

December 19, 2025

Project No. 2103683

Mr. Eric Kovatch, P.G.  
WEC Energy Group – Business Services  
333 W. Everett Street, A231  
Milwaukee, WI 53203

**Re: 2025 Landfill Inspection Report**  
**Presque Isle Power Plant Ash Landfill No. 3**  
**We Energies**  
**Marquette Township, Michigan**

Dear Mr. Kovatch:

GEI Consultants of Michigan, P.C. (GEI) is pleased to provide this landfill inspection report for the We Energies Presque Isle Power Plant (PIPP) Ash Landfill No. 3. The inspection was completed to comply with 40 CFR 257 Subpart D – *Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments* and specifically with § 257.84(b) *Annual inspections by a qualified professional engineer.*

## **§ 257.84 Inspection Requirements for CCR Landfills**

*(b) Annual inspections by a qualified professional engineer.*

(1) Existing and new CCR landfills and any lateral expansion of a CCR landfill must be inspected on a periodic basis by a qualified professional engineer to ensure that the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and accepted good engineering standards. The inspection must, at a minimum, include:

- (i) A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record (e.g., the results of inspections by a qualified person and results of previous annual inspections); and
- (ii) A visual inspection of the CCR unit to identify signs of distress or malfunction of the CCR unit.

(2) *Inspection report.* The qualified professional engineer must prepare a report following each inspection that addresses the following:

- (i) Any changes in geometry of the structure since the previous annual inspection;
- (ii) The approximate volume of CCR contained in the unit at the time of the inspection;

- (iii) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit; and
- (iv) Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.

## Background

We Energies owns and operates the PIPP Ash Landfill No. 3, located in the NW 1/2 of the SE 1/4 of Section 6, Township 48 North, Range 25 West, approximately 4 miles west of the decommissioned Presque Isle Power Plant in Marquette Township, Marquette County, Michigan. The landfill is permitted by the Michigan Department of Environmental Quality (MDEQ) under Construction Permit No. 0400 dated February 27, 2002, and the current Operating License. The Site Location Figure, attached in Appendix A, shows the location of the landfill relative to the decommissioned Presque Isle Power Plant and the City of Marquette, Michigan.

Cell 1 of Landfill No. 3 was constructed in the 2003 construction season and placed into service on October 8, 2005. Cell 2 was constructed during the 2007 construction season and placed into service on October 10, 2008. The perimeter slopes of Cell 1 were closed in 2014, and the remainder of the landfill was closed in 2019. With the issuance of the Cell 2 closure construction documentation report approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE) on October 21, 2019, PIPP Ash Landfill No. 3 began the 30-year post-closure care period.

GEI was retained to perform an annual inspection of the landfill in compliance with *§ 257.84(b) Annual inspections by a qualified professional engineer*. The inspection was performed on September 8, 2025. This cover letter, Appendix A - Site Location Figure, Appendix B - Annual Inspection Form, and Appendix C – Landfill Inspection Photo Log, constitute the entirety of this report.

## Site Inspections

The landfill site inspection was performed on September 8, 2025. The inspection included a discussion with landfill operation personnel to discuss the daily operation of the facility including leachate hauling, operation of the leachate collection and removal system, and stormwater management; review of the leachate hauling and landfill operating records; observation of the existing site conditions including the access road and cell entrance, and the Landfill No. 3 final cover slopes.

Based on review of the site and discussion with the landfill operation personnel, post-closure landfill operations are running smoothly and consistently. Leachate hauling has been consistent with operators keeping the volume in the tank under 30,000 gallons. Leachate levels in the sumps are being maintained with less than 1-foot of head on the liner. We Energies began transporting and disposing of leachate at the Marquette Area Wastewater Treatment Facility on April 23, 2019.

Following the discussion with the operation personnel, GEI performed a site walk and inspected the landfill. Overall, the landfill is in good condition. The perimeter slopes of Cell 1 closed in 2014, and the Cell 2 perimeter slopes closed in 2019 are in good condition. The vegetation was well established on

most areas of the cover, with bare spots observed periodically on the top of the cover in addition to the west, south, and east slopes. We Energies will be notified of these bare spots and will be reseeded next growing season. Despite these bare spots, no significant erosion, no woody vegetation, no animal burrows, no signs of differential settlement, and no areas of instability were observed on Landfill No. 3.

The We Energies PIPP Ash Landfill No. 3 is a double lined landfill with a primary leachate collection system and secondary leachate detection system. The leachate collection system is a network of perforated collection pipes running east-west across the landfill within a 12-inch sand drainage layer. The pipes drain to the leachate collection sumps along the east perimeter berm of the landfill. The sump in Cell 2 gravity drains to the sump in Cell 1 where it is extracted by sump pumps installed in sideslope riser pipes. The sump in Cell 1 has two extraction pumps that are individually controlled by pressure transducers installed inside each side slope riser pipe. The pumps are powered on when the leachate head level in the side slope riser reaches 36 inches and power off when the level reaches 18 inches. In the event of a pump failure a high-level alarm is activated when the sump level reaches 54 inches of leachate head. In accordance with Part 115, Solid Waste Management of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, We Energies is obligated to maintain the leachate head level to less than 12 inches on the landfill liner system, excluding the sump area. The leachate head level in the sump would need to 62.4 inches of head in the sump to reach 12 inches at any location on the landfill liner system.

The leak detection system consists of a geocomposite drainage layer between the primary composite liner system and a secondary geomembrane liner. A secondary sump with a side slope riser pipe and leachate extraction pump is installed in each cell. Head level in the primary and secondary sumps are included on the inspection form attached in Appendix B.

## Conclusion

On September 8, 2025, the annual inspection of the We Energies PIPP Ash Landfill No. 3 was completed in compliance with *§ 257.84(b) Annual inspections by a qualified professional engineer*. Overall, the landfill is in good condition. The leachate system is functioning as designed and the landfill operators are keeping up with leachate hauling. Based on observations and discussions with the landfill personnel, the landfill is being operated in accordance with Construction Permit No.0400 dated February 27, 2002; the current Operating License; the requirements of Part 115, Solid Waste Management of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and 40 CFR 257 Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments.

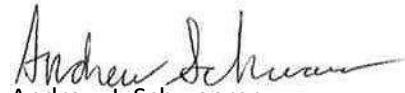
The inspection was completed by John M. Trast, P.E., D.GE.

*"I am a licensed professional engineer in the State of Michigan in accordance with Article 20 of the Occupational Code, Public Act 299 of 1980, as amended. This document has been prepared in accordance with the Michigan Administrative Rules, Department of Licensing and Regulatory Affairs, Professional Engineers – General Rules, Part 3 – Standards of Practice and Professional Conduct; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements of Part 115 of PA 451, as amended and 40 CFR 257."*

If you have any questions regarding this letter-report, please contact John Trast at 920.455.8299.

Sincerely,

**GEI CONSULTANTS OF MICHIGAN, P.C.**



Andrew J. Schwoerer  
Project Professional



John M. Trast, P.E., D.GE  
Vice President

AJS/JMT:amp  
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#### Appendices

- Appendix A Site Location Figure
- Appendix B Annual Inspection Form
- Appendix C Landfill Inspection Photo Log



## Appendix A Site Location Figure

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We Energies  
Marquette, Michigan



Presque Isle Power Plant  
Ash Landfill #3  
Site Location Figure

Presque Isle Power Plant Ash Landfill

Project 2103691

December 2025

Fig. 1

2025 Landfill Inspection Report  
Presque Isle Power Plant Ash Landfill No. 3  
We Energies  
Marquette Township, Michigan  
December 19, 2025

## **Appendix B Annual Inspection Form**

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## PIPP ASH LANDFILL #3 CCR COMPLIANCE - ANNUAL INSPECTION FORM

**INSPECTOR:** John M. Trast, P.E., D.GE

**INSPECTION DATE/TIME:** 9/8/2025, 11:00 A.M.

### WEATHER:

Temperature: 60's  
Conditions: Sunny  
Wind: Mild  
Wind Direction: W  
Precipitation: None

### LEACHATE COLLECTION SYSTEM:

<u>Load-out Facility:</u>	<u>Sump:</u>
High level alarms:	No
Low level alarms:	No
Leak alarms	No
Tank Level :	---
Tank Volume:	54170 gallons
Pump:	Available
Pad Condition:	Good
	<b>Note:</b> 62.4" in P1-1 or P1-2 equates to 12" of head on base liner

Comments: Leachate volume in the tank is being managed by the operators to generally keep the volume less than 30,000 gallons (total capacity is 100,000 gallons). Leachate levels in the sumps are being maintained in compliance with the operating license requirements (no alarms) of less than 1-foot of head on the liner.

### STABILITY/EROSION OF FINAL COVERS & WASTE SLOPES:

Final Covers:

Waste Slopes:

Comments : The final cover slopes appear stable with no observed instability, no significant erosion, no woody vegetation, no animal burrows, or concerns regarding the final cover slopes. Everything appeared to be in good condition with no observed instability or significant erosion.

**Note: Check mark indicates slope appears stable and no significant erosion.**

### LANDFILL OPERATIONS:

#### Fugitive Dust Control:

Tracking Pads :   
Cattle Guards :   
Access Road Clean:   
Landfill Surfaces Vegetated:   
Airbourne Dust Visible: No

Sign of Recent Dust Deposition: No

#### Stormwater Management

Exterior Ditches:   
Interior Ditches:   
Catch Basin:   
Culverts:

Comments: The landfill was permanently closed upon receipt of the construction documentation report approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE) on October 21, 2019, beginning the 30-year post closure care period.

**Note: Check mark indicates that the features are acceptable.**

## Appendix C Landfill Inspection Photo Log

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# Presque Isle Power Plant Ash Landfill No. 3 Inspection - Photo Log

Date: 12/19/2025

Project No.: 2103683

Client: We Energies



Photo No. 1 – Landfill No. 3, Cell 2 leachate collection riser vault.	2
Photo No. 2 – East slope of Landfill No. 3, looking northwest.	2
Photo No. 3 – South slope of Landfill No. 3, looking west.	3
Photo No. 4 – Landfill No. 3 east and north slopes and leachate loadout facility.	3
Photo No. 5 – Landfill No. 3 leachate loadout facility screen.	4
Photo No. 6 – Landfill No. 3 leachate loadout facility screen.	4
Photo No. 7 – North slope of Landfill No. 3, looking west.	5
Photo No. 8 – Northwest corner of Landfill No. 3, looking northwest.	5
Photo No. 9 – Top of Landfill No. 3, looking south.	6
Photo No. 10 – South slope of Landfill No. 3, looking southwest.	6
Photo No. 11 – West slope of Landfill No. 3, looking west.	7
Photo No. 12 – Landfill No. 3, looking northeast.	7
Photo No. 13 – Landfill No. 3, looking west.	8
Photo No. 14 – Landfill No. 3, looking southeast.	8

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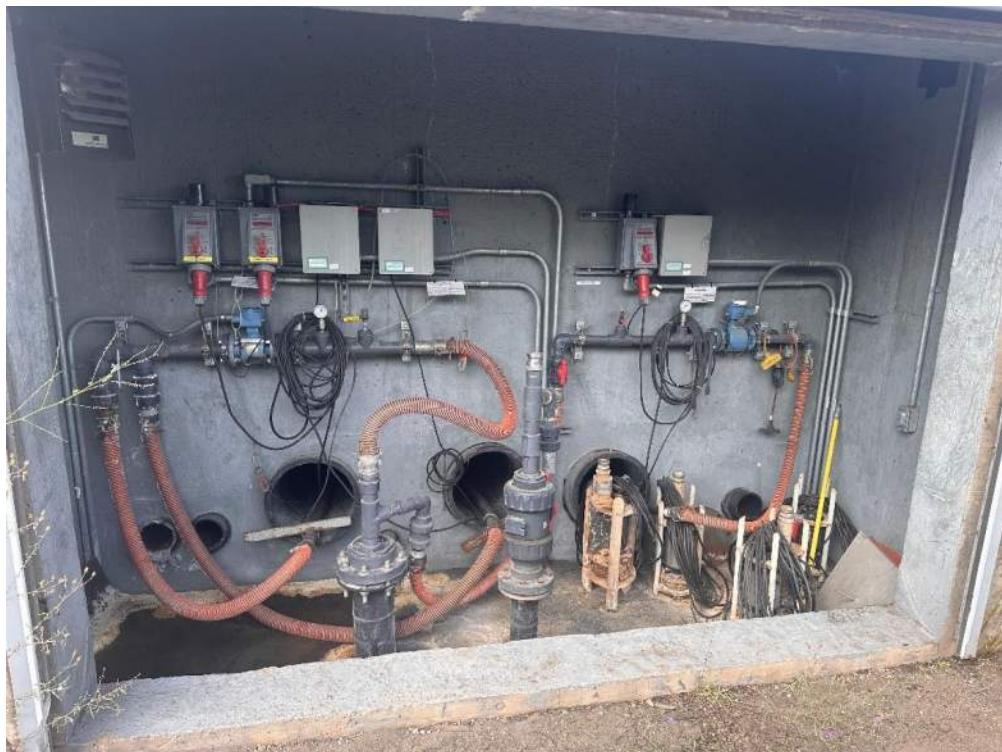


Photo No. 1 – Landfill No. 3, Cell 2 leachate collection riser vault.



Photo No. 2 – East slope of Landfill No. 3, looking northwest.

# Presque Isle Power Plant Ash Landfill No. 3 Inspection – Photo Log

Date: 12/19/2025

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Photo No. 3 – South slope of Landfill No. 3, looking west.



Photo No. 4 – Landfill No. 3 east and north slopes and leachate loadout facility.

# Presque Isle Power Plant Ash Landfill No. 3 Inspection - Photo Log

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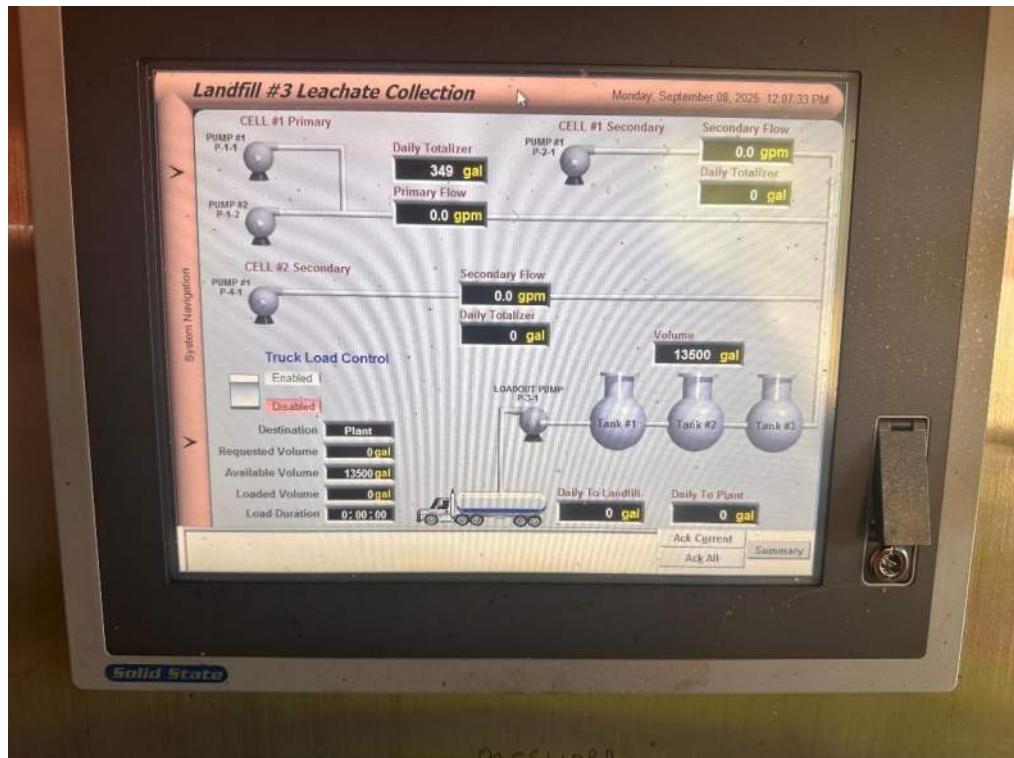


Photo No. 5 – Landfill No. 3 leachate loadout facility screen.

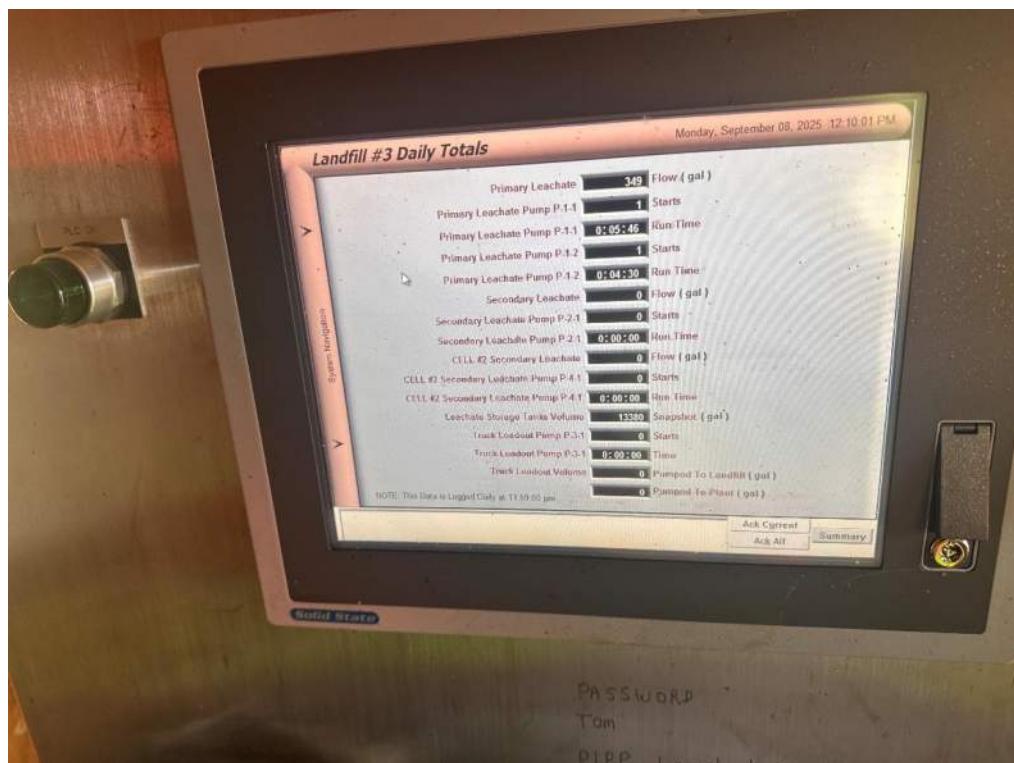


Photo No. 6 – Landfill No. 3 leachate loadout facility screen.

# Presque Isle Power Plant Ash Landfill No. 3 Inspection – Photo Log

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Photo No. 7 – North slope of Landfill No. 3, looking west.



Photo No. 8 – Northwest corner of Landfill No. 3, looking northwest.

# Presque Isle Power Plant Ash Landfill No. 3 Inspection – Photo Log

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Photo No. 9 – Top of Landfill No. 3, looking south.



Photo No. 10 – South slope of Landfill No. 3, looking southwest.

# Presque Isle Power Plant Ash Landfill No. 3 Inspection – Photo Log

Date: 12/19/2025

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Photo No. 11 – West slope of Landfill No. 3, looking west.



Photo No. 12 – Landfill No. 3, looking northeast.

# Presque Isle Power Plant Ash Landfill No. 3 Inspection – Photo Log

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Photo No. 13 – Landfill No. 3, looking west.



Photo No. 14 – Landfill No. 3, looking southeast.