

Prepared for
We Energies

Date
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Project No.
1940114239

2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PRESQUE ISLE POWER PLANT ASH LANDFILL NO. 3

2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PRESQUE ISLE POWER PLANT ASH LANDFILL NO. 3

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ACRONYMS AND ABBREVIATIONS

§	Section
40 C.F.R.	Title 40 of the Code of Federal Regulations
ASD	Alternate Source Demonstration
CCR	Coal Combustion Residuals
GWPS	groundwater protection standard
NA	not applicable
No.	number
PIPP	Presque Isle Power Plant
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SSI	Statistically Significant Increase
TBD	To be Determined

EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.90(e) for the Ash Landfill located at the Presque Isle Power Plant (PIPP) in Marquette, Michigan.

Groundwater is being monitored at PIPP Ash Landfill Number (No.) 3 in accordance with the Detection Monitoring Program requirements specified in 40 C.F.R. § 257.94.

No changes were made to the monitoring system in 2025 (no wells were installed or decommissioned).

In 2025, groundwater analytical data was evaluated for statistically significant increases (SSIs) over background concentrations for 40 C.F.R. § 257 Appendix III constituents in groundwater monitoring wells at PIPP Ash Landfill No. 3. The following constituents and wells had SSIs reported in 2025:

- Calcium (Ca) at wells MW70, MW79, MW80PR, and MW95
- pH at well MW80PR
- Total Dissolved Solids (TDS) at wells MW70 and MW80PR

Alternate Source Demonstrations (ASDs) prepared in prior years for these parameters and monitoring locations provide lines of evidence that the SSIs observed during the Detection Monitoring Program were not due to a release from PIPP Ash Landfill No. 3 but were either from an error in sampling or analysis or from naturally occurring conditions (*e.g.*, natural variation in groundwater quality).

PIPP Ash Landfill No. 3 remains in the Detection Monitoring Program in accordance with 40 C.F.R. § 257.94.

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of We Energies, to provide the information required by 40 C.F.R. § 257.90(e) for the PIPP Ash Landfill No. 3 located in Marquette, Michigan.

In accordance with 40 C.F.R. § 257.90(e), the owner or operator of a coal combustion residuals (CCR) unit must prepare an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year that documents the status of the Groundwater Monitoring and Corrective Action Program for the CCR unit (**Section 2**), summarizes key actions completed (**Section 3**), describes any problems encountered, discusses actions to resolve the problems (**Section 4**), and projects key activities for the upcoming year (**Section 5**). At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit (**Figure 1**).
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken (**Section 3**).
3. In addition to all the monitoring data obtained under §§ 257.90 through 257.98 (**Tables 1 and 2**), a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the Detection Monitoring or Assessment Monitoring Programs (**Section 3 and Table A**).
4. A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from Detection Monitoring to Assessment Monitoring (**Section 2**) in addition to identifying the constituent(s) detected at a statistically significant increase relative to background levels) (**Table A**).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
6. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit (**Executive Summary**). At a minimum, the summary must specify all of the following:
 - i. At the start of the current annual reporting period, whether the CCR unit was operating under the Detection Monitoring Program in § 257.94 or the Assessment Monitoring Program in § 257.95.
 - ii. At the end of the current annual reporting period, whether the CCR unit was operating under the Detection Monitoring Program in § 257.94 or the Assessment Monitoring Program in § 257.95.
 - iii. If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III of § 257 pursuant to § 257.94(e):

- A. Identify those constituents listed in Appendix III of § 257 and the names of the monitoring wells associated with such an increase.
 - B. Provide the date when the Assessment Monitoring Program was initiated for the CCR unit.
- iv. If it was determined that there was a statistically significant level above the groundwater protection standard [GWPS] for one or more constituents listed in Appendix IV of § 257 pursuant to § 257.95(g) include all of the following:
- A. Identify those constituents listed in Appendix IV of § 257 and the names of the monitoring wells associated with such an increase.
 - B. Provide the date when the assessment of corrective measures was initiated for the CCR unit.
 - C. Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit.
 - D. Provide the date when the assessment of corrective measures was completed for the CCR unit.
- v. Whether a remedy was selected pursuant to § 257.97 during the current annual reporting period, and if so, the date of remedy selection.
- vi. Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

This report provides the required information for PIPP Ash Landfill No. 3 for calendar year 2025.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

No changes have occurred to the monitoring program status in calendar year 2025 and PIPP Ash Landfill No. 3 remains in the Detection Monitoring Program in accordance with 40 C.F.R. § 257.94.

3. KEY ACTIONS COMPLETED IN 2025

The Detection Monitoring Program is summarized in **Table A** on the following page. The groundwater monitoring system, including the CCR unit and all background (upgradient) and downgradient monitoring wells, is presented in **Figure 1**. No changes were made to the monitoring system in 2025.

In general, one groundwater sample was collected from each background and downgradient well during each monitoring event. All samples were collected and analyzed in accordance with the Sampling and Analysis Plan – Revision 1 (SAP; Natural Resource Technology, Inc., 2015). Potentiometric surface maps for the fourth quarter of 2024 and both monitoring events in 2025 are included in **Figures 2 through 4**. Average linear groundwater velocity was calculated for each monitoring event as noted in the tabular summary provided with each potentiometric surface map. Water level data, collected from background and downgradient monitoring wells, are included in **Table 1**. All monitoring data and analytical results obtained under 40 C.F.R. §§ 257.90 through 257.98 (as applicable) in the fourth quarter of 2024 and both monitoring events in 2025 are presented in **Table 2**. Laboratory reports for both 2025 monitoring events are included in **Appendix A**¹.

Analytical data were evaluated in accordance with the Statistical Analysis Plan (Natural Resource Technology, Inc., an OBG Company, 2017) to determine any SSIs of Appendix III parameters relative to background concentrations. Statistical background values are provided in **Table 3**. A flow chart showing the statistical methodology for determination of background values is included as **Appendix B**.

Statistical evaluation, including SSI determinations, of analytical data from the Detection Monitoring Program for the November 20, 2024 (Detection Monitoring Round 15) and May 21, 2025 (Detection Monitoring Round 16) sampling events were completed in 2025 and within 90 days of receipt of the analytical data. The SSIs identified and reported in 2025 were also reported in one or more previous sampling events. Potential alternate sources and natural variation were evaluated following those previous sampling events as outlined in the 40 C.F.R. § 257.94(e)(2). ASDs were completed and certified by a qualified professional engineer. The dates ASDs were completed are provided in the notes of **Table A**.

¹ Laboratory reports for the fourth quarter of 2024 monitoring event were provided in the 2024 annual report.

Table A. 2024-2025 Detection Monitoring Program Summary

Detection Round	Sampling Date	Analytical Data Receipt Date	Parameters Collected	SSI Wells (Parameters)	SSI(s) Determination Date	ASD Completion Date ¹
15	November 20, 2024	January 15, 2025	Appendix III	MW70 (Calcium) MW79 (Calcium) MW80PR (Calcium) MW95 (Calcium)	April 15, 2025	NA
16	May 21, 2025	June 30, 2025	Appendix III	MW70 (Calcium and TDS) MW79 (Calcium) MW80PR (Calcium, pH and TDS)	September 18, 2025	NA
17	November 20, 2025	January 5, 2026	Appendix III	TBD	TBD before April 5, 2026	TBD

Notes:

ASD: Alternate Source Demonstration

NA: not applicable

SSI: statistically significant increase

¹ The ASD previously completed on April 15, and December 4, 2018 for the PIPP Ash Landfill No. 3 provided a description, data, and pertinent information supporting an alternate source for the wells and parameters with SSIs during the November 20, 2024 and May 21, 2025 sampling events.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the Groundwater Monitoring Program during 2025. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2026

The following key activities are planned for 2026:

- Continuation of the Detection Monitoring Program with semi-annual sampling scheduled for the second and fourth quarters of 2026.
- Complete evaluation of analytical data from the downgradient wells using background data to determine whether an SSI of Appendix III parameters detected at concentrations greater than background concentrations has occurred.
- If an SSI is identified, potential alternate sources (*i.e.*, a source other than the CCR unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
 - If an alternate source is identified to be the cause of the SSI, a written demonstration will be completed within 90 days of SSI determination and included in the 2026 Annual Groundwater Monitoring and Corrective Action Report.
 - If an alternate source(s) is not identified to be the cause of the SSI, the applicable requirements of 40 C.F.R. §§ 257.94 through 257.98 as may apply in 2026 (*e.g.*, Assessment Monitoring) will be met, including associated recordkeeping/notifications required by 40 C.F.R. §§ 257.105 through 257.108.

6. REFERENCES

Natural Resource Technology, Inc., 2015, *Sampling and Analysis Plan-Revision 1, Presque Isle Power Plant Ash Landfill No. 3, Marquette, Michigan, December 8, 2015.*

Natural Resource Technology, an OBG Company, 2017, *Statistical Analysis Plan, Presque Isle Power Plant Ash Landfill No. 3, Marquette, Michigan, October 17, 2017.*

TABLES

Presque Isle-CCR
Table 1. Groundwater Elevations

Date Range: 11/01/2024 to 12/31/2025

Well Id	Date Sampled	Lab Id	GW Elv, ft
MW70	11/20/2024	AE76248	820.05
	05/21/2025	AE79287	823.89
	11/20/2025	AE83645	820.86
MW79	11/20/2024	AE76249	818.04
	05/21/2025	AE79288	819.96
	11/20/2025	AE83646	819.01
MW80PR	11/20/2024	AE76250	816.38
	05/21/2025	AE79289	819.30
	11/20/2025	AE83647	817.25
MW85	11/20/2024	AE76251	821.25
	05/21/2025	AE79290	825.23
	11/20/2025	AE83648	821.96
MW86	11/20/2024	AE76252	858.03
	05/21/2025	AE79291	856.86
	11/20/2025	AE83649	858.76
MW87	11/20/2024	AE76253	819.05
	05/21/2025	AE79292	824.46
	11/20/2025	AE83650	823.60
MW95	11/20/2024	AE76254	820.18
	05/21/2025	AE79293	822.24
	11/20/2025	AE83651	820.76

Presque Isle-CCR
Table 2. Analytical Results - Appendix III Parameters

Date Range: 11/01/2024 to 12/31/2025

Well Id	Date Sampled	Lab Id	B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
MW70	11/20/2024	AE76248	0.0230	20.5000	0.87	<0.10	7.5	3.6
	5/21/2025	AE79287	0.0099	49.7000	0.85	<0.10	7.5	2.7
	11/20/2025	AE83645	<0.0173	21.1000	0.68	<0.10	7.1	3.8
MW79	11/20/2024	AE76249	0.0291	18.0000	0.84	<0.10	6.3	5.8
	5/21/2025	AE79288	0.0223	17.4000	0.66	<0.10	6.4	4.2
	11/20/2025	AE83646	0.0293	20.2000	<0.59	<0.10	6.3	4.3
MW80PR	11/20/2024	AE76250	0.0163	44.0000	3.00	<0.10	7.8	4.3
	5/21/2025	AE79289	0.0113	46.6000	2.70	<0.10	8.0	4.2
	11/20/2025	AE83647	0.0237	45.2000	3.00	<0.10	7.7	4.2
MW85	11/20/2024	AE76251	0.0153	4.8500	0.84	<0.10	6.5	2.6
	5/21/2025	AE79290	0.0132	8.3400	0.95	<0.10	6.8	2.3
	11/20/2025	AE83648	0.0180	4.0800	<0.59	<0.10	6.5	2.4
MW86	11/20/2024	AE76252	0.0136	9.7900	3.80	<0.48	6.2	<2.2
	5/21/2025	AE79291	0.0108	3.3100	1.30	<0.10	5.8	1.0
	11/20/2025	AE83649	<0.0173	6.8800	1.40	<0.10	6.0	0.7
MW87	11/20/2024	AE76253	0.0641	12.0000	1.20	<0.10	7.1	6.2
	5/21/2025	AE79292	0.0887	11.9000	1.10	<0.10	7.1	7.6
	11/20/2025	AE83650	0.0482	12.1000	0.77	<0.10	6.9	4.3
MW95	11/20/2024	AE76254	0.0239	28.0000	0.85	<0.10	7.8	2.7

Presque Isle-CCR
Table 2. Analytical Results - Appendix III Parameters

Date Range: 11/01/2024 to 12/31/2025

			B, tot, mg/L	Ca, tot, mg/L	Cl, tot, mg/L	F, tot, mg/L	pH (field), STD	SO4, tot, mg/L
MW95	5/21/2025	AE79293	0.0209	15.1000	0.67	<0.10	6.8	2.3
	11/20/2025	AE83651	0.0265	24.1000	<0.59	<0.10	7.5	2.3

Presque Isle-CCR
Table 2. Analytical Results - Appendix III Parameters

Date Range: 11/01/2024 to 12/31/2025

Well Id	Date Sampled	Lab Id	TDS, mg/L
MW70	11/20/2024	AE76248	50.0
	5/21/2025	AE79287	146.0
	11/20/2025	AE83645	60.0
MW79	11/20/2024	AE76249	60.0
	5/21/2025	AE79288	56.0
	11/20/2025	AE83646	78.0
MW80PR	11/20/2024	AE76250	134.0
	5/21/2025	AE79289	144.0
	11/20/2025	AE83647	132.0
MW85	11/20/2024	AE76251	10.0
	5/21/2025	AE79290	30.0
	11/20/2025	AE83648	<8.7
MW86	11/20/2024	AE76252	118.0
	5/21/2025	AE79291	40.0
	11/20/2025	AE83649	74.0
MW87	11/20/2024	AE76253	66.0
	5/21/2025	AE79292	58.0
	11/20/2025	AE83650	76.0
MW95	11/20/2024	AE76254	82.0

Presque Isle-CCR
Table 2. Analytical Results - Appendix III Parameters

Date Range: 11/01/2024 to 12/31/2025

			TDS, mg/L
MW95	5/21/2025	AE79293	44.0
	11/20/2025	AE83651	90.0

Notes:

Exceedance of Background

TABLE 3
STATISTICAL BACKGROUND VALUES

2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
 PRESQUE ISLE POWER PLANT
 ASH LANDFILL NO. 3
 PRESQUE ISLE, MICHIGAN

Parameter	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Statistical Background Value (LPL/UPL)
Boron (mg/L)	11/4/2015 – 08/08/2017	24	0	Non-parametric UPL	0.28
Calcium (mg/L)	11/4/2015 – 08/08/2017	24	0	Parametric UPL	16.5
Chloride (mg/L)	11/4/2015 – 08/08/2017	24	8.33	Parametric UPL	8.53
Fluoride (mg/L)	11/4/2015 – 08/08/2017	24	95.83	Non-parametric UPL	0.12
pH (field) (SU)	11/4/2015 – 08/08/2017	24	0	Parametric LPL/UPL	5.2/7.8
Sulfate (mg/L)	11/4/2015 – 08/08/2017	24	20.83	Parametric UPL	11.4
Total Dissolved Solids (mg/L)	11/4/2015 – 08/08/2017	24	0	Parametric UPL	144

Notes:

LPL = lower prediction limit (applicable for pH only)
 mg/L = milligrams per liter
 SU = standard units
 TBD = to be determined (following collection of background data)
 UPL = upper prediction limit

FIGURES



Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

-  DOWNGRADIENT MONITORING WELL LOCATION
-  UPGRADIENT MONITORING WELL LOCATION
-  LANDFILL NO. 3



MONITORING WELL LOCATION MAP

2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PRESQUE ISLE POWER PLANT
ASH LANDFILL NO. 3
MARQUETTE COUNTY, MICHIGAN

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.





- GROUNDWATER MONITORING WELL
- ABANDONED MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (5-FT CONTOUR INTERVAL)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- LANDFILL BOUNDARY
- INFERRED ZONES WHERE THE GLACIAL DRIFT AQUIFER IS NOT PRESENT
- PROPERTY BOUNDARY

Notes
 ELEVATIONS IN PARENTHESES NOT USED FOR CONTOURING
 V_{gw} = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY



**WATER TABLE ELEVATION CONTOURS
 NOVEMBER 19-20, 2024**

**2025 ANNUAL GROUNDWATER MONITORING
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 PRESQUE ISLE POWER PLANT
 ASH LANDFILL NO. 3
 MARQUETTE COUNTY, MICHIGAN**

FIGURE 2

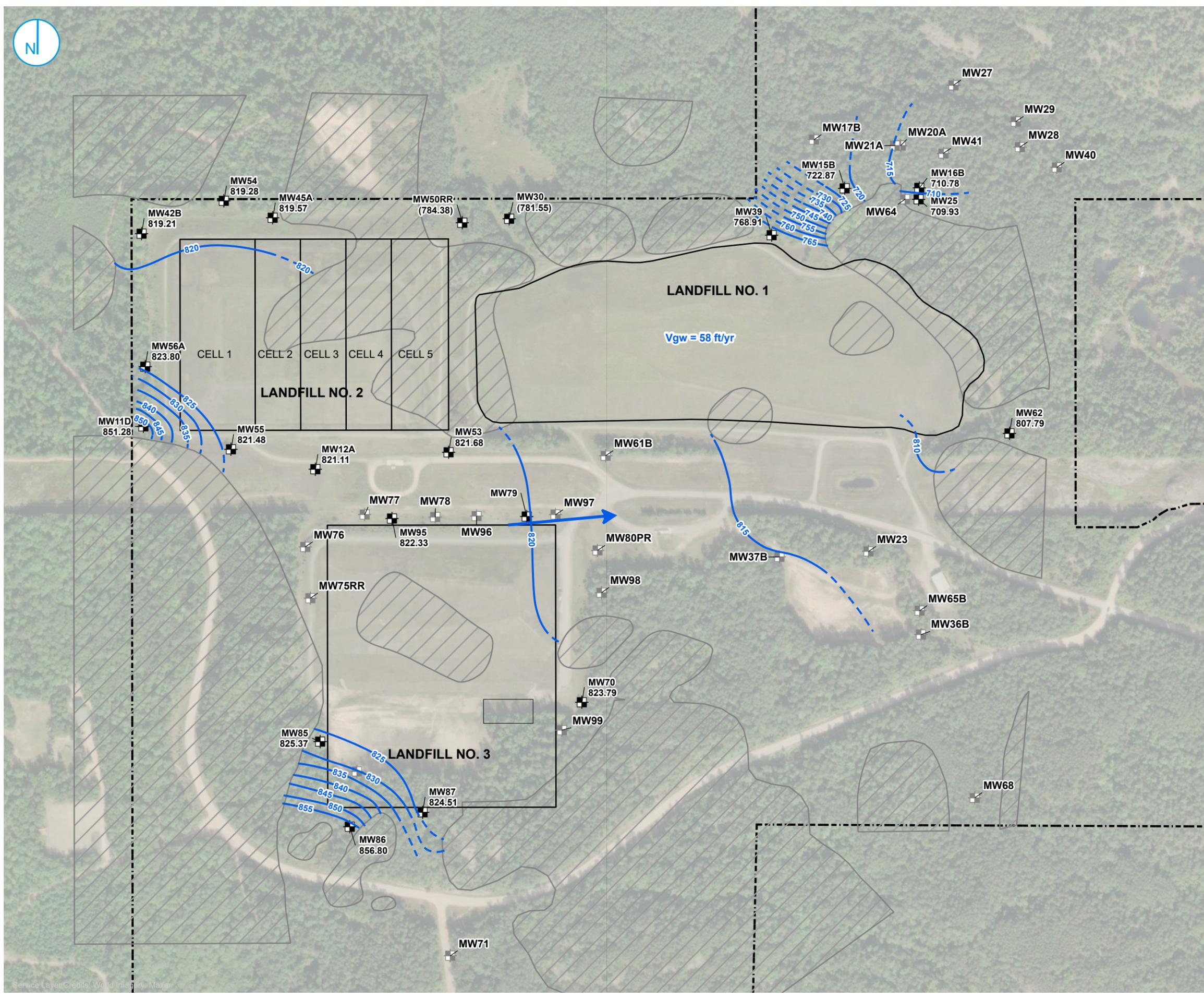


**GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS
 PRESQUE ISLE POWER PLANT ASH LANDFILLS
 MARQUETTE, MICHIGAN**

NOVEMBER 2024		$V = K i / n_e$	$V =$ Groundwater Velocity
			$K =$ Hydraulic Conductivity
			$i =$ Hydraulic Gradient (unitless value)
			$n_e =$ Effective Porosity
WATER TABLE		<i>(some contours are not shown on flow maps)</i>	
Contours	820	to	810
	Northeast of Landfill 3		
$K =$	2.38E+03 ft/yr.	Geometric mean for Landfill 3 (all)	Elevation Change
$i =$	0.032	between contours identified above	(ft)
$n_e =$	25 %		10 / 316
			0.032
$V =$	$\frac{2.38E+03 * 3.16E-02}{0.25}$		
$V =$	301 feet/year		

[U: KLT 1/29/25, C: DSL 1/30/25]





- GROUNDWATER MONITORING WELL
- ABANDONED MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (5-FT CONTOUR INTERVAL)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- INFERRED ZONES WHERE THE GLACIAL DRIFT AQUIFER IS NOT PRESENT
- LANDFILL BOUNDARY
- PROPERTY BOUNDARY

Notes
 ELEVATIONS IN PARENTHESES NOT USED FOR CONTOURING
 Vgw = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY



**WATER TABLE ELEVATION CONTOURS
 MAY 19-21, 2025**

**2025 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT
 PRESQUE ISLE POWER PLANT
 ASH LANDFILL NO. 3
 MARQUETTE COUNTY, MICHIGAN**

FIGURE 3



GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS
PRESQUE ISLE POWER PLANT ASH LANDFILLS
MARQUETTE, MICHIGAN

MAY 2025

$$V = K i / n_e$$

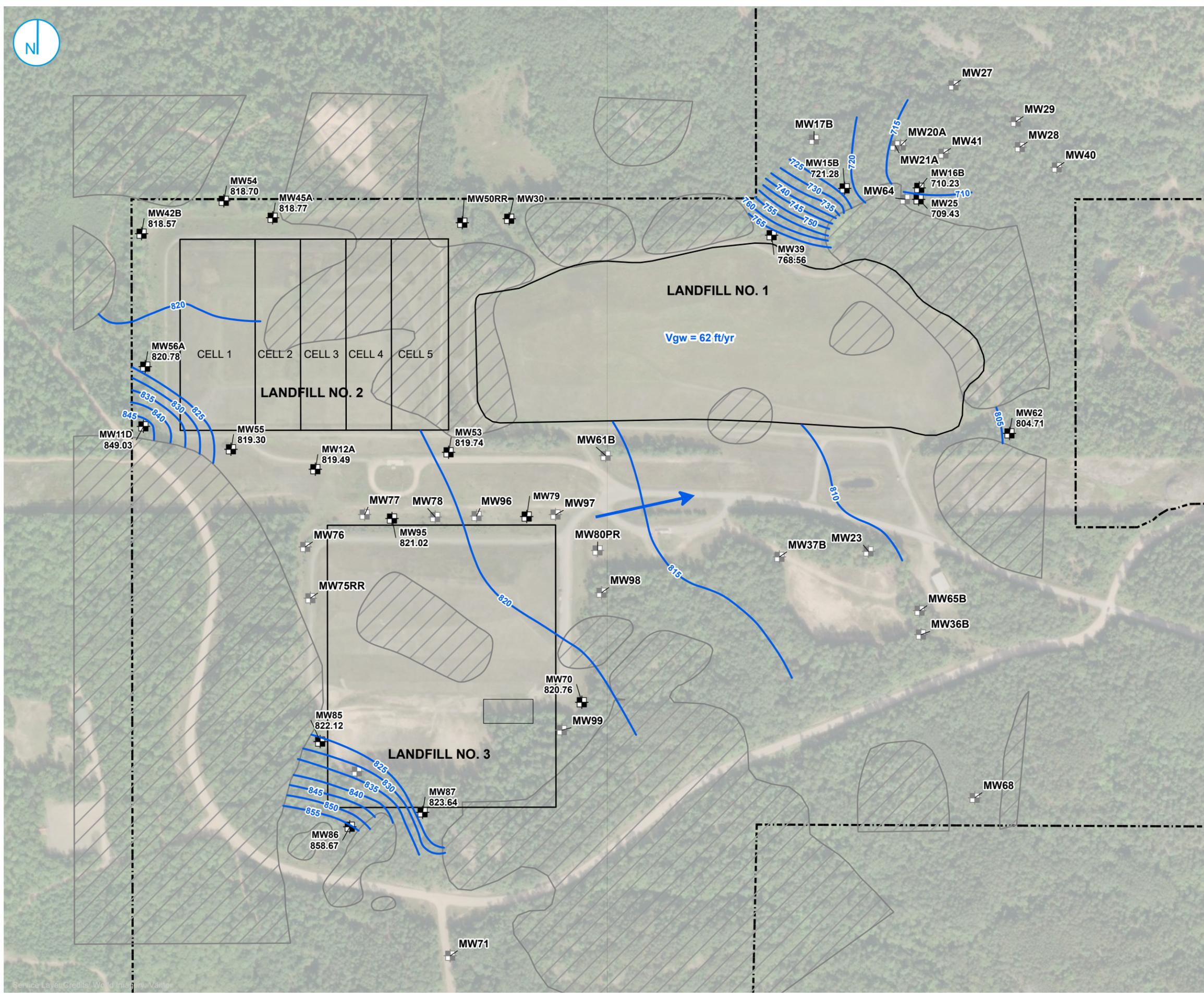
V = Groundwater Velocity
 K = Hydraulic Conductivity
 i = Hydraulic Gradient (unitless value)
 n_e = Effective Porosity

WATER TABLE

(some contours are not shown on flow maps)

Contours	820	to	815	Northeast of Landfill 3	Elevation	Distance
K =	2.38E+03 ft/yr.			Geometric mean for Landfill 3 (all)	Change	Change
i =	0.006			between contours identified above	(ft)	(ft)
n _e =	25 %				5 /	817 0.006
V =	$\frac{2.38E+03 * 6.12E-03}{0.25}$					
V =	58 feet/year					

[U: NRK 7/25/25, C: KJS 1/28/26]



- GROUNDWATER MONITORING WELL
- ABANDONED MONITORING WELL
- GROUNDWATER FLOW DIRECTION
- GROUNDWATER ELEVATION CONTOUR (5-FT CONTOUR INTERVAL)
- INFERRED GROUNDWATER ELEVATION CONTOUR
- INFERRED ZONES WHERE THE GLACIAL DRIFT AQUIFER IS NOT PRESENT
- LANDFILL BOUNDARY
- PROPERTY BOUNDARY

Notes
 ELEVATIONS IN PARENTHESES NOT USED FOR CONTOURING
 Vgw = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY



**WATER TABLE ELEVATION CONTOURS
 NOVEMBER 18-20, 2025**

**2025 ANNUAL GROUNDWATER MONITORING
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 PRESQUE ISLE POWER PLANT
 ASH LANDFILL NO. 3
 MARQUETTE COUNTY, MICHIGAN**

FIGURE 4



GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS
PRESQUE ISLE POWER PLANT ASH LANDFILLS
MARQUETTE, MICHIGAN

NOV 2025	$V = K i / n_e$		V = Groundwater Velocity	
			K = Hydraulic Conductivity	
			i = Hydraulic Gradient (unitless value)	
			n_e = Effective Porosity	
WATER TABLE	<i>(some contours are not shown on flow maps)</i>			
Contours	820	to	815	Northeast of Landfill 3
K =	2.38E+03 ft/yr.		Geometric mean for Landfill 3 (all)	Elevation Change
i =	0.006		between contours identified above	(ft)
n_e =	25 %			5 / 770
				Distance Change
				(ft)
				0.006
V =	$\frac{2.38E+03 * 6.49E-03}{0.25}$			
V =	62 feet/year			

[U: NRK 1/23/26, C: KJS 1/28/26]

APPENDICES

APPENDIX A
LABORATORY REPORTS

To: Eric Kovatch
 PSB Annex A231

From: WEC Business Services
 Laboratory Services PSBA-A070
 WDNR Cert # 241329000



Report Date: Thursday, June 26, 2025

The following are the analytical results for samples received by Laboratory Services:

Sample Description:		MW-70		PIPP Landfill 3 Annual Sample					
Sample ID:	AE79287	Sample Collection Date/Time:	05/21/2025	13:38					
Sample Received:	06/09/2025	Sample Collector:	LAUREN ANDERSON						
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	22.87	0.05	feet		1		H2OD	5/21/25	LA
Field Temperature	7.05	0.1	Degrees t		1		TEMP	5/21/25	LA
Field Conductivity	296.25	0	umhos		1		FCOND25	5/21/25	LA
Field pH	7.50	0.1	Units	0.1	1		FIELDPH	5/21/25	LA
Total Boron	9.9	3	ug/L	10	1	J	EPA 200.8	5/28/25	20
Total Calcium	49700	76.2	ug/L	254	1		EPA 200.8	5/28/25	20
Total Iron	Less Than	58	ug/L	250	1	U	EPA 200.8	5/28/25	20
Total Dissolved Solids	146	8.7	mg/L	20	1		Std Mtd 2540 C	5/23/25	20
Total Chloride	0.85	0.59	mg/L	2	1	J	EPA 300.0	5/28/25	20
Total Fluoride	Less Than	0.095	mg/L	0.32	1	U	EPA 300.0	5/28/25	20
Total Sulfate	2.7	0.44	mg/L	2	1		EPA 300.0	5/28/25	20

Sample Comments:

Sample Description:		MW-79		PIPP Landfill 3 Annual Sample					
Sample ID:	AE79288	Sample Collection Date/Time:	05/21/2025	10:42					
Sample Received:	06/09/2025	Sample Collector:	LAUREN ANDERSON						
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	22.25	0.05	feet		1		H2OD	5/21/25	LA
Field Temperature	7.64	0.1	Degrees t		1		TEMP	5/21/25	LA
Field Conductivity	133.53	0	umhos		1		FCOND25	5/21/25	LA
Field pH	6.42	0.1	Units	0.1	1		FIELDPH	5/21/25	LA
Total Boron	22.3	3	ug/L	10	1		EPA 200.8	5/28/25	20
Total Calcium	17400	76.2	ug/L	254	1		EPA 200.8	5/28/25	20
Total Iron	Less Than	58	ug/L	250	1	U	EPA 200.8	5/28/25	20
Total Dissolved Solids	56	8.7	mg/L	20	1		Std Mtd 2540 C	5/23/25	20
Total Chloride	0.66	0.59	mg/L	2	1	J	EPA 300.0	5/28/25	20
Total Fluoride	Less Than	0.095	mg/L	0.32	1	U	EPA 300.0	5/28/25	20
Total Sulfate	4.2	0.44	mg/L	2	1		EPA 300.0	5/28/25	20

Report Date: Thursday, June 26, 2025

The following are the analytical results for samples received by Laboratory Services:

Sample Comments:

Sample Description: MW-80PR PIPP Landfill 3 Annual Sample
Sample ID: AE79289 Sample Collection Date/Time: 05/21/2025 10:12
Sample Received: 06/09/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	15.05	0.05	feet		1		H2OD	5/21/25	LA
Field Temperature	8.50	0.1	Degrees t		1		TEMP	5/21/25	LA
Field Conductivity	286.78	0	umhos		1		FCOND25	5/21/25	LA
Field pH	7.96	0.1	Units	0.1	1		FIELDPH	5/21/25	LA
Total Boron	11.3	3	ug/L	10	1		EPA 200.8	5/28/25	20
Total Calcium	46600	76.2	ug/L	254	1		EPA 200.8	5/28/25	20
Total Iron	Less Than	58	ug/L	250	1	U	EPA 200.8	5/28/25	20
Total Dissolved Solids	144	8.7	mg/L	20	1		Std Mtd 2540 C	5/23/25	20
Total Chloride	2.7	0.59	mg/L	2	1		EPA 300.0	5/28/25	20
Total Fluoride	Less Than	0.095	mg/L	0.32	1	U	EPA 300.0	5/28/25	20
Total Sulfate	4.2	0.44	mg/L	2	1		EPA 300.0	5/28/25	20

Sample Comments:

Sample Description: MW-85 PIPP Landfill 3 Annual Sample
Sample ID: AE79290 Sample Collection Date/Time: 05/21/2025 11:44
Sample Received: 06/09/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	38.53	0.05	feet		1		H2OD	5/21/25	LA
Field Temperature	7.56	0.1	Degrees t		1		TEMP	5/21/25	LA
Field Conductivity	54.98	0	umhos		1		FCOND25	5/21/25	LA
Field pH	6.78	0.1	Units	0.1	1		FIELDPH	5/21/25	LA
Total Boron	13.2	3	ug/L	10	1		EPA 200.8	5/28/25	20
Total Calcium	8340	76.2	ug/L	254	1		EPA 200.8	5/28/25	20
Total Iron	Less Than	58	ug/L	250	1	U	EPA 200.8	5/28/25	20
Total Dissolved Solids	30	8.7	mg/L	20	1		Std Mtd 2540 C	5/23/25	20
Total Chloride	0.95	0.59	mg/L	2	1	J	EPA 300.0	5/28/25	20
Total Fluoride	Less Than	0.095	mg/L	0.32	1	U	EPA 300.0	5/28/25	20
Total Sulfate	2.3	0.44	mg/L	2	1		EPA 300.0	5/28/25	20

Report Date: Thursday, June 26, 2025

The following are the analytical results for samples received by Laboratory Services:

Sample Comments:

Sample Description: MW-86 PIPP Landfill 3 Annual Sample
Sample ID: AE79291 Sample Collection Date/Time: 05/21/2025 12:34
Sample Received: 06/09/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	6.90	0.05	feet		1		H2OD	5/21/25	LA
Field Temperature	6.95	0.1	Degrees t		1		TEMP	5/21/25	LA
Field Conductivity	46.63	0	umhos		1		FCOND25	5/21/25	LA
Field pH	5.78	0.1	Units	0.1	1		FIELDPH	5/21/25	LA
Total Boron	10.8	3	ug/L	10	1		EPA 200.8	5/28/25	20
Total Calcium	3310	76.2	ug/L	254	1		EPA 200.8	5/28/25	20
Total Iron	5990	58	ug/L	250	1		EPA 200.8	5/28/25	20
Total Dissolved Solids	40	8.7	mg/L	20	1		Std Mtd 2540 C	5/23/25	20
Total Chloride	1.3	0.59	mg/L	2	1	J	EPA 300.0	6/6/25	20
Total Fluoride	Less Than	0.095	mg/L	0.32	1	U	EPA 300.0	6/6/25	20
Total Sulfate	0.98	0.44	mg/L	2	1	J	EPA 300.0	6/6/25	20

Sample Comments:

Sample Description: MW-87 PIPP Landfill 3 Annual Sample
Sample ID: AE79292 Sample Collection Date/Time: 05/21/2025 13:14
Sample Received: 06/09/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	30.94	0.05	feet		1		H2OD	5/21/25	LA
Field Temperature	7.05	0.1	Degrees t		1		TEMP	5/21/25	LA
Field Conductivity	139.49	0	umhos		1		FCOND25	5/21/25	LA
Field pH	7.06	0.1	Units	0.1	1		FIELDPH	5/21/25	LA
Total Boron	88.7	3	ug/L	10	1		EPA 200.8	6/3/25	20
Total Calcium	11900	76.2	ug/L	254	1		EPA 200.8	6/3/25	20
Total Iron	97	58	ug/L	250	1	J	EPA 200.8	6/3/25	20
Total Dissolved Solids	58	8.7	mg/L	20	1		Std Mtd 2540 C	5/23/25	20
Total Chloride	1.1	0.59	mg/L	2	1	J	EPA 300.0	5/28/25	20
Total Fluoride	Less Than	0.095	mg/L	0.32	1	U	EPA 300.0	5/28/25	20
Total Sulfate	7.6	0.44	mg/L	2	1		EPA 300.0	5/28/25	20

Report Date: Thursday, June 26, 2025

The following are the analytical results for samples received by Laboratory Services:

Sample Comments:

Sample Description: MW-95 PIPP Landfill 3 Annual Sample
Sample ID: AE79293 Sample Collection Date/Time: 05/21/2025 11:21
Sample Received: 06/09/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	30.92	0.05	feet		1		H2OD	5/21/25	LA
Field Temperature	8.73	0.1	Degrees t		1		TEMP	5/21/25	LA
Field Conductivity	102.69	0	umhos		1		FCOND25	5/21/25	LA
Field pH	6.80	0.1	Units	0.1	1		FIELDPH	5/21/25	LA
Total Boron	20.9	3	ug/L	10	1		EPA 200.8	6/3/25	20
Total Calcium	15100	76.2	ug/L	254	1		EPA 200.8	6/3/25	20
Total Iron	184	58	ug/L	250	1	J	EPA 200.8	6/3/25	20
Total Dissolved Solids	44	8.7	mg/L	20	1		Std Mtd 2540 C	5/23/25	20
Total Chloride	0.67	0.59	mg/L	2	1	J	EPA 300.0	5/28/25	20
Total Fluoride	Less Than	0.095	mg/L	0.32	1	U	EPA 300.0	5/28/25	20
Total Sulfate	2.3	0.44	mg/L	2	1		EPA 300.0	5/28/25	20

Sample Comments:

Sample Description: QC03 PIPP Landfill 3 Annual Sample
Sample ID: AE79294 Sample Collection Date/Time: 05/21/2025 11:26
Sample Received: 06/09/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	21.2	3	ug/L	10	1		EPA 200.8	6/3/25	20
Total Calcium	16000	76.2	ug/L	254	1		EPA 200.8	6/3/25	20
Total Iron	273	58	ug/L	250	1		EPA 200.8	6/3/25	20
Total Dissolved Solids	34	8.7	mg/L	20	1		Std Mtd 2540 C	5/23/25	20
Total Chloride	0.69	0.59	mg/L	2	1	J	EPA 300.0	5/28/25	20
Total Fluoride	Less Than	0.095	mg/L	0.32	1	U	EPA 300.0	5/28/25	20
Total Sulfate	2.3	0.44	mg/L	2	1		EPA 300.0	5/28/25	20

Sample Comments:

Report Date: Thursday, June 26, 2025

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **EB3** **PIPP Landfill 3 Annual Sample**
Sample ID: AE79295 Sample Collection Date/Time: 05/21/2025 14:00
Sample Received: 06/09/2025 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	Less Than	3	ug/L	10	1	U	EPA 200.8	6/3/25	20
Total Calcium	Less Than	76.2	ug/L	254	1	U	EPA 200.8	6/3/25	20
Total Iron	Less Than	58	ug/L	250	1	U	EPA 200.8	6/3/25	20
Total Dissolved Solids	Less Than	8.7	mg/L	20	1	U	Std Mtd 2540 C	5/23/25	20
Total Chloride	Less Than	0.59	mg/L	2	1	U	EPA 300.0	5/28/25	20
Total Fluoride	Less Than	0.095	mg/L	0.32	1	U	EPA 300.0	5/28/25	20
Total Sulfate	Less Than	0.44	mg/L	2	1	U	EPA 300.0	5/28/25	20

Sample Comments:

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact Lab Services: 414-221-4595

To: Eric Kovatch
 PSB Annex A231

From: WEC Business Services
 Laboratory Services PSBA-A070
 WDNR Cert # 241329000



Report Date: Monday, January 5, 2026

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **MW-70 PIPP Landfill 3 Semi Annal Sample**
 Sample ID: AE83645 Sample Collection Date/Time: 11/20/2025 13:35
 Sample Received: 12/10/2025 Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	25.9	0.05	feet		1		H2OD	11/20/25	RAMBOLL
Field Temperature	9.5	0.1	Degrees t		1		TEMP	11/20/25	RAMBOLL
Field Conductivity	125.1	0	umhos		1		FCOND25	11/20/25	RAMBOLL
Field pH	7.1	0.1	Units	0.1	1		FIELDPH	11/20/25	RAMBOLL
Total Dissolved Solids	60	8.7	mg/L	20	1		Std Mtd 2540 C	11/26/25	020
Total Chloride in Groundwater	0.68	0.59	mg/L	2	1	J,M0	EPA 300.0	12/10/25	020
Total Fluoride in Groundwater	Less Than	0.095	mg/L	0.32	1	M0	EPA 300.0	12/10/25	020
Total Sulfate	3.8	0.44	mg/L	2	1	M0	EPA 300.0	12/10/25	020
Dissolved Chloride	0.67	0.59	mg/L	2	1	J	EPA 300.0	12/12/25	020
Dissolved Sulfate	3.8	0.44	mg/L	2	1	M0	EPA 300.0	12/12/25	020
Total Boron	Less Than	17.3	ug/L	40	1		EPA 200.7	12/2/25	020
Total Calcium	21100	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Iron	Less Than	56.7	ug/L	100	1		EPA 200.7	12/2/25	020
Dissolved Calcium	21600	114	ug/L	500	1		EPA 200.7	12/19/25	020
Dissolved Potassium	1150	325	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Magnesium	2840	182	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Sodium	1450	350	ug/L	500	1		EPA 200.7	12/19/25	020

Sample Comments:

Sample Description: **MW-79 PIPP Landfill 3 Semi Annal Sample**
 Sample ID: AE83646 Sample Collection Date/Time: 11/20/2025 10:00
 Sample Received: 12/10/2025 Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	23.2	0.05	feet		1		H2OD	11/20/25	RAMBOLL
Field Temperature	10.7	0.1	Degrees t		1		TEMP	11/20/25	RAMBOLL
Field Conductivity	149.6	0	umhos		1		FCOND25	11/20/25	RAMBOLL
Field pH	6.3	0.1	Units	0.1	1		FIELDPH	11/20/25	RAMBOLL
Total Dissolved Solids	78	8.7	mg/L	20	1		Std Mtd 2540 C	11/26/25	020
Total Chloride in Groundwater	Less Than	0.59	mg/L	2	1		EPA 300.0	12/11/25	020
Total Fluoride in Groundwater	Less Than	0.095	mg/L	0.32	1		EPA 300.0	12/11/25	020
Total Sulfate	4.3	0.44	mg/L	2	1		EPA 300.0	12/11/25	020
Dissolved Chloride	Less Than	0.59	mg/L	2	1		EPA 300.0	12/12/25	020

Report Date: Monday, January 5, 2026

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **MW-79 PIPP Landfill 3 Semi Annal Sample**
Sample ID: AE83646 Sample Collection Date/Time: 11/20/2025 10:00
Sample Received: 12/10/2025 Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Dissolved Sulfate	4	0.44	mg/L	2	1		EPA 300.0	12/12/25	020
Total Boron	29.3	17.3	ug/L	40	1	J	EPA 200.7	12/2/25	020
Total Calcium	20200	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Iron	Less Than	56.7	ug/L	100	1		EPA 200.7	12/2/25	020
Dissolved Calcium	20300	114	ug/L	500	1		EPA 200.7	12/19/25	020
Dissolved Potassium	2900	325	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Magnesium	5410	182	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Sodium	2380	350	ug/L	500	1		EPA 200.7	12/19/25	020

Sample Comments:

Sample Description: **MW-80PR PIPP Landfill 3 Semi Annal Sample**
Sample ID: AE83647 Sample Collection Date/Time: 11/20/2025 09:14
Sample Received: 12/10/2025 Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	17.1	0.05	feet		1		H2OD	11/20/25	RAMBOLL
Field Temperature	10.2	0.1	Degrees t		1		TEMP	11/20/25	RAMBOLL
Field Conductivity	264.1	0	umhos		1		FCOND25	11/20/25	RAMBOLL
Field pH	7.7	0.1	Units	0.1	1		FIELDPH	11/20/25	RAMBOLL
Total Dissolved Solids	132	8.7	mg/L	20	1		Std Mtd 2540 C	11/26/25	020
Total Chloride in Groundwater	3	0.59	mg/L	2	1		EPA 300.0	12/11/25	020
Total Fluoride in Groundwater	Less Than	0.095	mg/L	0.32	1		EPA 300.0	12/11/25	020
Total Sulfate	4.2	0.44	mg/L	2	1		EPA 300.0	12/11/25	020
Dissolved Chloride	2.9	0.59	mg/L	2	1		EPA 300.0	12/12/25	020
Dissolved Sulfate	4	0.44	mg/L	2	1		EPA 300.0	12/12/25	020
Total Boron	23.7	17.3	ug/L	40	1	J	EPA 200.7	12/2/25	020
Total Calcium	45200	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Iron	Less Than	56.7	ug/L	100	1		EPA 200.7	12/2/25	020
Dissolved Calcium	46400	114	ug/L	500	1		EPA 200.7	12/19/25	020
Dissolved Potassium	1480	325	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Magnesium	7600	182	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Sodium	1920	350	ug/L	500	1		EPA 200.7	12/19/25	020

Sample Comments:

Report Date: Monday, January 5, 2026

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **MW-85 PIPP Landfill 3 Semi Annal Sample**
 Sample ID: AE83648 Sample Collection Date/Time: 11/20/2025 14:46
 Sample Received: 12/10/2025 Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	41.8	0.05	feet		1		H2OD	11/20/25	RAMBOLL
Field Temperature	8.3	0.1	Degrees C		1		TEMP	11/20/25	RAMBOLL
Field Conductivity	30.6	0	umhos		1		FCOND25	11/20/25	RAMBOLL
Field pH	6.5	0.1	Units	0.1	1		FIELDPH	11/20/25	RAMBOLL
Total Dissolved Solids	Less Than	8.7	mg/L	20	1		Std Mtd 2540 C	11/26/25	020
Total Chloride in Groundwater	Less Than	0.59	mg/L	2	1		EPA 300.0	12/11/25	020
Total Fluoride in Groundwater	Less Than	0.095	mg/L	0.32	1		EPA 300.0	12/11/25	020
Total Sulfate	2.4	0.44	mg/L	2	1		EPA 300.0	12/11/25	020
Dissolved Chloride	Less Than	0.59	mg/L	2	1		EPA 300.0	12/12/25	020
Dissolved Sulfate	2.3	0.44	mg/L	2	1		EPA 300.0	12/12/25	020
Total Boron	18	17.3	ug/L	40	1	J	EPA 200.7	12/2/25	020
Total Calcium	4080	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Iron	Less Than	56.7	ug/L	100	1		EPA 200.7	12/2/25	020
Dissolved Calcium	4070	114	ug/L	500	1		EPA 200.7	12/19/25	020
Dissolved Potassium	918	325	ug/L	1000	1	J	EPA 200.7	12/19/25	020
Dissolved Magnesium	740	182	ug/L	1000	1	J	EPA 200.7	12/19/25	020
Dissolved Sodium	836	350	ug/L	500	1		EPA 200.7	12/19/25	020

Sample Comments:

Sample Description: **MW-86 PIPP Landfill 3 Semi Annal Sample**
 Sample ID: AE83649 Sample Collection Date/Time: 11/20/2025 11:58
 Sample Received: 12/10/2025 Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	5.0	0.05	feet		1		H2OD	11/20/25	RAMBOLL
Field Temperature	10.4	0.1	Degrees C		1		TEMP	11/20/25	RAMBOLL
Field Conductivity	126.8	0	umhos		1		FCOND25	11/20/25	RAMBOLL
Field pH	6.0	0.1	Units	0.1	1		FIELDPH	11/20/25	RAMBOLL
Total Dissolved Solids	74	8.7	mg/L	20	1		Std Mtd 2540 C	11/26/25	020
Total Chloride in Groundwater	1.4	0.59	mg/L	2	1	J	EPA 300.0	12/11/25	020
Total Fluoride in Groundwater	Less Than	0.095	mg/L	0.32	1		EPA 300.0	12/11/25	020
Total Sulfate	0.66	0.44	mg/L	2	1	J	EPA 300.0	12/11/25	020
Dissolved Chloride	1.3	0.59	mg/L	2	1	J	EPA 300.0	12/12/25	020
Dissolved Sulfate	0.63	0.44	mg/L	2	1	J	EPA 300.0	12/12/25	020
Total Boron	Less Than	17.3	ug/L	40	1		EPA 200.7	12/2/25	020
Total Calcium	6880	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Iron	26100	56.7	ug/L	100	1		EPA 200.7	12/2/25	020
Dissolved Calcium	6940	114	ug/L	500	1		EPA 200.7	12/19/25	020
Dissolved Potassium	2310	325	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Magnesium	3060	182	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Sodium	1310	350	ug/L	500	1		EPA 200.7	12/19/25	020

Report Date: Monday, January 5, 2026

The following are the analytical results for samples received by Laboratory Services:

Sample Comments:

Sample Description:

MW-87 PIPP Landfill 3 Semi Annal Sample

Sample ID: AE83650

Sample Collection Date/Time: 11/20/2025 12:56

Sample Received: 12/10/2025

Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	31.8	0.05	feet		1		H2OD	11/20/25	RAMBOLL
Field Temperature	8.3	0.1	Degrees t		1		TEMP	11/20/25	RAMBOLL
Field Conductivity	110.9	0	umhos		1		FCOND25	11/20/25	RAMBOLL
Field pH	6.9	0.1	Units	0.1	1		FIELDPH	11/20/25	RAMBOLL
Total Dissolved Solids	76	8.7	mg/L	20	1		Std Mtd 2540 C	11/26/25	020
Total Chloride in Groundwater	0.77	0.59	mg/L	2	1	J	EPA 300.0	12/11/25	020
Total Fluoride in Groundwater	Less Than	0.095	mg/L	0.32	1		EPA 300.0	12/11/25	020
Total Sulfate	4.3	0.44	mg/L	2	1		EPA 300.0	12/11/25	020
Dissolved Chloride	1.2	0.59	mg/L	2	1	J,M0	EPA 300.0	12/12/25	020
Dissolved Sulfate	5	0.44	mg/L	2	1		EPA 300.0	12/12/25	020
Total Boron	48.2	17.3	ug/L	40	1		EPA 200.7	12/2/25	020
Total Calcium	12100	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Iron	105	56.7	ug/L	100	1		EPA 200.7	12/2/25	020
Dissolved Calcium	12300	114	ug/L	500	1		EPA 200.7	12/19/25	020
Dissolved Potassium	2580	325	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Magnesium	3670	182	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Sodium	6770	350	ug/L	500	1		EPA 200.7	12/19/25	020

Sample Comments:

Sample Description:

MW-95 PIPP Landfill 3 Semi Annal Sample

Sample ID: AE83651

Sample Collection Date/Time: 11/20/2025 10:58

Sample Received: 12/10/2025

Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	32.4	0.05	feet		1		H2OD	11/20/25	RAMBOLL
Field Temperature	9.6	0.1	Degrees t		1		TEMP	11/20/25	RAMBOLL
Field Conductivity	148.9	0	umhos		1		FCOND25	11/20/25	RAMBOLL
Field pH	7.5	0.1	Units	0.1	1		FIELDPH	11/20/25	RAMBOLL
Total Dissolved Solids	90	8.7	mg/L	20	1		Std Mtd 2540 C	11/26/25	020
Total Chloride in Groundwater	Less Than	0.59	mg/L	2	1		EPA 300.0	12/11/25	020
Total Fluoride in Groundwater	Less Than	0.095	mg/L	0.32	1		EPA 300.0	12/11/25	020
Total Sulfate	2.3	0.44	mg/L	2	1		EPA 300.0	12/11/25	020
Dissolved Chloride	Less Than	0.59	mg/L	2	1		EPA 300.0	12/12/25	020
Dissolved Sulfate	Less Than	0.44	mg/L	2	1		EPA 300.0	12/12/25	020

Report Date: Monday, January 5, 2026

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **MW-95 PIPP Landfill 3 Semi Annal Sample**
Sample ID: AE83651 Sample Collection Date/Time: 11/20/2025 10:58
Sample Received: 12/10/2025 Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	26.5	17.3	ug/L	40	1	J	EPA 200.7	12/2/25	020
Total Calcium	24100	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Iron	Less Than	56.7	ug/L	100	1		EPA 200.7	12/2/25	020
Dissolved Calcium	23100	114	ug/L	500	1		EPA 200.7	12/19/25	020
Dissolved Potassium	1270	325	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Magnesium	5660	182	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Sodium	1850	350	ug/L	500	1		EPA 200.7	12/19/25	020

Sample Comments:

Sample Description: **QC03 PIPP Landfill 3 Semi Annal Sample**
Sample ID: AE83652 Sample Collection Date/Time: 11/20/2025 11:03
Sample Received: 12/10/2025 Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Dissolved Solids	104	8.7	mg/L	20	1		Std Mtd 2540 C	11/26/25	020
Total Chloride in Groundwater	Less Than	0.59	mg/L	2	1		EPA 300.0	12/11/25	020
Total Fluoride in Groundwater	Less Than	0.095	mg/L	0.32	1		EPA 300.0	12/11/25	020
Total Sulfate	2.3	0.44	mg/L	2	1		EPA 300.0	12/11/25	020
Dissolved Chloride	Less Than	0.59	mg/L	2	1		EPA 300.0	12/12/25	020
Dissolved Sulfate	2.3	0.44	mg/L	2	1		EPA 300.0	12/12/25	020
Total Boron	28.7	17.3	ug/L	40	1	J	EPA 200.7	12/2/25	020
Total Calcium	23200	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Iron	Less Than	56.7	ug/L	100	1		EPA 200.7	12/2/25	020
Dissolved Calcium	21900	114	ug/L	500	1		EPA 200.7	12/19/25	020
Dissolved Potassium	1270	325	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Magnesium	5280	182	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Sodium	1870	350	ug/L	500	1		EPA 200.7	12/19/25	020

Sample Comments:

Sample Description: **EB3 PIPP Landfill 3 Semi Annal Sample**
Sample ID: AE83653 Sample Collection Date/Time: 11/20/2025 15:35
Sample Received: 12/10/2025 Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Dissolved Solids	Less Than	8.7	mg/L	20	1		Std Mtd 2540 C	11/26/25	020

Report Date: Monday, January 5, 2026

The following are the analytical results for samples received by Laboratory Services:

Sample Description: **EB3 PIPP Landfill 3 Semi Annal Sample**
Sample ID: AE83653 Sample Collection Date/Time: 11/20/2025 15:35
Sample Received: 12/10/2025 Sample Collector: M FISHER - RAMBOLL

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Chloride in Groundwater	Less Than	0.59	mg/L	2	1		EPA 300.0	12/11/25	020
Total Fluoride in Groundwater	Less Than	0.095	mg/L	0.32	1		EPA 300.0	12/11/25	020
Total Sulfate	Less Than	0.44	mg/L	2	1		EPA 300.0	12/11/25	020
Dissolved Chloride	Less Than	0.59	mg/L	2	1		EPA 300.0	12/12/25	020
Dissolved Sulfate	Less Than	0.44	mg/L	2	1		EPA 300.0	12/12/25	020
Total Boron	Less Than	17.3	ug/L	40	1		EPA 200.7	12/2/25	020
Total Calcium	Less Than	114	ug/L	500	1		EPA 200.7	12/2/25	020
Total Iron	Less Than	56.7	ug/L	100	1		EPA 200.7	12/2/25	020
Dissolved Calcium	Less Than	114	ug/L	500	1		EPA 200.7	12/19/25	020
Dissolved Potassium	Less Than	325	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	12/19/25	020
Dissolved Sodium	Less Than	350	ug/L	500	1		EPA 200.7	12/19/25	020

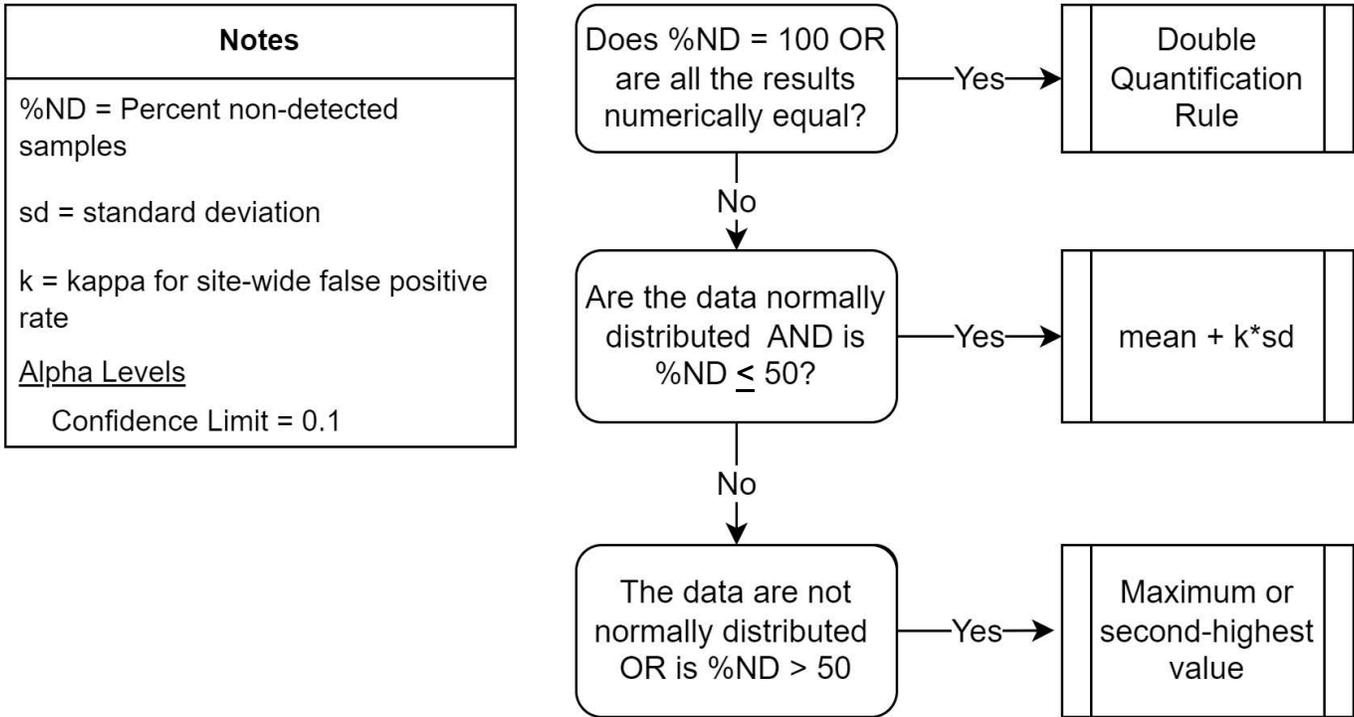
Sample Comments:

LOD and LOQ are adjusted for dilution factor.

'J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

If there are any questions concerning this report, please contact Lab Services: 414-221-4595

APPENDIX B
STATISTICAL METHODOLOGY FOR DETERMINATION OF BACKGROUND
VALUES



When data are not normally distributed or %ND > 50, the maximum value is used if the background sample size is < 60. Where the background sample size is > 60, the achievable per-constituent false positive rates for the maximum and second-highest background values will be compared, and the background value with the achievable per-constituent false positive rate that is closest to, but does not exceed, the target per-constituent false positive rate of 0.015% is used.