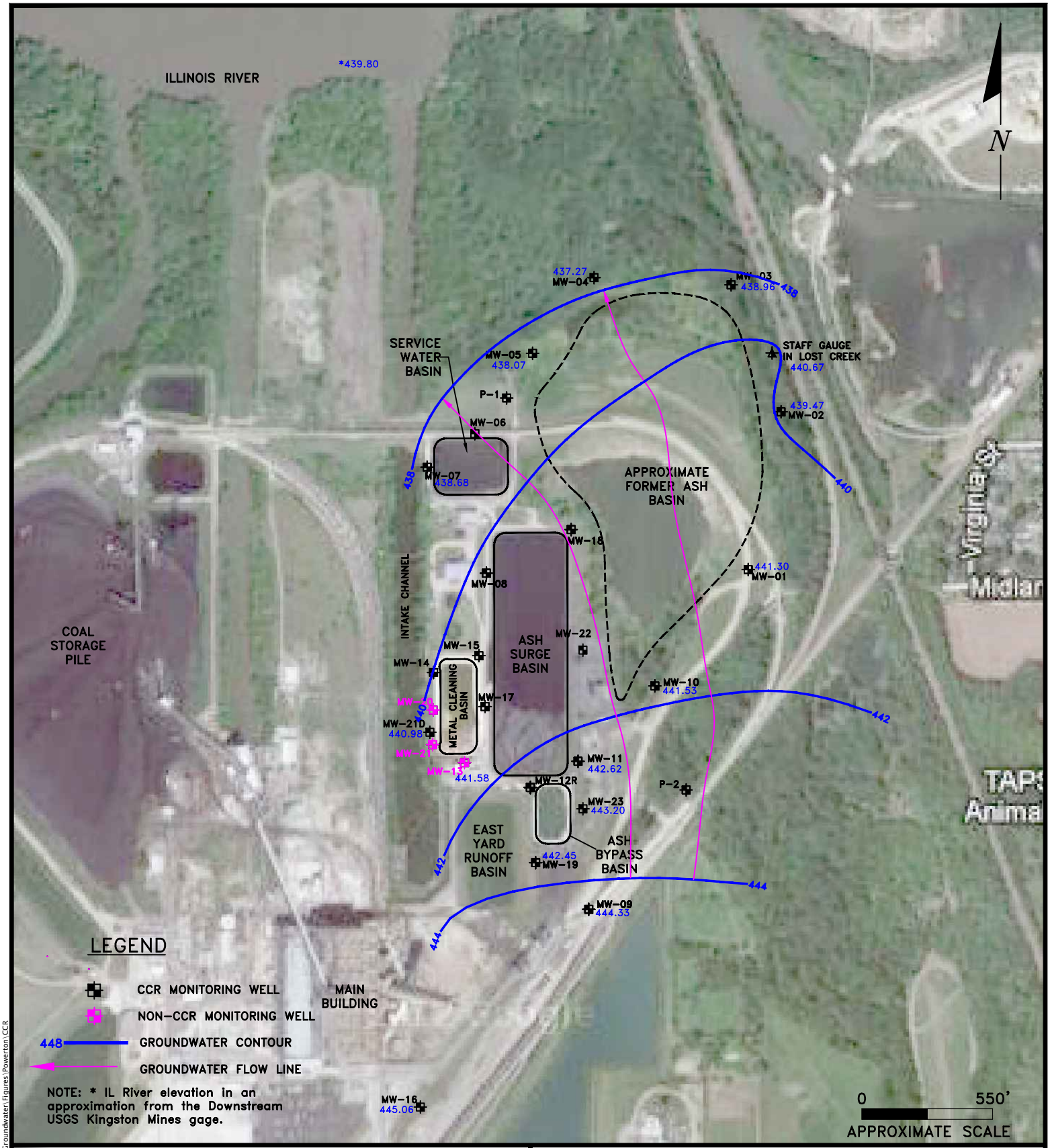



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KPRG and Associates, inc.

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# POTENTIOMETRIC MAP SAND/GRAVEL UNIT 07/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: December 31, 2024 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

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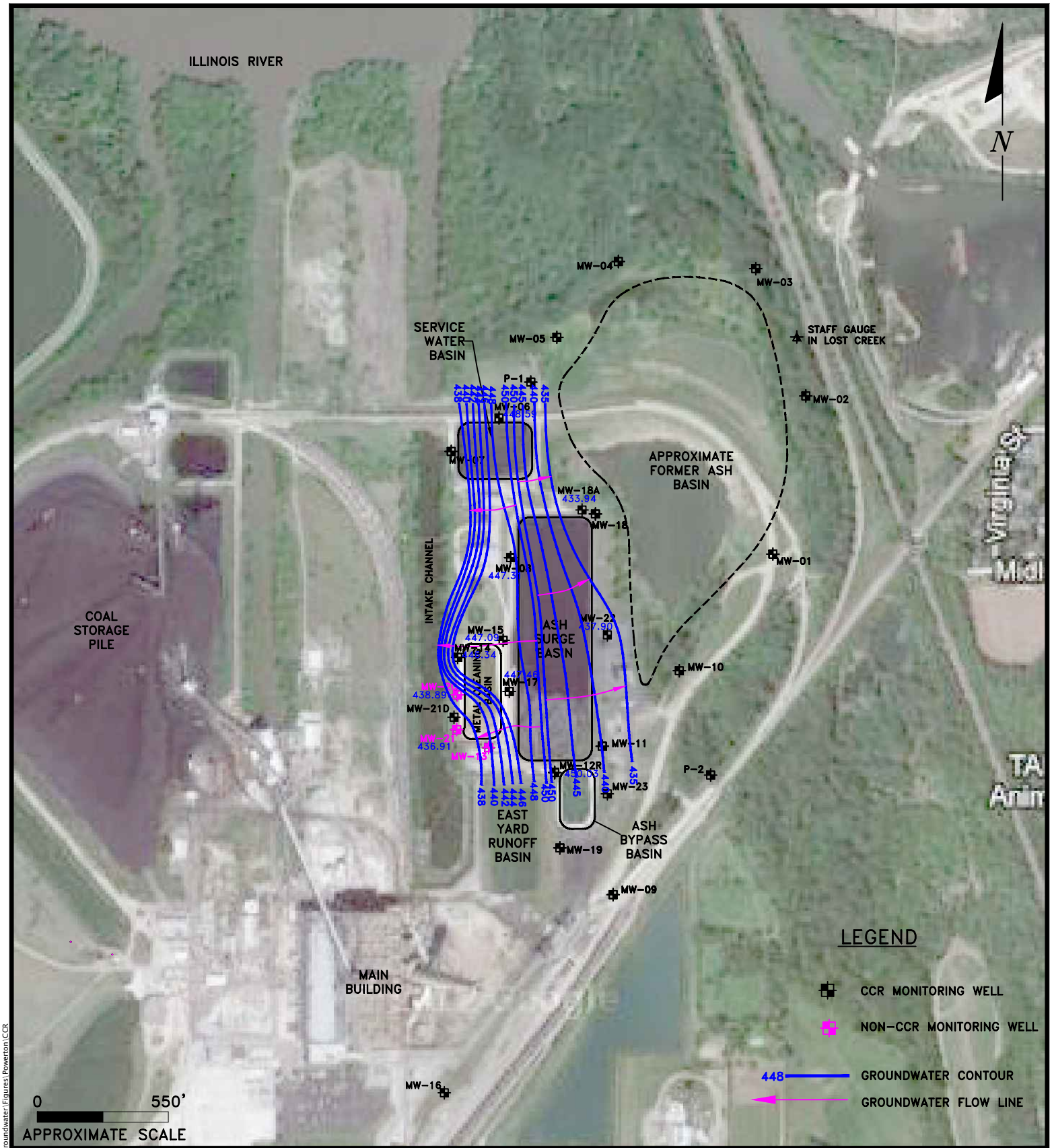


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# POTENTIOMETRIC MAP
# SILT/CLAY UNIT 08/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: December 30, 2024

KPRG Project No. 12313.1 | ATTACHMENT 1

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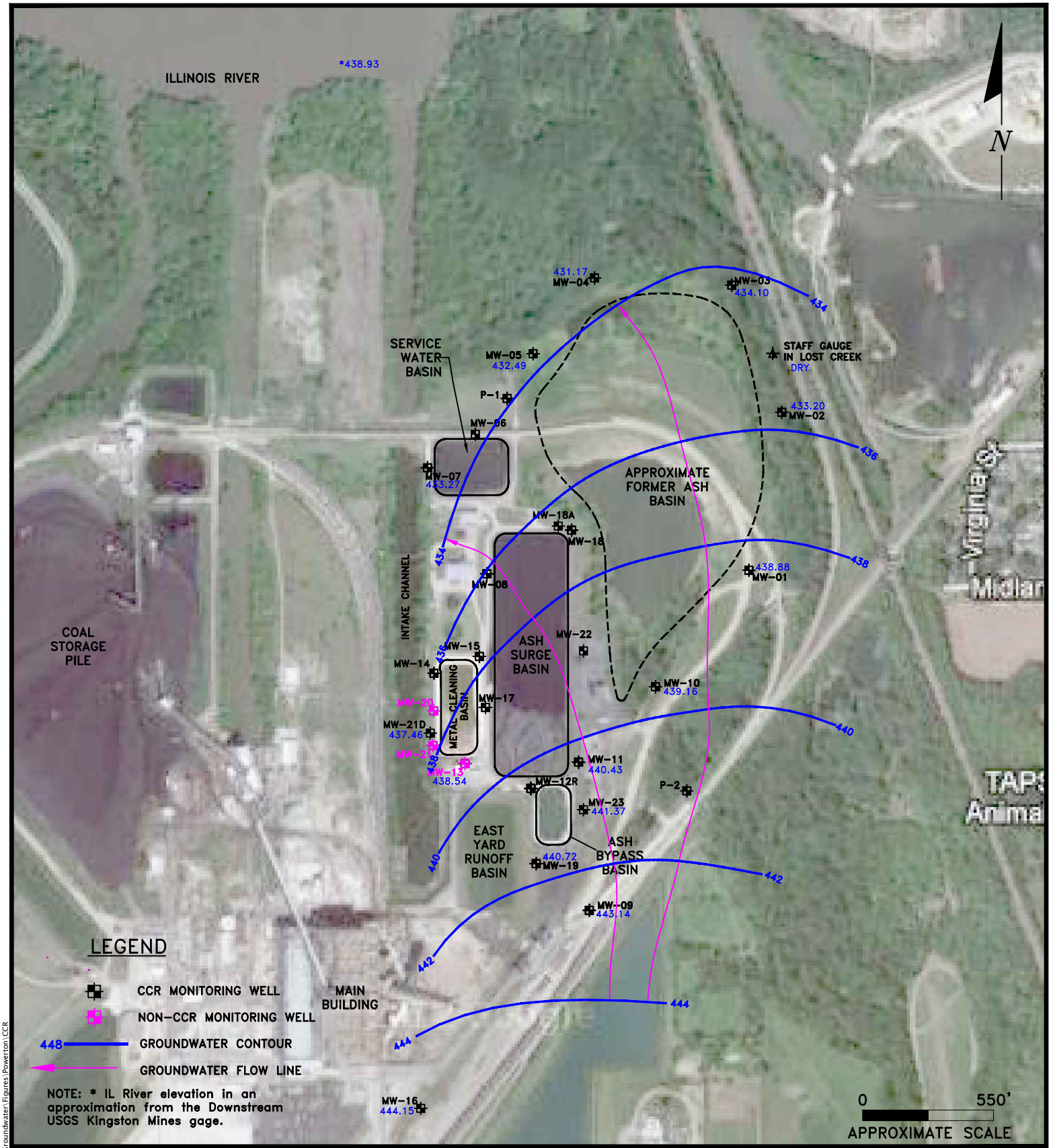



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# POTENTIOMETRIC MAP SAND/GRAVEL UNIT 08/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: December 31, 2024 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

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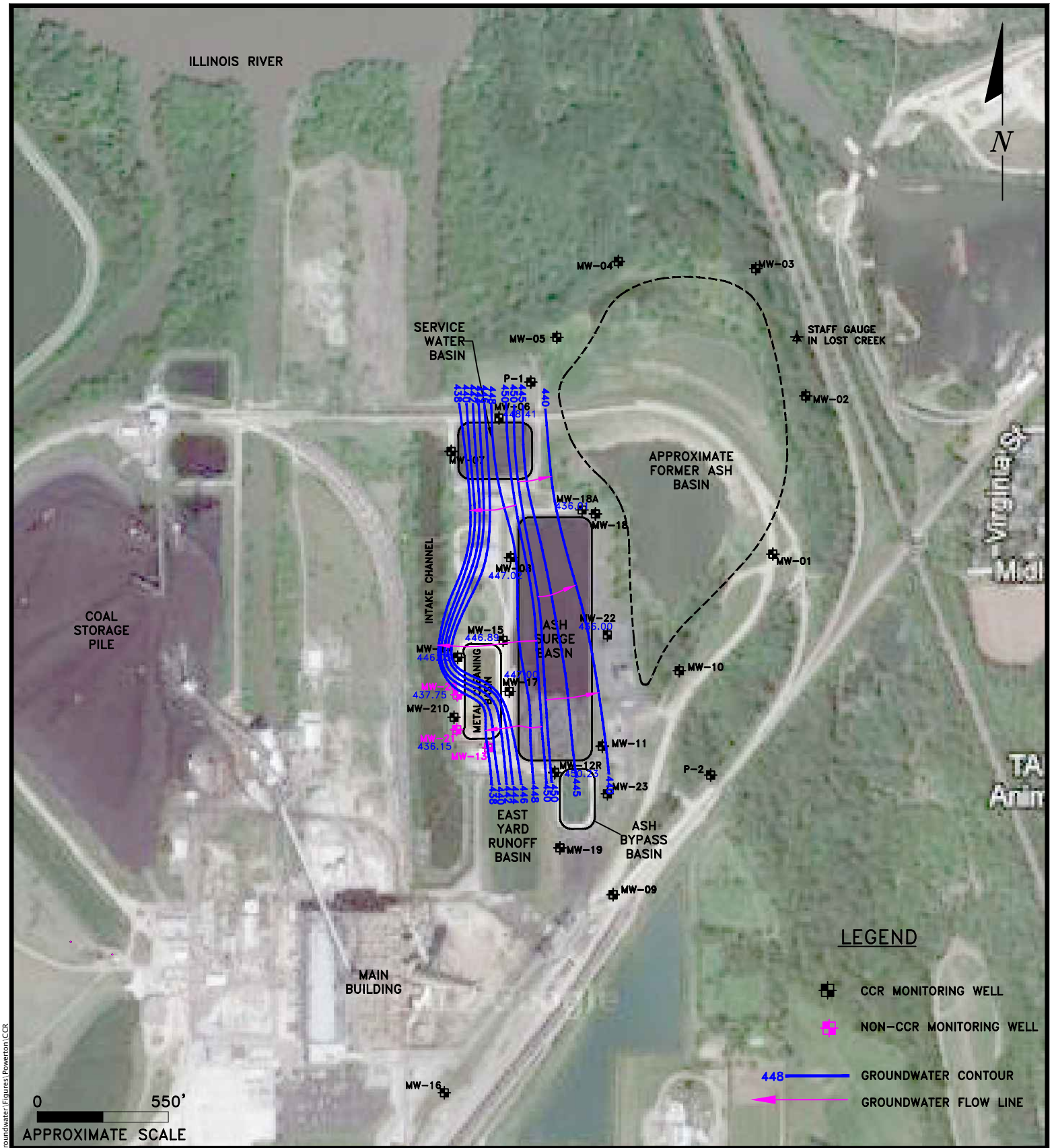


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# POTENTIOMETRIC MAP
# SILT/CLAY UNIT 09/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: December 31, 2024

KPRG Project No. 12313.1 | ATTACHMENT 1

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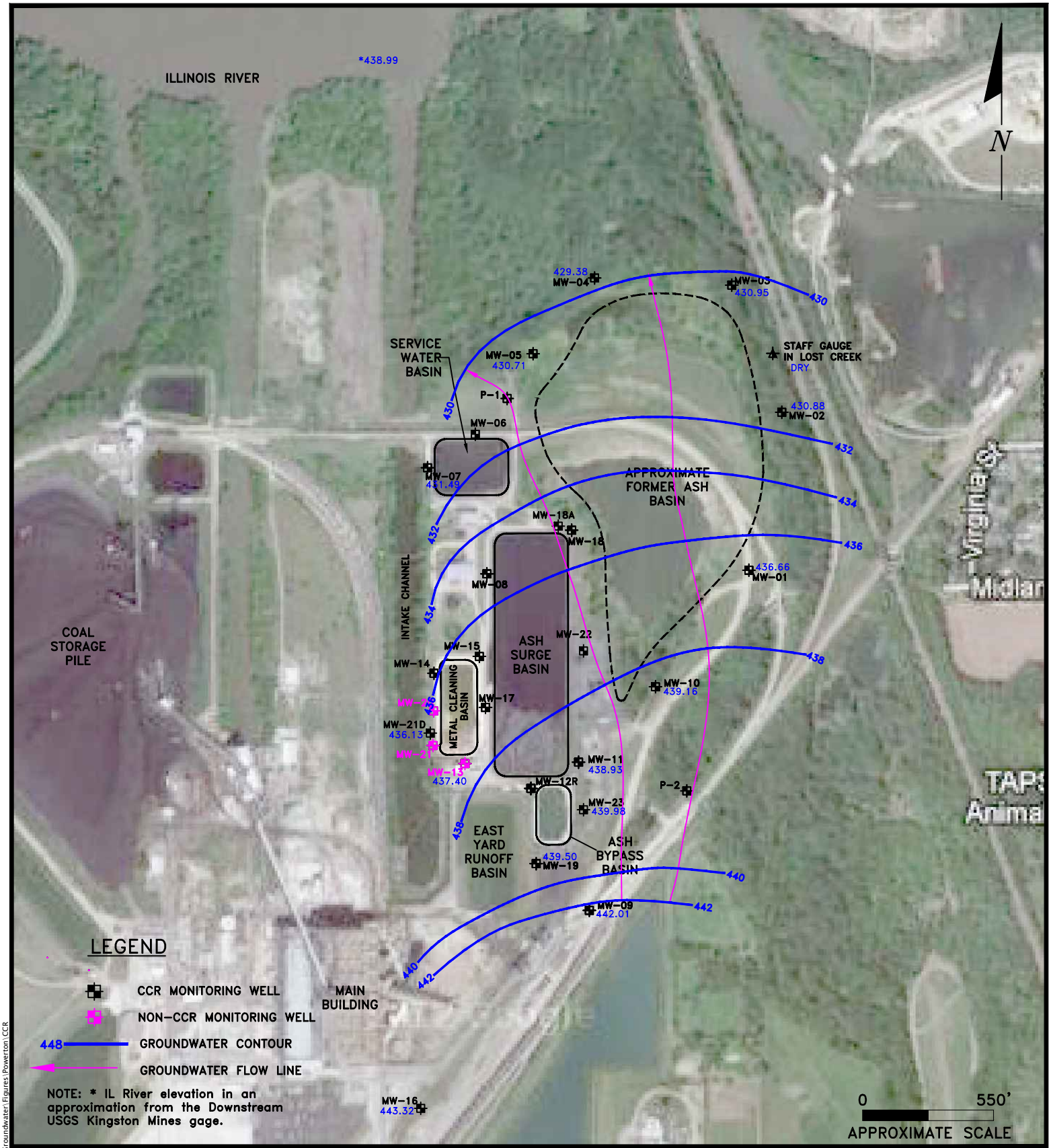



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# POTENTIOMETRIC MAP
## SAND/GRAVEL UNIT 09/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: December 31, 2024 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

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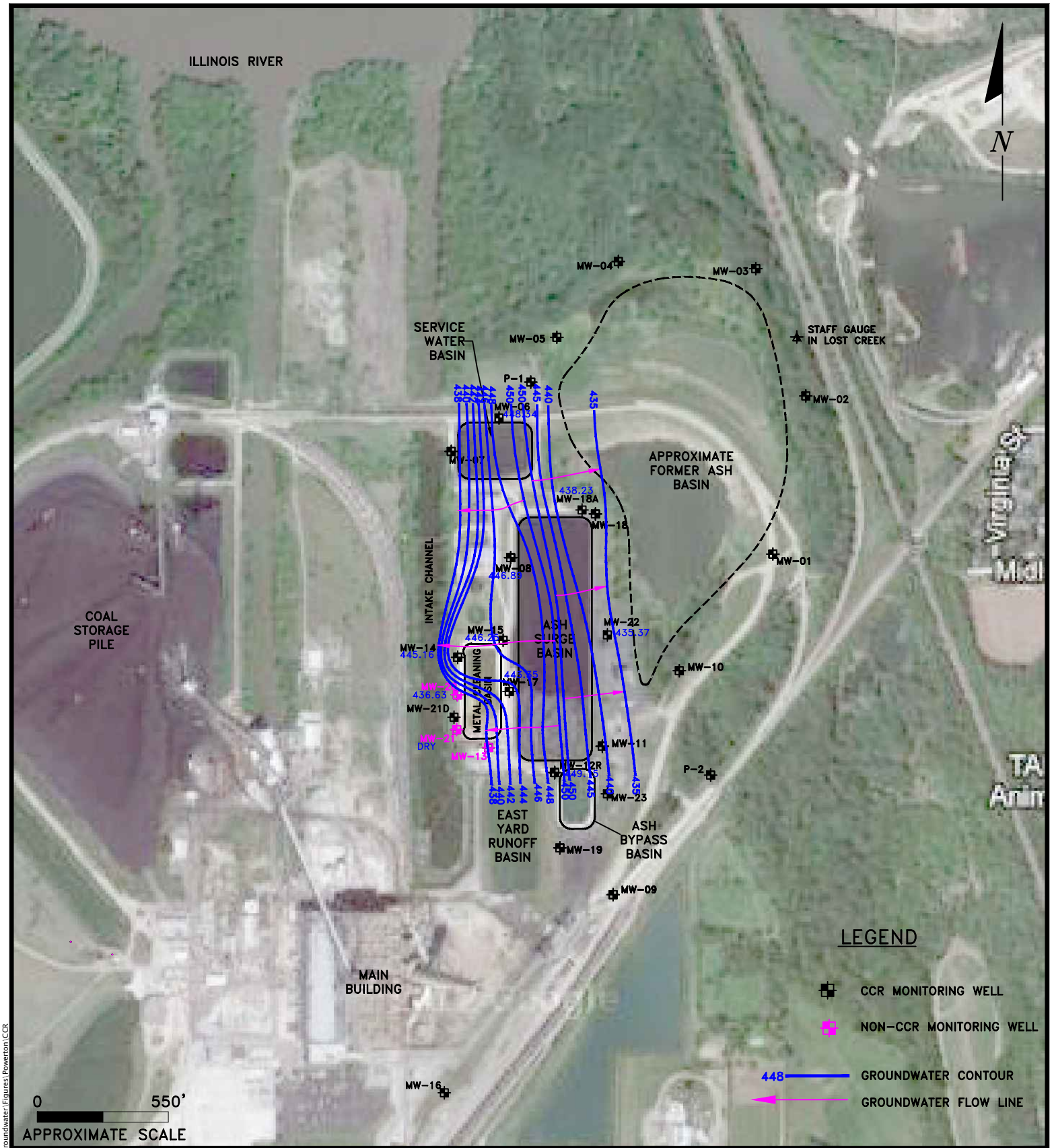


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# POTENTIOMETRIC MAP
# SILT/CLAY UNIT 10/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: January 2, 2025

KPRG Project No. 12313.1 | ATTACHMENT 1

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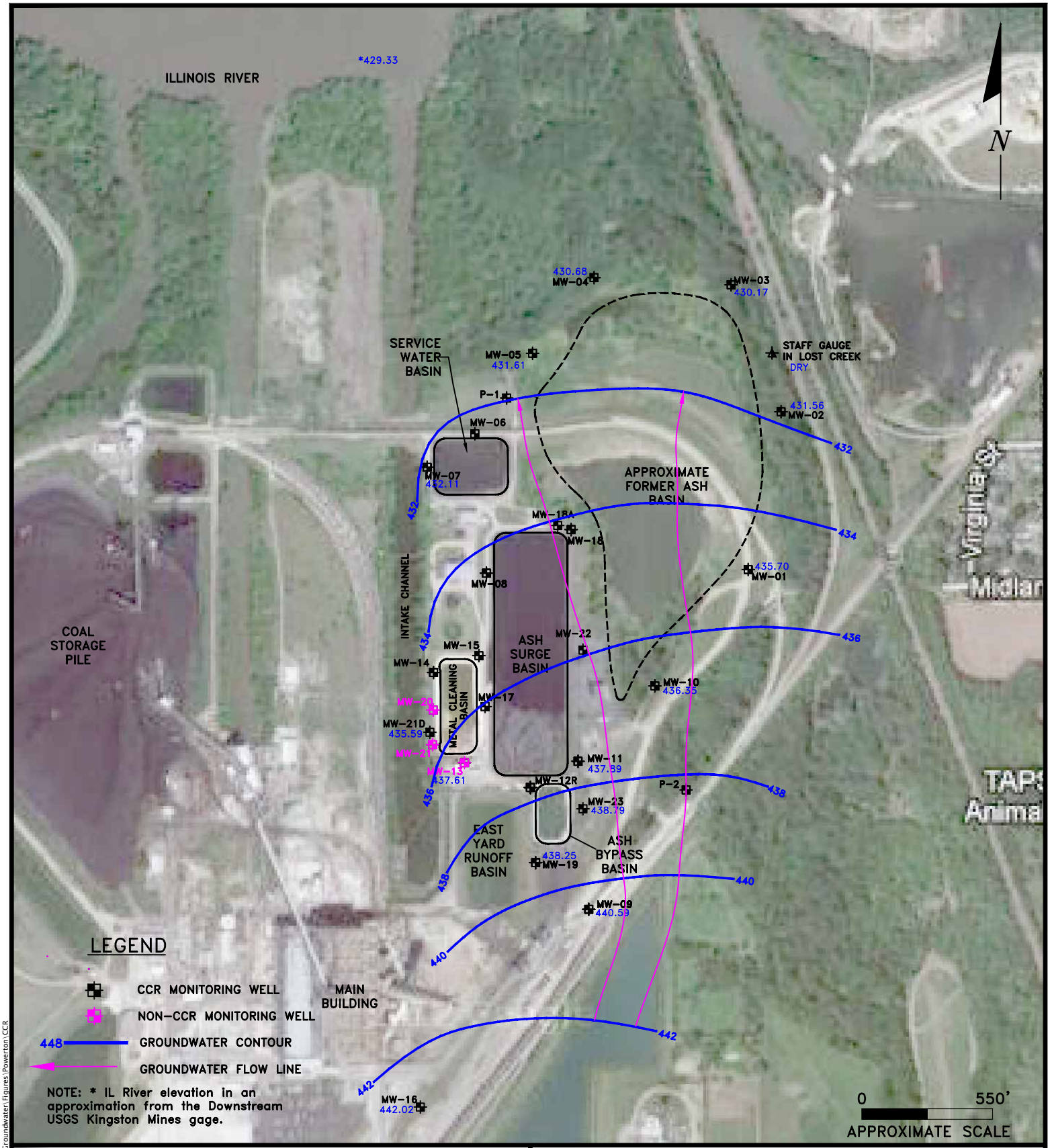



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# POTENTIOMETRIC MAP SAND/GRAVEL UNIT 10/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: December 31, 2024 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

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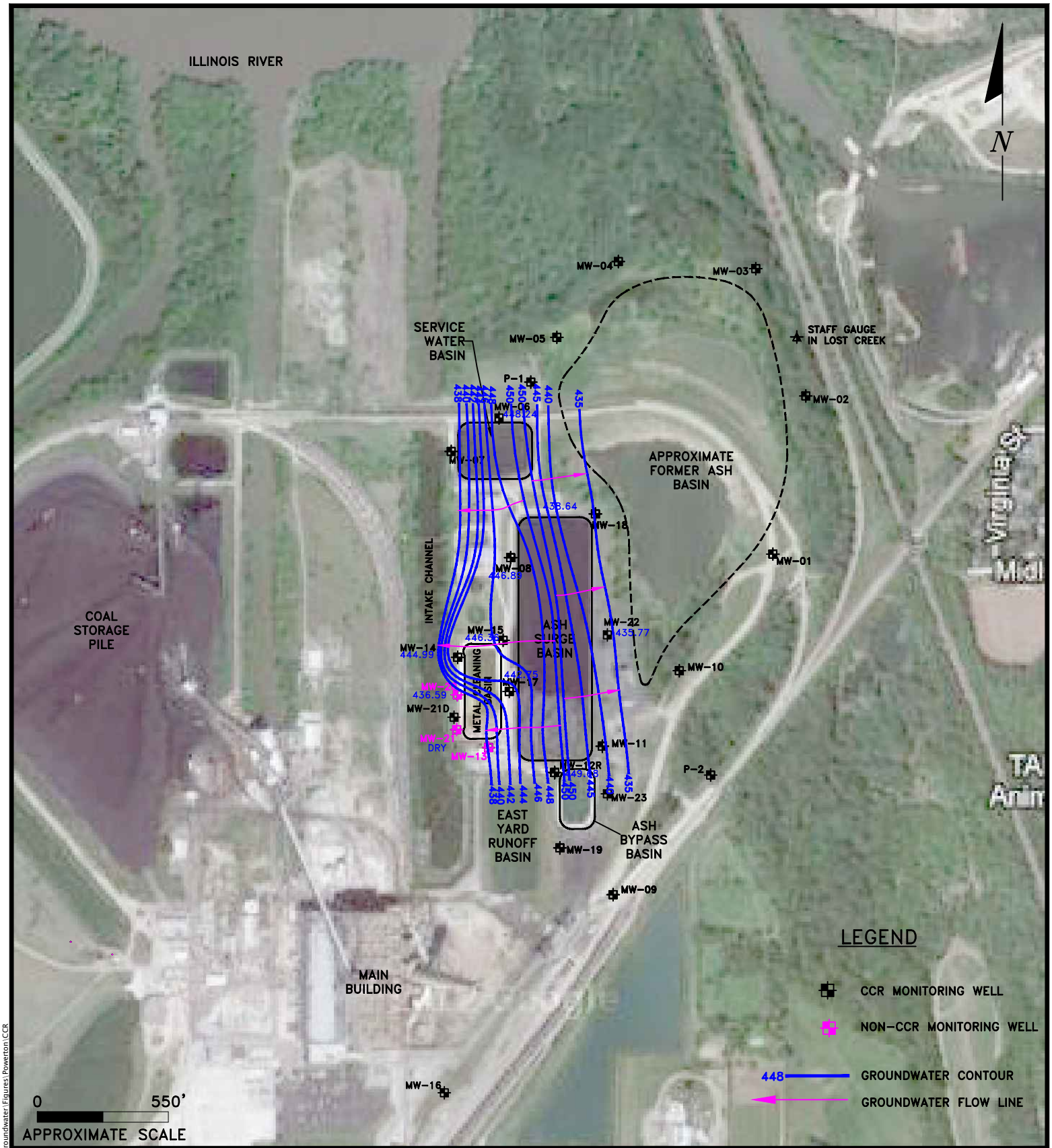



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# POTENTIOMETRIC MAP
# SILT/CLAY UNIT 11/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: January 2, 2025

KPRG Project No. 12313.1 | ATTACHMENT 1

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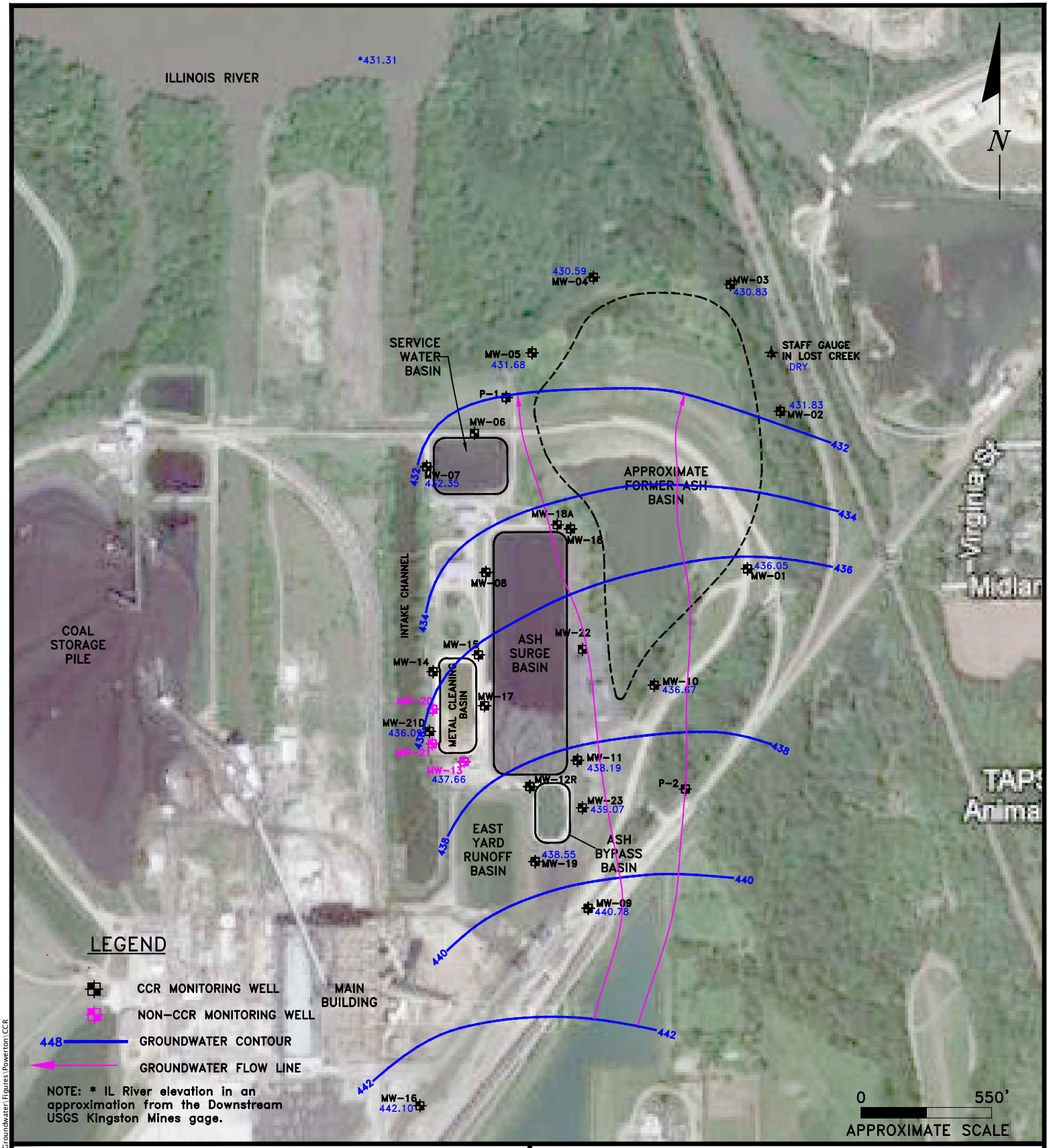


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# POTENTIOMETRIC MAP SAND/GRAVEL UNIT 11/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: December 31, 2024

KPRG Project No. 12313.1 | ATTACHMENT 1

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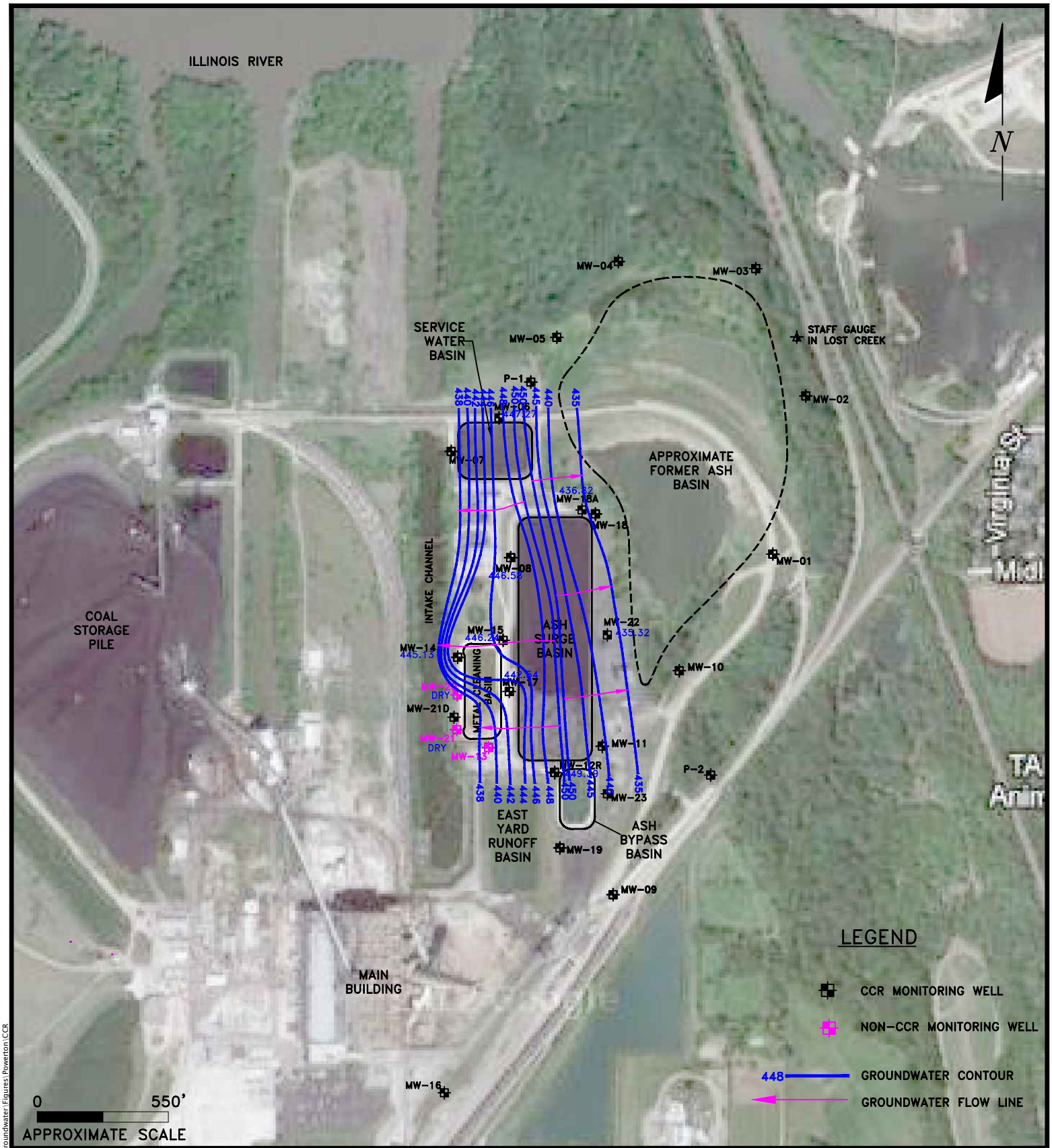



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# POTENTIOMETRIC MAP
# SILT/CLAY UNIT 12/2024

POWERTON STATION
PEKIN, ILLINOIS

Scale: 1" = 550' | Date: January 2, 2025

KPRG Project No. 12313.1 | ATTACHMENT 1

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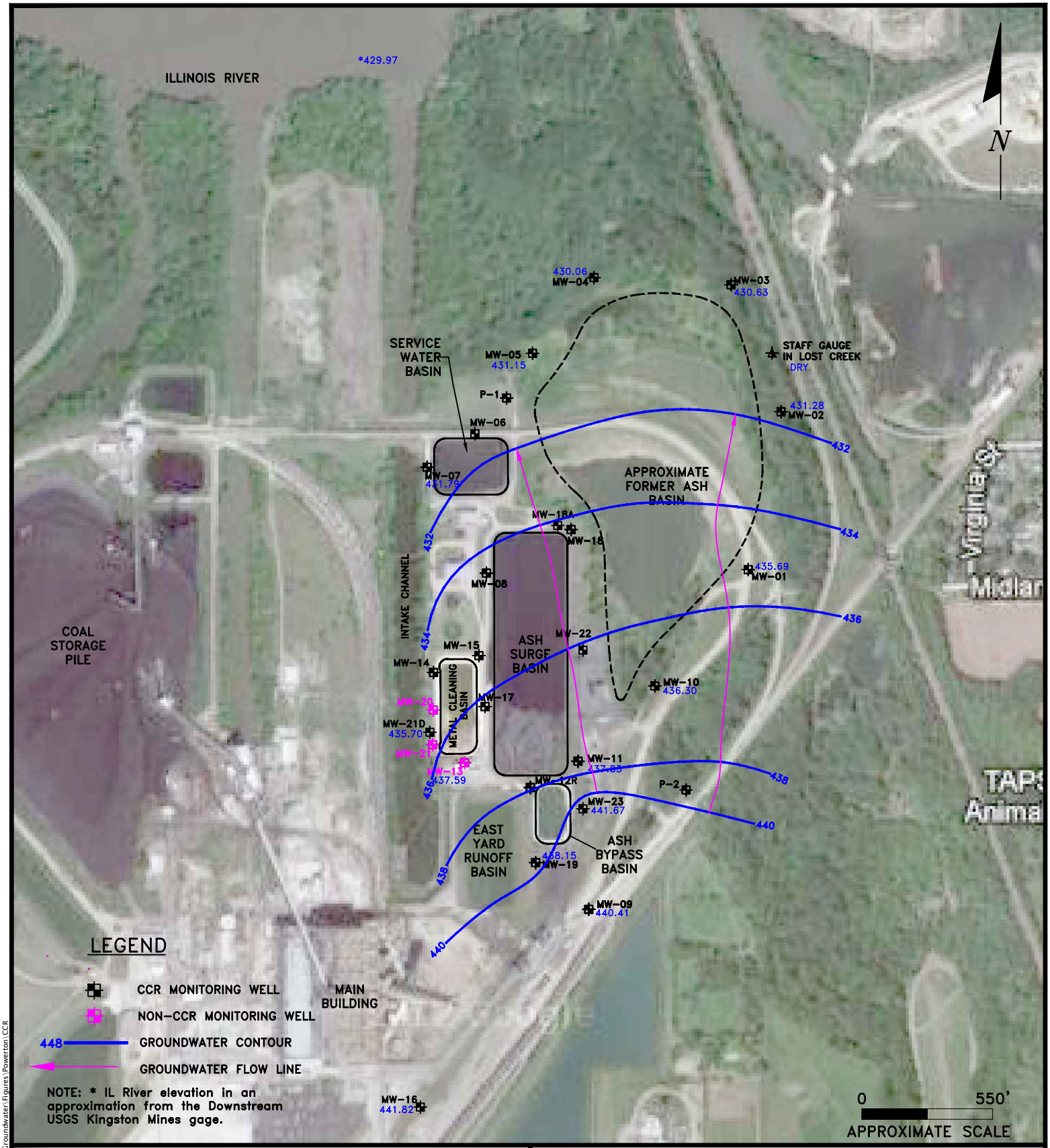



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# POTENTIOMETRIC MAP SAND/GRAVEL UNIT 12/2024

POWERTON STATION
PEKIN, ILLINOIS

| | |
|---|---|
| Scale: 1" = 550' | Date: December 31, 2024 |
| KPRG Project No. 12313.1 | ATTACHMENT 1 |

W:\Projects\Midwest Generation\12313 Ash Pond Groundwater\Figures\Powerton\CCR

# ATTACHMENT D
# 2024 MONTHLY SURFACE IMPOUNDMENT WATER ELEVATIONS

| Well ID | Date | Basin Gauge Level (ft) | Basin Surface Elevation (ft above MSL) |
|---|---|---|---|
| Former Ash Basin | 12/30/2021 | 2.6 | 439.2 |
| | 1/6/2022 | 2.6 | 439.2 |
| | 2/7/2022 | 2.3 | 438.9 |
| | 3/1/2022 | 4.6 | 441.2 |
| | 4/22/2022 | 7.6 | 444.2 |
| | 5/24/2022 | 6.0 | 442.6 |
| | 6/6/2022 | 4.9 | 441.5 |
| | 7/25/2022 | LOW | LOW |
| | 8/29/2022 | LOW | LOW |
| | 9/28/2022 | LOW | LOW |
| | 10/26/2022 | LOW | LOW |
| | 11/14/2022 | LOW | LOW |
| | 12/28/2022 | 1.6 | 438.2 |
| | 1/24/2023 | LOW | LOW |
| | 2/20/2023 | LOW | LOW |
| | 3/28/2023 | 5.5 | 442.1 |
| | 4/25/2023 | 5.1 | 441.7 |
| | 5/15/2023 | 2.2 | 438.8 |
| | 6/26/2023 | LOW | LOW |
| | 7/25/2023 | LOW | LOW |
| | 8/28/2023 | LOW | LOW |
| | 9/27/2023 | LOW | LOW |
| | 10/27/2023 | LOW | LOW |
| | 11/6/2023 | LOW | LOW |
| | 12/21/2023 | LOW | LOW |
| | 1/24/2024 | LOW | LOW |
| | 2/19/2024 | 6.8 | 443.4 |
| | 3/26/2024 | 3.68 | 440.3 |
| | 4/12/2024 | 5.7 | 442.3 |
| | 5/15/2024 | 7.7 | 444.3 |
| | 6/17/2024 | 3.9 | 440.5 |
| | 7/25/2024 | 2.8 | 439.4 |
| | 8/21/2024 | LOW | LOW |
| | 9/9/2024 | LOW | LOW |
| | 10/29/2024 | LOW | LOW |
| | 11/18/2024 | LOW | LOW |
| | 12/10/2024 | LOW | LOW |

.

Notes: LOW basin gauge level denotes a water level in the basin below the installed gauge height.

| Well ID | Date | Basin Gauge Level (ft) | Basin Surface Elevation (ft above MSL) |
|---|---|---|---|
| Metal Cleaning Basin | 12/30/2021 | DRY | DRY |
| | 1/6/2022 | DRY | DRY |
| | 2/7/2022 | 1.0 | 456.9 |
| | 3/1/2022 | 1.0 | 456.9 |
| | 4/22/2022 | DRY | DRY |
| | 5/24/2022 | 3.4 | 459.3 |
| | 6/6/2022 | DRY | DRY |
| | 8/29/2022 | DRY | DRY |
| | 9/28/2022 | DRY | DRY |
| | 10/26/2022 | DRY | LOW |
| | 11/14/2022 | DRY | LOW |
| | 12/28/2022 | 2.2 | 458.1 |
| | 1/24/2023 | 2.5 | 458.4 |
| | 2/20/2023 | LOW | LOW |
| | 3/28/2023 | 1.6 | 457.5 |
| | 4/25/2023 | 8.0 | 463.9 |
| | 5/15/2023 | LOW | LOW |
| | 6/26/2023 | DRY | DRY |
| | 7/25/2023 | LOW | LOW |
| | 8/28/2023 | LOW | LOW |
| | 9/28/2023 | LOW | LOW |
| | 10/27/2023 | 0.6 | 456.5 |
| | 11/6/2023 | LOW | LOW |
| | 12/21/2023 | LOW | LOW |
| | 1/24/2024 | 0.9 | 456.8 |
| | 2/19/2024 | 1.0 | 456.9 |
| | 3/26/2024 | 1.0 | 456.9 |
| | 4/12/2024 | 2.4 | 458.3 |
| | 5/15/2024 | 5.9 | 461.8 |
| | 6/17/2024 | 5.7 | 461.6 |
| | 7/25/2024 | 0.5 | 456.4 |
| | 8/21/2024 | LOW | LOW |
| | 9/9/2024 | DRY | DRY |
| | 10/29/2024 | DRY | DRY |
| | 11/18/2024 | LOW | LOW |
| | 12/10/2024 | 6.5 | 462.4 |

DRY- no water in basin

LOW- water in basin is below installed gauge level

| Pond | Date | Basin Gauge Level (ft) | Basin Surface Elevation (ft above MSL) |
|---|---|---|---|
| Ash Bypass Basin | 12/30/2021 | 2.1 | 459.1 |
| | 1/6/2022 | 2.2 | 459.2 |
| | 2/7/2022 | 2.2 | 459.2 |
| | 3/1/2022 | 2.2 | 459.2 |
| | 4/22/2022 | 1.5 | 459.2 |
| | 5/24/2022 | 3.3 | 460.3 |
| | 6/6/2022 | 2.1 | 459.1 |
| | 8/29/2022 | 1.6 | 458.6 |
| | 9/28/2022 | 1.3 | 458.7 |
| | 10/26/2022 | 1.4 | 458.4 |
| | 11/14/2022 | 1.4 | 458.4 |
| | 12/28/2022 | 2.0 | 459 |
| | 1/24/2023 | 2.0 | 459 |
| | 2/20/2023 | 2.0 | 459 |
| | 3/28/2023 | 1.9 | 458.9 |
| | 4/25/2023 | 1.9 | 458.9 |
| | 5/15/2023 | 1.9 | 458.9 |
| | 6/26/2023 | LOW | LOW |
| | 7/25/2023 | 1.0 | 458 |
| | 8/28/2023 | 1.8 | 458.8 |
| | 9/28/2023 | 1.7 | 458.8 |
| | 10/27/2023 | 1.9 | 458.9 |
| | 11/6/2023 | 1.8 | 458.8 |
| | 12/21/2023 | 2.0 | 459 |
| | 1/24/2024 | 2.4 | 459.7 |
| | 2/19/2024 | 2.2 | 459.2 |
| | 3/26/2024 | DRY | DRY |
| | 4/12/2024 | DRY | DRY |
| | 5/15/2024 | DRY | DRY |
| | 6/17/2024 | DRY | DRY |
| | 7/25/2024 | DRY | DRY |
| | 8/21/2024 | DRY | DRY |
| | 9/9/2024 | DRY | DRY |
| | 10/29/2024 | 4.7 | 461.7 |
| | 11/18/2024 | 4.4 | 461.4 |
| | 12/10/2024 | 4.5 | 461.5 |

DRY- Ash Bypass Basin pond was emptied for new liner.

LOW- Water level in basin was below installed gauge.

| Pond | Date | PI System Reading (in) | Basin Surface Elevation (ft above MSL) |
|---|---|---|---|
| Ash Surge Basin | 12/30/2021 | 44.0 | 462.33 |
| | 1/6/2022 | 38.0 | 461.83 |
| | 2/7/2022 | 57.0 | 463.42 |
| | 3/1/2022 | 44.0 | 462.33 |
| | 4/22/2022 | 52.0 | 463.00 |
| | 5/24/2022 | 44.0 | 462.33 |
| | 6/6/2022 | 37.0 | 461.75 |
| | 8/29/2022 | 49.0 | 462.75 |
| | 9/28/2022 | 58.0 | 463.50 |
| | 10/26/2022 | 50.0 | 462.83 |
| | 11/14/2022 | 45.0 | 462.42 |
| | 12/28/2022 | 56.0 | 463.33 |
| | 1/24/2023 | 50.0 | 462.83 |
| | 2/20/2023 | 41.0 | 462.08 |
| | 3/28/2023 | 52.0 | 463.00 |
| | 4/25/2023 | 53.0 | 463.08 |
| | 5/15/2023 | 50.0 | 462.83 |
| | 6/26/2023 | 45.0 | 462.42 |
| | 7/25/2023 | 70.0 | 464.50 |
| | 8/28/2023 | 49.0 | 462.75 |
| | 9/28/2023 | 55.0 | 463.25 |
| | 10/27/2023 | 65.0 | 464.1 |
| | 11/6/2023 | 43.0 | 462.3 |
| | 12/21/2023 | 61.0 | 464.9 |
| | 1/24/2024 | 50.0 | 461.7 |
| | 2/19/2024 | 48.8 | 461.8 |
| | 3/26/2024 | 55.3 | 462.0 |
| | 4/12/2024 | 44.1 | 461.2 |
| | 5/15/2024 | 45.6 | 461.4 |
| | 6/17/2024 | 60.0 | 462.6 |
| | 7/25/2024 | 53.1 | 462.0 |
| | 8/21/2024 | 51.4 | 461.9 |
| | 9/9/2024 | 53.0 | 462.0 |
| | 10/29/2024 | 9.1 | 458.3 |
| | 11/18/2024 | 10.0 | 458.3 |
| | 12/10/2024 | 10.0 | 458.3 |

Note: On October 15, 2024 the Ash Surge Basin was taken out of service.