

Prepared for
We Energies

Date
January 31, 2026

Project No.
1940114239

2025 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLEASANT PRAIRIE POWER PLANT ASH LANDFILL

**2025 CCR ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
PLEASANT PRAIRIE POWER PLANT ASH LANDFILL**

Project name **Pleasant Prairie Power Plant Ash Landfill**
Project no. **1940114239**
Recipient **We Energies**
Document type **Annual CCR Groundwater Monitoring and Corrective Action Report**
Revision **FINAL**
Date **January 31, 2026**
Prepared by **Kyle J. Schaefer**
Checked by **Eric J. Tlachac, PE**
Approved by **Nathaniel R. Keller, PG**

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA

T 414-837-3607
F 414-837-3608
<https://ramboll.com>



Kyle J. Schaefer
Senior Lead Consultant, Site Solutions



Eric J. Tlachac, PE
Senior Managing Consultant



Nathaniel R. Keller, PG
Senior Managing Consultant

CONTENTS

EXECUTIVE SUMMARY	3
1. Introduction	4
2. Monitoring and Corrective Action Program Status	6
3. Key Actions Completed in 2025	7
4. Problems Encountered and Actions to Resolve the Problems	8
5. Key Activities Planned for 2026	9
6. References	10

TABLES (IN TEXT)

Table A 2025 Detection Monitoring Program Summary

TABLES (ATTACHED)

Table 1 Groundwater Elevations
Table 2 Analytical Results – CCR Parameters

FIGURES (ATTACHED)

Figure 1 Monitoring Well Location Map
Figure 2 Potentiometric Surface Map, April 29, 2025
Figure 3 Potentiometric Surface Map, October 21 and 22, 2025

APPENDICES

Appendix A Laboratory Reports

ACRONYMS AND ABBREVIATIONS

§	Section
40 C.F.R.	Title 40 of the Code of Federal Regulations
ACL	Alternative Concentration Limit
CCR	coal combustion residuals
ES	Enforcement Standard
ESAP	Environmental Sampling and Analysis Plan
mg/L	milligrams per liter
NA	not applicable
P4	Pleasant Prairie Power Plant
PAL	Preventive Action Limit
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
TBD	to be determined
TDS	total dissolved solids
WDNR	Wisconsin Department of Natural Resources
Wis. Adm. Code	Wisconsin Administrative Code

EXECUTIVE SUMMARY

On August 1, 2022, the Wisconsin Department of Natural Resources (WDNR) updated Wisconsin Administrative Code (Wis. Adm. Code) Chapter (Ch.) NR 500 to include additional requirements for new and existing Coal Combustion Residual (CCR) Landfills in the State of Wisconsin. This report has been prepared to provide the information required by Ch. NR 507.15(3)(m) for the Pleasant Prairie Power Plant (P4) Ash Landfill (License #2786) located near Pleasant Prairie, Wisconsin.

In accordance with the August 1, 2022 revisions to Ch. NR 500 Wis. Adm. Code, a Plan of Operation Modification (Plan Mod), including an Environmental Sampling and Analysis Plan (ESAP) Addendum, was prepared as required in Ch. NR 514.045 for the above referenced CCR landfill and submitted to WDNR by February 1, 2023 for review and approval.

- WDNR determined in a letter dated April 28, 2023 that the Plan Mod was incomplete and requested additional information. A revised Plan Mod was prepared and submitted on December 15, 2023.
- WDNR determined in a letter dated March 12, 2024 that the revised Plan Mod remained incomplete and requested additional information. Following this request a second revision to the Plan Mod was prepared and submitted on September 6, 2024.
- On November 14, 2024, a notification letter from WDNR provided concurrence on completeness of the Plan Mod. A virtual meeting was held on December 10, 2024, allowing public comment on the Plan Mod, and the comment period remained open until January 10, 2025.
- On November 17, 2025, WDNR provided a DRAFT Conditional Plan Mod Approval. A 30-day public comment period was held between November 17, 2025, and December 17, 2025, to comply with s. NR 514.045(4), Wis. Adm. Code.
- On December 23, 2025, WDNR provided a final Conditional Plan Mod Approval.

Beginning in 2016, sampling at the P4 Ash Landfill was completed in accordance with the Detection Monitoring Program requirements specified in Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.94. Following the updates to Ch. NR 500 Wis. Adm. Code in 2022, groundwater sampling has been completed in accordance with Ch. NR 507.15(3)(L) (Detection Monitoring) since 2023.

Comparisons of the concentrations of detected parameters to Ch. NR 140 groundwater quality standards (Preventive Action Limits [PALs] and Enforcement Standards [ESs]) were not completed in 2025 because these standards for some Detection Monitoring Parameters are calculated based upon site-specific baseline monitoring data (e.g., Field Specific Conductance, Total Alkalinity, Total Hardness, Total Calcium, and Total Dissolved Solids). Values for these standards were proposed in the Plan Mod and only recently approved. Alternative Concentration Limits (ACLs) for some Detection Monitoring parameters (Total Boron, Total Fluoride, and Total Sulfate) were also proposed in the Plan Mod recently approved.

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

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 Ch. NR 507.15(3)(m) at the P4 Ash Landfill (License #2786) located in Pleasant Prairie, Wisconsin.

In accordance with Ch. NR 507.15(3)(m), the owner or operator of a CCR landfill 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 landfill (**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 landfill and all upgradient and downgradient monitoring wells, including the well identification numbers, that are part of the groundwater monitoring for the CCR landfill (**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 Ch. NR 507.15(3)(L) (**Tables 1 and 2**), a summary including the number of groundwater samples that were collected for analysis for each upgradient and downgradient well, the dates the samples were collected, and whether the sample was required by Detection Monitoring or Assessment Monitoring (**Section 3 and Table A**).
4. A narrative discussion of any transition between monitoring including the date and circumstances for transitioning from Detection Monitoring to Assessment Monitoring (**Section 2**) in addition to identifying any constituents detected above Ch. NR 140 standards (**Table A**).
5. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action for the CCR landfill (**Executive Summary**). At a minimum, the summary shall include all of the following:
 - i. At the start of the current annual reporting period, whether the CCR landfill was operating under Detection Monitoring or Assessment Monitoring.
 - ii. At the end of the current annual reporting period, whether the CCR landfill was operating under Detection Monitoring or Assessment Monitoring.
 - iii. If it was determined by the owner or operator that there was a groundwater quality exceedance under Ch. NR 140 for one or more constituents listed under Ch. NR 507 Appendix I for CCR wells, a listing of those constituents, the names of the monitoring wells associated with the exceedances, and the date when the Assessment Monitoring was initiated for the CCR landfill.

- iv. If corrective action measures were required, the date when the assessment of corrective measures was initiated for the CCR landfill, the date when the public informational hearing under Ch. NR 508.06(3)(e) was held for the discussion of the results of the remedial action options report, and the date when the assessment of corrective measures was completed.
- v. If a remedy was required under Ch. NR 508 during the annual reporting period, the date of remedy selection, and whether remedial activities were initiated or are ongoing during the annual reporting period.

This report provides the required information for the P4 Ash Landfill for calendar year 2025.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

As required in Ch. NR 514.045, a Plan Mod, including an ESAP Addendum, was prepared for the P4 Ash Landfill to fulfill additional requirements related to the August 1, 2022 revisions to Ch. NR 500 and submitted to WDNR by February 1, 2023 for review and approval.

- WDNR determined in letters dated April 28, 2023 and March 12, 2024 that the Plan Mod and a subsequent revision were incomplete and requested additional information.
- A second revision to the Plan Mod was prepared and submitted on September 6, 2024.
- On November 14, 2024, a notification letter from WDNR provided concurrence on completeness of the Plan Mod. A virtual meeting was held on December 10, 2024, allowing public comment on the Plan Mod and the public comment period remained open until January 10, 2025.
- On November 17, 2025, WDNR provided a DRAFT Conditional Plan Mod Approval. A 30-day public comment period was held between November 17, 2025, and December 17, 2025, to comply with s. NR 514.045(4), Wis. Adm. Code.
- On December 23, 2025, WDNR provided a final Conditional Plan Mod Approval.

Comparisons of the concentrations of detected parameters to Ch. NR 140 groundwater quality standards (Preventive Action Limits [PALs] and Enforcement Standards [ESs]) were not completed in 2025 because these standards for some Detection Monitoring Parameters are calculated based upon site-specific baseline monitoring data (e.g., Field Specific Conductance, Total Alkalinity, Total Hardness, Total Calcium, and Total Dissolved Solids). Values for these standards were proposed in the Plan Mod and only recently approved. Alternative Concentration Limits (ACLs) for some Detection Monitoring parameters (Total Boron, Total Fluoride, and Total Sulfate) were also proposed in the Plan Mod recently approved. Accordingly, no changes have occurred to the monitoring program status in calendar year 2025.

Beginning in 2016 sampling at the P4 Ash Landfill was completed in accordance with the Detection Monitoring Program requirements specified in Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.94. Following updates to the Wis. Adm. Code in 2022, groundwater sampling has been completed in accordance with Ch. NR 507.15(3)(L) (Detection Monitoring).

3. KEY ACTIONS COMPLETED IN 2025

The Detection Monitoring Program is summarized in **Table A** below. 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 (upgradient) and downgradient well during each monitoring event. All samples were collected and analyzed in accordance with the *Sampling and Analysis Plan (SAP), Revision 1, Pleasant Prairie Power Plant Ash Landfill* (Ramboll, 2023) submitted as Appendix B of the ESAP Addendum. Potentiometric surface maps for both monitoring events in 2025 are included in **Figure 2 and Figure 3**. 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 Ch. NR 507.15(3)(L) in 2025 are presented in **Table 2**. Laboratory reports for all 2025 monitoring events are included in **Appendix A**. Results for analysis of additional samples required by Ch. NR 507 are included in some reports because they were collected during the same sampling events, but are not summarized in this report.

In 2025, groundwater sampling was completed as summarized below (**Table A**).

Table A. 2025 Detection Monitoring Program Summary

Sampling Date	Purpose	Analytical Data Receipt Date	Parameters Analyzed
April 29, 2025	Detection Monitoring	June 2, 2025	Ch. NR 507 App A Table 1A
October 21 and 22, 2025	Detection Monitoring	December 2, 2025	Ch. NR 507 App A Table 1A

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No significant problems were encountered with the Groundwater Monitoring Program during 2025. All 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:

- Detection Monitoring in accordance with Ch. NR 507.15(3)(L) with semi-annual sampling scheduled for the second and fourth quarters of 2026.
- Complete evaluation of groundwater analytical data against Ch. NR 140 standards including PALs, ESs, and/or ACLs, approved by WDNR.
- A notification will be provided to WDNR within 90 days of the end of the sampling period when results indicate concentrations have attained or exceeded groundwater standards in accordance with Ch. NR 507.30. The notification shall specify the parameters that have attained or exceeded standards, the wells at which the standards (PAL, ES, or ACL) were attained or exceeded, and provide a preliminary analysis of the cause and significance of each concentration in accordance with Chs. NR 140.24(1)(a) or 140.26(1)(a). The notification shall also include the intent to either begin Assessment Monitoring or determine whether a false exceedance occurred.
- As described in Chs. NR 508.06(1)(c) and NR 507.28(3), if a groundwater standard exceedance is detected in a CCR well, a demonstration may be completed and submitted within 60 days of detecting the exceedance to indicate if a source other than P4 is the cause or the exceedance is due to an error.
 - If WDNR concurs with the false exceedance demonstration within 30 days of receipt, Detection Monitoring will continue.
 - If WDNR does not concur within 30 days, an Assessment Monitoring Program in accordance with Ch. NR 508.06(2) will be initiated.

6. REFERENCES

Ramboll Americas Engineering Solutions, Inc., 2023, *Sampling and Analysis Plan Revision 1, Pleasant Prairie Power Plant Ash Landfill, Pleasant Prairie, Wisconsin*. December 14, 2023.

TABLES

**TABLE 1
GROUNDWATER ELEVATIONS**

2025 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PLEASANT PRAIRIE POWER PLANT ASH LANDFILL
PLEASANT PRAIRIE, WI

Well ID	Well Type	Latitude (Degrees, minutes, seconds)	Longitude (Degrees, minutes, seconds)	Date	Groundwater Elevation (ft NAVD88)
W20D	Background (Upgradient)	42°33'51.3592"	-87°54'15.0776"	4/29/2025	670.48
				10/21/2025	666.81
W77	Background (Upgradient)	42°33'45.2513"	-87°53'54.2383"	4/29/2025	669.70
				10/22/2025	666.75
W73	Compliance (Downgradient)	42°33'57.0560"	-87°53'57.3214"	4/29/2025	668.47
				10/22/2025	665.83
W74	Compliance (Downgradient)	42°33'56.9099"	-87°54'14.3343"	4/29/2025	667.00
				10/21/2025	663.20
W75	Compliance (Downgradient)	42°33'56.8116"	-87°54'08.8120"	4/29/2025	667.42
				10/21/2025	664.26
W76	Compliance (Downgradient)	42°33'56.4738"	-87°54'01.8036"	4/29/2025	668.04
				10/22/2025	665.15

Notes:

ft = foot/feet

NAVD88 = North American Vertical Datum of 1988

Pleasant Prairie Ash LF
Table 2. Analytical Results - CCR Parameters

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

Well Id	Date Sampled	Lab Id	Alkalinity, lab, mg/L	Boron, total, mg/L	Calcium, total, mg/L	Chloride, total, mg/L	Fluoride, total, mg/L	Hardness, tot, mg/L
W20D	4/29/2025	AE78432	100.0	0.500	27.6	10.0	0.95	145.00
	10/21/2025	AE82462	118.0	0.416	0.0	10.6	1.10	122.00
W73	4/29/2025	AE78433	100.0	0.500	22.5	11.0	0.94	117.00
	10/22/2025	AE82457	118.0	0.392	0.0	11.1	1.00	94.60
W74	4/29/2025	AE78439	100.0	0.450	21.8	13.0	0.94	124.00
	10/21/2025	AE82463	108.0	0.378	0.0	14.3	1.00	108.00
W75	4/29/2025	AE78434	120.0	0.440	19.8	8.5	0.95	105.00
	10/21/2025	AE82464	122.0	0.407	0.0	8.5	1.10	100.00
W76	4/29/2025	AE78435	110.0	0.490	20.5	10.0	0.91	106.00
	10/22/2025	AE82465	117.0	0.409	0.0	10.5	1.00	93.30
W77	4/29/2025	AE78436	140.0	0.470	27.3	7.9	1.00	131.00
	10/22/2025	AE82466	150.0	0.414	0.0	8.0	1.10	116.00

Pleasant Prairie Ash LF
Table 2. Analytical Results - CCR Parameters

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

Well Id	Date Sampled	Lab Id	pH (Field), SU	Sulfate, total, mg/L	TDS, mg/L
W20D	4/29/2025	AE78432	7.5	150	432
	10/21/2025	AE82462	7.6	214	428
W73	4/29/2025	AE78433	8.0	110	170
	10/22/2025	AE82457	8.3	128	444
W74	4/29/2025	AE78439	7.8	140	356
	10/21/2025	AE82463	8.1	197	368
W75	4/29/2025	AE78434	7.9	110	342
	10/21/2025	AE82464	7.6	157	318
W76	4/29/2025	AE78435	8.2	120	332
	10/22/2025	AE82465	7.9	165	334
W77	4/29/2025	AE78436	7.6	110	356
	10/22/2025	AE82466	7.9	158	356

FIGURES



- UNIT BOUNDARY
- + CCR DOWNGRADIENT MONITORING WELL LOCATION
- + CCR UPGRADIENT MONITORING WELL LOCATION

IMAGERY DATE = 6/23/2022
 0 150 300
 Feet

MONITORING WELL LOCATION MAP

FIGURE 1

2025 CCR ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT
 PLEASANT PRAIRIE POWER PLANT
 ASH LANDFILL
 PLEASANT PRAIRIE, WISCONSIN

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.





- ▭ UNIT BOUNDARY
- BEDROCK UNIT (UPPERMOST AQUIFER) CCR MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (0.5-FT INTERVAL, NAVD 88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- ➔ GROUNDWATER FLOW DIRECTION

V_{gw} = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY
 IMAGERY DATE = 6/23/2022



**POTENTIOMETRIC SURFACE MAP
 APRIL 29, 2025**

2025 CCR ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT
 PLEASANT PRAIRIE POWER PLANT
 ASH LANDFILL
 PLEASANT PRAIRIE, WISCONSIN

FIGURE 2

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



**GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS
 PLEASANT PRAIRIE POWER PLANT ASH LANDFILL
 PLEASANT PRAIRIE, WISCONSIN**

APRIL 2025		$V = K i / n_e$	V = Groundwater Velocity		
			K = Hydraulic Conductivity		
			i = Hydraulic Gradient (unitless value)		
			n_e = Effective Porosity		
UPPERMOST AQUIFER					
Contours	668 to 667.5	North/ Northwest Across the Landfill	Elevation	Distance	
K =	1.04E+03 ft/yr	Geometric mean for Landfill	Change	Change	
i =	0.007	between contours identified above	(ft)	(ft)	
n_e =	25 %		0.5	/ 75	0.007
V =	$\frac{1.04E+03 * 6.67E-03}{0.25}$				
V =	28 feet/year				

[O: KJS 7/10/2025, C:NRK 1/21/26]



Source Layer Credits: NAIP 2022

- ▭ UNIT BOUNDARY
- BEDROCK UNIT (UPPERMOST AQUIFER) CCR MONITORING WELL LOCATION
- GROUNDWATER ELEVATION CONTOUR (0.5-FT INTERVAL, NAVD 88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- ➔ GROUNDWATER FLOW DIRECTION

V_{gw} = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY
 IMAGERY DATE = 6/23/2022



POTENTIOMETRIC SURFACE MAP OCTOBER 21 AND 22, 2025

2025 CCR ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT
 PLEASANT PRAIRIE POWER PLANT
 ASH LANDFILL
 PLEASANT PRAIRIE, WISCONSIN

FIGURE 3

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



**GROUNDWATER AVERAGE LINEAR VELOCITY CALCULATIONS
 PLEASANT PRAIRIE POWER PLANT ASH LANDFILL
 PLEASANT PRAIRIE, WISCONSIN**

OCTOBER 2025		$V = K i / n_e$	V = Groundwater Velocity K = Hydraulic Conductivity i = Hydraulic Gradient (unitless value) n_e = Effective Porosity
UPPERMOST AQUIFER			
Contours	664.5 to 664.0	North/ Northwest Across the Landfill	Elevation Change (ft) / Distance Change (ft)
K =	1.04E+03 ft/yr	Geometric mean for Landfill	0.5 / 65
i =	0.008	between contours identified above	0.008
n_e =	25 %		
V =	$\frac{1.04E+03 * 7.69E-03}{0.25}$		
V =	32 feet/year		

[O:KJS 10/29/25, C:NRK 1/21/26]

APPENDICES

APPENDIX A
LABORATORY REPORTS

To: Eric Kovatch
PSB Annex A231

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



Report Date: Monday, June 2, 2025

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

Sample Description: **W-20D** **P4 Landfill CCR Well Sample**
 Sample ID: AE78432 Sample Collection Date/Time: 04/29/2025 10:35
 Sample Received: 05/01/2025 Sample Collector: NATE DUDA

<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	17.93	0.05	feet		1		H2OD	4/29/25	NATE DUDA
Field Temperature	14	0.1	Degrees t		1		TEMP	4/29/25	NATE DUDA
Field Conductivity	634	0	umhos		1		FCOND25	4/29/25	NATE DUDA
Field pH	7.5	0.1	Units	0.1	1		FIELDPH	4/29/25	NATE DUDA
Total Dissolved Solids	432	20	mg/L		1		Std Mtd 2540 C	5/5/25	SAA
Total Filtered Alkalinity as CaCO3	100	20	mg/l		1		Std Mtd 2320 B	5/28/25	AEU
Total Chloride	10	0.059	mg/L	0.198	1		EPA 300.0	5/9/25	AEU
Total Fluoride	0.95	0.012	mg/L	0.039	1		EPA 300.0	5/9/25	AEU
Total Sulfate	150	0.24	mg/L	0.78	1		EPA 300.0	5/9/25	AEU
Total Boron	0.5	0.017	mg/L	0.04	1		EPA 200.7	5/8/25	20
Total Calcium	27.6	0.11	mg/L	0.5	1		EPA 200.7	5/8/25	20
Total Hardness as CaCO3	145	1	mg/L	5.4	1		Std Mtd 2340B	5/8/25	20

Sample Comments:

Sample Description: **W-73** **P4 Landfill CCR Well Sample**
 Sample ID: AE78433 Sample Collection Date/Time: 04/29/2025 14:27
 Sample Received: 05/01/2025 Sample Collector: NATE DUDA

<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	22.11	0.05	feet		1		H2OD	4/29/25	NATE DUDA
Field Temperature	12	0.1	Degrees t		1		TEMP	4/29/25	NATE DUDA
Field Conductivity	534	0	umhos		1		FCOND25	4/29/25	NATE DUDA
Field pH	8.0	0.1	Units	0.1	1		FIELDPH	4/29/25	NATE DUDA
Total Dissolved Solids	170	20	mg/L		1		Std Mtd 2540 C	5/5/25	SAA
Total Filtered Alkalinity as CaCO3	100	20	mg/l		1		Std Mtd 2320 B	6/2/25	CMW
Total Chloride	11	0.059	mg/L	0.198	1		EPA 300.0	5/9/25	AEU
Total Fluoride	0.94	0.012	mg/L	0.039	1		EPA 300.0	5/9/25	AEU
Total Sulfate	110	0.24	mg/L	0.78	1		EPA 300.0	5/9/25	AEU
Dissolved Sulfate	110	0.0062	mg/L	0.021	1		EPA 300.0	5/9/25	AEU
Total Alkalinity as CaCO3	100	20	mg/L		1		SM 2320 B-1997	6/2/25	CMW
Total Boron	0.5	0.017	mg/L	0.04	1		EPA 200.7	5/8/25	20
Total Calcium	22.5	0.11	mg/L	0.5	1		EPA 200.7	5/8/25	20
Total Hardness as CaCO3	117	1	mg/L	5.4	1		Std Mtd 2340B	5/8/25	20

Report Date: Monday, June 2, 2025

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

Sample Description: W-73 P4 Landfill CCR Well Sample
Sample ID: AE78433 Sample Collection Date/Time: 04/29/2025 14:27
Sample Received: 05/01/2025 Sample Collector: NATE DUDA

<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 Organic Carbon	1.8	0.19	mg/L	0.5	1		Std Mtd 5310C	5/8/25	20
Dissolved Molybdenum	99.7	2.4	ug/L	10	1		EPA 200.7	5/6/25	20
Dissolved Selenium	Less Than	12.2	ug/L	40	1	U	EPA 200.7	5/6/25	20
Dissolved Boron	462	2.8	ug/L	9.4	1		EPA 200.7	5/6/25	020
Dissolved Hardness as CaCO3 ug/L	98300	1000	ug/L	5400	1		Std Mtd 2340B	5/6/25	020

Sample Comments:

Alkalinity analyzed past hold time due to discovery of incorrect probe installed by Hanna service rep. Delays in supply chain caused excessive wait times for correct probe to be delivered. Sample was reanalyzed with correct probe installed. CAR closed out.

Sample Description: W-75 P4 Landfill CCR Well Sample
Sample ID: AE78434 Sample Collection Date/Time: 04/29/2025 12:11
Sample Received: 05/01/2025 Sample Collector: NATE DUDA

<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	22.49	0.05	feet		1		H2OD	4/29/25	NATE DUDA
Field Temperature	11	0.1	Degrees C		1		TEMP	4/29/25	NATE DUDA
Field Conductivity	547	0	umhos		1		FCOND25	4/29/25	NATE DUDA
Field pH	7.9	0.1	Units	0.1	1		FIELDPH	4/29/25	NATE DUDA
Total Dissolved Solids	342	20	mg/L		1		Std Mtd 2540 C	5/5/25	SAA
Total Filtered Alkalinity as CaCO3	120	20	mg/l		1	H1	Std Mtd 2320 B	5/30/25	AEU
Total Chloride	8.5	0.059	mg/L	0.198	1		EPA 300.0	5/9/25	AEU
Total Fluoride	0.95	0.012	mg/L	0.039	1		EPA 300.0	5/9/25	AEU
Total Sulfate	110	0.24	mg/L	0.78	1		EPA 300.0	5/9/25	AEU
Total Boron	0.44	0.017	mg/L	0.04	1		EPA 200.7	5/9/25	20
Total Calcium	19.8	0.11	mg/L	0.5	1		EPA 200.7	5/9/25	20
Total Hardness as CaCO3	105	1	mg/L	5.4	1		Std Mtd 2340B	5/9/25	20
Dissolved Calcium	18500	114	ug/L	500	1		EPA 200.7	5/6/25	20
Total Magnesium	13.4	0.18	mg/L	1	1		EPA 200.7	5/9/25	20

Sample Comments:

Alkalinity analyzed past hold time due to discovery of incorrect probe installed by Hanna service rep. Delays in supply chain caused excessive wait times for correct probe to be delivered. Sample was reanalyzed with correct probe installed. CAR closed out.

Sample Description: W-76 P4 Landfill CCR Well Sample
Sample ID: AE78435 Sample Collection Date/Time: 04/29/2025 12:52
Sample Received: 05/01/2025 Sample Collector: NATE DUDA

<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	23.59	0.05	feet		1		H2OD	4/29/25	NATE DUDA
Field Temperature	11	0.1	Degrees C		1		TEMP	4/29/25	NATE DUDA

Report Date: Monday, June 2, 2025

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

Sample Description: W-76 P4 Landfill CCR Well Sample
Sample ID: AE78435 Sample Collection Date/Time: 04/29/2025 12:52
Sample Received: 05/01/2025 Sample Collector: NATE DUDA

<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 Conductivity	547	0	umhos		1		FCOND25	4/29/25	NATE DUDA
Field pH	8.2	0.1	Units	0.1	1		FIELDPH	4/29/25	NATE DUDA
Total Dissolved Solids	332	20	mg/L		1		Std Mtd 2540 C	5/5/25	SAA
Total Filtered Alkalinity as CaCO3	110	20	mg/l		1		Std Mtd 2320 B	5/28/25	AEU
Total Chloride	10	0.059	mg/L	0.198	1		EPA 300.0	5/9/25	AEU
Total Fluoride	0.91	0.012	mg/L	0.039	1		EPA 300.0	5/9/25	AEU
Total Sulfate	120	0.24	mg/L	0.78	1		EPA 300.0	5/9/25	AEU
Total Boron	0.49	0.017	mg/L	0.04	1		EPA 200.7	5/8/25	20
Total Calcium	20.5	0.11	mg/L	0.5	1		EPA 200.7	5/8/25	20
Total Hardness as CaCO3	106	1	mg/L	5.4	1		Std Mtd 2340B	5/8/25	20

Sample Comments:

Sample Description: W-77 P4 Landfill CCR Well Sample
Sample ID: AE78436 Sample Collection Date/Time: 04/29/2025 13:38
Sample Received: 05/01/2025 Sample Collector: NATE DUDA

<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	17.53	0.05	feet		1		H2OD	4/29/25	NATE DUDA
Field Temperature	11	0.1	Degrees C		1		TEMP	4/29/25	NATE DUDA
Field Conductivity	588	0	umhos		1		FCOND25	4/29/25	NATE DUDA
Field pH	7.6	0.1	Units	0.1	1		FIELDPH	4/29/25	NATE DUDA
Total Dissolved Solids	356	20	mg/L		1		Std Mtd 2540 C	5/5/25	SAA
Total Filtered Alkalinity as CaCO3	140	20	mg/l		1	H1	Std Mtd 2320 B	5/30/25	AEU
Total Chloride	7.9	0.059	mg/L	0.198	1		EPA 300.0	5/9/25	AEU
Total Fluoride	1.0	0.012	mg/L	0.039	1		EPA 300.0	5/9/25	AEU
Total Sulfate	110	0.24	mg/L	0.78	1		EPA 300.0	5/9/25	AEU
Total Boron	0.47	0.017	mg/L	0.04	1		EPA 200.7	5/8/25	20
Total Calcium	27.3	0.11	mg/L	0.5	1		EPA 200.7	5/8/25	20
Total Hardness as CaCO3	131	1	mg/L	5.4	1		Std Mtd 2340B	5/8/25	20

Sample Comments:

Alkalinity analyzed past hold time due to discovery of incorrect probe installed by Hanna service rep. Delays in supply chain caused excessive wait times for correct probe to be delivered. Sample was reanalyzed with correct probe installed. CAR closed out.

Report Date: Monday, June 2, 2025

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

Sample Description: **QC** **P4 Landfill CCR Well Sample**
Sample ID: AE78437 Sample Collection Date/Time: 04/29/2025 11:36
Sample Received: 05/01/2025 Sample Collector: NATE DUDA

<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	368	20	mg/L		1		Std Mtd 2540 C	5/5/25	SAA
Total Filtered Alkalinity as CaCO3	96	20	mg/l		1	H1	Std Mtd 2320 B	5/30/25	AEU
Total Chloride	13	0.059	mg/L	0.198	1		EPA 300.0	5/9/25	AEU
Total Fluoride	0.94	0.012	mg/L	0.039	1		EPA 300.0	5/9/25	AEU
Total Sulfate	140	0.24	mg/L	0.78	1		EPA 300.0	5/9/25	AEU
Total Boron	0.45	0.017	mg/L	0.04	1		EPA 200.7	5/8/25	20
Total Calcium	21.1	0.11	mg/L	0.5	1		EPA 200.7	5/8/25	20
Total Hardness as CaCO3	120	1	mg/L	5.4	1		Std Mtd 2340B	5/8/25	20

Sample Comments:

Alkalinity analyzed past hold time due to discovery of incorrect probe installed by Hanna service rep. Delays in supply chain caused excessive wait times for correct probe to be delivered. Sample was reanalyzed with correct probe installed. CAR closed out.

Sample Description: **W-74** **P4 Landfill CCR Well Sample**
Sample ID: AE78439 Sample Collection Date/Time: 04/29/2025 11:31
Sample Received: 05/01/2025 Sample Collector: NATE DUDA

<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	19.83	0.05	feet		1		H2OD	4/29/25	NATE DUDA
Field Temperature	11	0.1	Degrees t		1		TEMP	4/29/25	NATE DUDA
Field Conductivity	599	0.	umhos		1		FCOND25	4/29/25	NATE DUDA
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	4/29/25	NATE DUDA
Total Dissolved Solids	356	20	mg/L		1		Std Mtd 2540 C	5/5/25	SAA
Total Filtered Alkalinity as CaCO3	100	20	mg/l		1	H1	Std Mtd 2320 B	5/30/25	AEU
Total Chloride	13	0.059	mg/L	0.198	1		EPA 300.0	5/9/25	AEU
Total Fluoride	0.94	0.012	mg/L	0.039	1		EPA 300.0	5/9/25	AEU
Total Sulfate	140	0.24	mg/L	0.78	1		EPA 300.0	5/9/25	AEU
Total Boron	0.45	0.017	mg/L	0.04	1		EPA 200.7	5/8/25	20
Total Calcium	21.8	0.11	mg/L	0.5	1		EPA 200.7	5/8/25	20
Total Hardness as CaCO3	124	1	mg/L	5.4	1		Std Mtd 2340B	5/8/25	20

Sample Comments:

Alkalinity analyzed past hold time due to discovery of incorrect probe installed by Hanna service rep. Delays in supply chain caused excessive wait times for correct probe to be delivered. Sample was reanalyzed with correct probe installed. CAR closed out.

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: Tuesday, December 2, 2025

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

Sample Description: **W-73** **P4 Landfill CCR Well Sample**
 Sample ID: AE82457 Sample Collection Date/Time: 10/22/2025 12:08
 Sample Received: 10/22/2025 Sample Collector: KJG

<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 Boron	409	3.0	ug/L	10.0	1		EPA 200.7	11/11/25	20
Dissolved Molybdenum	96.1	0.44	ug/L	1.5	1		EPA 200.7	11/8/25	20
Dissolved Selenium	0.32	0.32	ug/L	1.1	1	<	EPA 200.7	11/8/25	20
Dissolved Calcium	17300	76.2	ug/L	250	1		EPA 200.7	11/8/25	20
Dissolved Magnesium	10700	31.2	ug/L	100	1		EPA 200.7	11/8/25	20
Dissolved Sodium	71000	42	ug/L	100	1		EPA 200.7	11/11/25	20
Dissolved Potassium	1390	237	ug/L	789	1		EPA 200.7	11/8/25	20
Total Filtered Alkalinity as CaCO3	117	5.0	mg/L	10.0	1		Std Mtd 2320 B	10/30/25	20
Dissolved Sulfate	126	2.2	mg/L	10.0	5		EPA 300.0	11/10/25	20
Dissolved Organic Carbon	2.3	0.19	mg/L	0.50	1		Std Mtd 5310C	11/7/25	20
Total Chloride in Groundwater	11.1	0.59	mg/L	2.0	1		EPA 300.0	10/25/25	20
Total Fluoride in Groundwater	1.0	0.095	mg/L	0.32	1		EPA 300.0	10/25/25	20
Total Sulfate	128	2.2	mg/L	10.0	5		EPA 300.0	10/27/25	20
Dissolved Chloride	11.7	3.0	mg/L	10.00	5		EPA 300.0	11/10/25	20
Carbonate Ion	5.0	5.0	mg/L	10.0	1	<	CO3	10/30/25	20
Total Dissolved Solids	444	20	mg/L		1		Std Mtd 2540 C	10/27/25	SA A
Total Alkalinity as CaCO3	118	5.0	mg/L	10.0	1		SM 2320 B-1997	11/3/25	20
Total Boron	0.392	0.003	mg/L	0.010	1		EPA 200.7	11/8/25	020
Total Calcium	18.5	0.0762	ug/L	0.250	1		EPA 200.7	11/8/25	20
Total Hardness as CaCO3	94.6	0.32	mg/L	1.0	1		Std Mtd 2340B	11/8/25	020
Bicarbonate Ion	117	5.0	mg/L	10.0	1		HCO3	10/30/25	20
Dissolved Hardness as CaCO3 ug/L	87.5	0.32	mg/L	1.0	1		Std Mtd 2340B	11/8/25	020
Field Temperature	12.8	0.1	Degrees t		1		TEMP	10/22/25	RAMBOLL
Field Water Level	24.75	0.05	feet		1		H2OD	10/22/25	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	10/22/25	RAMBOLL
Field Conductivity	477	0	umhos		1		FCOND25	10/22/25	RAMBOLL

Sample Comments:

Sample Description: **W-20D** **P4 Landfill CCR Well Sample**
 Sample ID: AE82462 Sample Collection Date/Time: 10/21/2025 10:08
 Sample Received: 10/22/2025 Sample Collector: KJG

<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>
------------------	---------------	------------	--------------	------------	------------	--------------------	------------------------	----------------------	----------------

Report Date: Tuesday, December 2, 2025

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

Sample Description: W-20D P4 Landfill CCR Well Sample
 Sample ID: AE82462 Sample Collection Date/Time: 10/21/2025 10:08
 Sample Received: 10/22/2025 Sample Collector: KJG

<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	175	2.2	mg/L	10.0	5		EPA 300.0	11/10/25	20
Total Chloride in Groundwater	10.6	0.59	mg/L	2.0	1		EPA 300.0	10/25/25	20
Total Fluoride in Groundwater	1.1	0.095	mg/L	0.32	1		EPA 300.0	10/25/25	20
Total Sulfate	214	4.4	mg/L	20.0	10		EPA 300.0	11/1/25	20
Dissolved Chloride	11.3	3.0	mg/L	10.0	5		EPA 300.0	11/10/25	020
Carbonate Ion	5.0	5.0	mg/L	10.0	1	<	CO3	11/3/25	20
Total Dissolved Solids	428	20	mg/L		1		Std Mtd 2540 C	10/27/25	SA A
Total Alkalinity as CaCO3	118	5.0	mg/L	10.0	1		SM 2320 B-1997	11/3/25	20
Total Boron	0.416	0.003	mg/L	0.010	1		EPA 200.7	11/8/25	020
Total Calcium	23.7	0.0762	ug/L	0.250	1		EPA 200.7	11/8/25	020
Total Hardness as CaCO3	122	0.32	mg/L	1.0	1		Std Mtd 2340B	11/8/25	020
Dissolved Calcium	23000	76.2	ug/L	250	1		EPA 200.7	11/6/25	20
Dissolved Magnesium	14600	31.2	ug/L	100	1		EPA 200.7	11/6/25	20
Dissolved Potassium	2870	237	ug/L	789	1		EPA 200.7	11/6/25	20
Dissolved Sodium	75400	420	ug/L	1000	10		EPA 200.7	11/6/25	20
Bicarbonate Ion	118	5.0	mg/L	10.0	1		HCO3	11/3/25	20
Field Temperature	14.8	0.1	Degrees t		1		TEMP	10/21/25	RAMBOLL
Field Water Level	21.6	0.05	feet		1		H2OD	10/21/25	RAMBOLL
Field pH	7.6	0.1	Units	0.1	1		FIELDPH	10/21/25	RAMBOLL
Field Conductivity	570.9	0	umhos		1		FCOND25	10/21/25	RAMBOLL

Sample Comments:

Sample Description: W-74 P4 Landfill CCR Well Sample
 Sample ID: AE82463 Sample Collection Date/Time: 10/21/2025 13:09
 Sample Received: 10/22/2025 Sample Collector: KJG

<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	162	2.2	mg/L	10.0	5		EPA 300.0	11/10/25	20
Total Chloride in Groundwater	14.3	0.59	mg/L	2.0	1		EPA 300.0	10/25/25	20
Total Fluoride in Groundwater	1.0	0.095	mg/L	0.32	1		EPA 300.0	10/25/25	20
Total Sulfate	197	4.4	mg/L	20.0	10		EPA 300.0	11/1/25	20
Dissolved Chloride	15.0	3.0	mg/L	10.0	5		EPA 300.0	11/10/25	020
Carbonate Ion	5.0	5.0	mg/L	10.0	1	<	CO3	11/3/25	20
Total Dissolved Solids	368	20	mg/L		1		Std Mtd 2540 C	10/27/25	SA A
Total Alkalinity as CaCO3	108	5.0	mg/L	10.0	1		SM 2320 B-1997	11/3/25	20
Total Boron	0.378	0.003	mg/L	0.010	1		EPA 200.7	11/8/25	020
Total Calcium	20.2	0.0762	ug/L	0.250	1		EPA 200.7	11/8/25	020
Total Hardness as CaCO3	108	0.32	mg/L	1.0	1		Std Mtd 2340B	11/8/25	020
Dissolved Calcium	20400	76.2	ug/L	250	1	D9	EPA 200.7	11/6/25	20
Dissolved Magnesium	14100	31.2	ug/L	100	1	D9	EPA 200.7	11/6/25	20
Dissolved Potassium	2600	237	ug/L	789	1		EPA 200.7	11/6/25	20

Report Date: Tuesday, December 2, 2025

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

Sample Description: W-74 P4 Landfill CCR Well Sample
Sample ID: AE82463 Sample Collection Date/Time: 10/21/2025 13:09
Sample Received: 10/22/2025 Sample Collector: KJG

<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 Sodium	72900	42	ug/L	100	1		EPA 200.7	11/6/25	20
Bicarbonate Ion	108	5.0	mg/L	10.0	1		HCO3	11/3/25	20
Field Temperature	13.1	0.1	Degrees t		1		TEMP	10/21/25	RAMBOLL
Field Water Level	23.63	0.05	feet		1		H2OD	10/21/25	RAMBOLL
Field pH	8.1	0.1	Units	0.1	1		FIELDPH	10/21/25	RAMBOLL
Field Conductivity	542.5	0	umhos		1		FCOND25	10/21/25	RAMBOLL

Sample Comments:

Sample Description: W-75 P4 Landfill CCR Well Sample
Sample ID: AE82464 Sample Collection Date/Time: 10/21/2025 14:02
Sample Received: 10/22/2025 Sample Collector: KJG

<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	128	2.2	mg/L	10.0	5		EPA 300.0	11/10/25	20
Total Chloride in Groundwater	8.5	0.59	mg/L	2.0	1		EPA 300.0	10/25/25	20
Total Fluoride in Groundwater	1.1	0.095	mg/L	0.32	1		EPA 300.0	10/25/25	20
Total Sulfate	157	4.4	mg/L	20.0	10		EPA 300.0	11/1/25	20
Dissolved Chloride	9.4	3.0	mg/L	10.0	5	JD3	EPA 300.0	11/10/25	020
Carbonate Ion	5.0	5.0	mg/L	10.0	1	<	CO3	11/3/25	20
Total Dissolved Solids	318	20	mg/L		1		Std Mtd 2540 C	10/27/25	SAA
Total Alkalinity as CaCO3	122	5.0	mg/L	10.0	1		SM 2320 B-1997	11/3/25	20
Total Boron	0.407	0.003	mg/L	0.010	1		EPA 200.7	11/8/25	020
Total Calcium	19.0	0.0762	ug/L	0.250	1		EPA 200.7	11/8/25	020
Total Hardness as CaCO3	100	0.32	mg/L	1.0	1		Std Mtd 2340B	11/8/25	020
Dissolved Calcium	18100	76.2	ug/L	250	1		EPA 200.7	11/6/25	20
Dissolved Magnesium	11700	31.2	ug/L	100	1		EPA 200.7	11/6/25	20
Dissolved Potassium	2410	237	ug/L	789	1		EPA 200.7	11/6/25	20
Dissolved Sodium	64100	42	ug/L	100	1		EPA 200.7	11/6/25	20
Bicarbonate Ion	122	5.0	mg/L	10.0	1		HCO3	11/3/25	20
Field Temperature	13.5	0.1	Degrees t		1		TEMP	10/21/25	RAMBOLL
Field Water Level	25.65	0.05	feet		1		H2OD	10/21/25	RAMBOLL
Field pH	7.6	0.1	Units	0.1	1		FIELDPH	10/21/25	RAMBOLL
Field Conductivity	487.2	0	umhos		1		FCOND25	10/21/25	RAMBOLL

Sample Comments:

Report Date: Tuesday, December 2, 2025

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

Sample Description: **W-76** **P4 Landfill CCR Well Sample**
 Sample ID: AE82465 Sample Collection Date/Time: 10/22/2025 08:33
 Sample Received: 10/22/2025 Sample Collector: KJG

<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	134	2.2	mg/L	10.0	5		EPA 300.0	11/10/25	20
Total Chloride in Groundwater	10.5	0.59	mg/L	2.0	1		EPA 300.0	10/25/25	20
Total Fluoride in Groundwater	1.0	0.095	mg/L	0.32	1		EPA 300.0	10/25/25	20
Total Sulfate	165	4.4	mg/L	20.0	10		EPA 300.0	11/1/25	20
Dissolved Chloride	11.1	3.0	mg/L	10.0	5		EPA 300.0	11/10/25	020
Carbonate Ion	5.0	5.0	mg/L	10.0	1	<	CO3	11/3/25	20
Total Dissolved Solids	334	20	mg/L		1		Std Mtd 2540 C	10/27/25	SA A
Total Alkalinity as CaCO3	117	5.0	mg/L	10.0	1		SM 2320 B-1997	11/3/25	20
Total Boron	0.409	0.003	mg/L	0.010	1		EPA 200.7	11/8/25	020
Total Calcium	18.7	0.0762	ug/L	0.250	1		EPA 200.7	11/8/25	020
Total Hardness as CaCO3	93.3	0.32	mg/L	1.0	1		Std Mtd 2340B	11/8/25	020
Dissolved Calcium	18000	76.2	ug/L	250	1		EPA 200.7	11/6/25	20
Dissolved Magnesium	11100	31.2	ug/L	100	1		EPA 200.7	11/6/25	20
Dissolved Potassium	1890	237	ug/L	789	1		EPA 200.7	11/6/25	20
Dissolved Sodium	67600	42	ug/L	100	1		EPA 200.7	11/6/25	20
Bicarbonate Ion	117	5.0	mg/L	10.0	1		HCO3	11/3/25	20
Field Temperature	10.8	0.1	Degrees C		1		TEMP	10/22/25	RAMBOLL
Field Water Level	26.48	0.05	feet		1		H2OD	10/22/25	RAMBOLL
Field pH	7.9	0.1	Units	0.1	1		FIELDPH	10/22/25	RAMBOLL
Field Conductivity	492.3	0	umhos		1		FCOND25	10/22/25	RAMBOLL

Sample Comments:

Sample Description: **W-77** **P4 Landfill CCR Well Sample**
 Sample ID: AE82466 Sample Collection Date/Time: 10/22/2025 11:11
 Sample Received: 10/22/2025 Sample Collector: KJG

<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	129	2.2	mg/L	10.0	5		EPA 300.0	11/10/25	20
Total Chloride in Groundwater	8.0	0.59	mg/L	2.0	1		EPA 300.0	10/25/25	20
Total Fluoride in Groundwater	1.1	0.095	mg/L	0.32	1		EPA 300.0	10/25/25	20
Total Sulfate	158	4.4	mg/L	20.0	10		EPA 300.0	11/1/25	20
Dissolved Chloride	8.9	3.0	mg/L	10.0	5	JD3	EPA 300.0	11/10/25	020
Carbonate Ion	5.0	5.0	mg/L	10.0	1	<	CO3	11/3/25	20
Total Dissolved Solids	356	20	mg/L		1		Std Mtd 2540 C	10/27/25	SA A
Total Alkalinity as CaCO3	150	5.0	mg/L	10.0	1		SM 2320 B-1997	11/3/25	20
Total Boron	0.414	0.003	mg/L	0.010	1		EPA 200.7	11/8/25	020
Total Calcium	24.7	0.0762	ug/L	0.250	1		EPA 200.7	11/8/25	020
Total Hardness as CaCO3	116	0.32	mg/L	1.0	1		Std Mtd 2340B	11/8/25	020
Dissolved Calcium	23200	76.2	ug/L	250	1		EPA 200.7	11/6/25	20
Dissolved Magnesium	12400	31.2	ug/L	100	1		EPA 200.7	11/6/25	20
Dissolved Potassium	1910	237	ug/L	789	1		EPA 200.7	11/6/25	20

Report Date: Tuesday, December 2, 2025

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

Sample Description: W-77 P4 Landfill CCR Well Sample
Sample ID: AE82466 Sample Collection Date/Time: 10/22/2025 11:11
Sample Received: 10/22/2025 Sample Collector: KJG

<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 Sodium	73100	42	ug/L	100	1		EPA 200.7	11/6/25	20
Field Temperature	12.4	0.1	Degrees t		1		TEMP	10/22/25	RAMBOLL
Bicarbonate Ion	150	5.0	mg/L	10.0	1		HCO3	11/3/25	20
Field Water Level	20.48	0.05	feet		1		H2OD	10/22/25	RAMBOLL
Field pH	7.9	0.1	Units	0.1	1		FIELDPH	10/22/25	RAMBOLL
Field Conductivity	528.1	0	umhos		1		FCOND25	10/22/25	RAMBOLL

Sample Comments:

Sample Description: QA/QC 3 P4 Landfill CCR Well Sample
Sample ID: AE82467 Sample Collection Date/Time: 10/22/2025 11:16
Sample Received: 10/22/2025 Sample Collector: KJG

<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	129	2.2	mg/L	10.0	5		EPA 300.0	11/10/25	20
Total Chloride in Groundwater	8.0	0.59	mg/L	2.0	1		EPA 300.0	10/25/25	20
Total Fluoride in Groundwater	1.1	0.095	mg/L	0.32	1		EPA 300.0	10/25/25	20
Total Sulfate	158	4.4	mg/L	20.0	10		EPA 300.0	11/1/25	20
Dissolved Chloride	9.1	3.0	mg/L	10.0	5	JD3	EPA 300.0	11/10/25	020
Carbonate Ion	5.0	5.0	mg/L	10.0	1	<	CO3	11/3/25	20
Total Dissolved Solids	346	20	mg/L		1		Std Mtd 2540 C	10/27/25	SAA
Total Alkalinity as CaCO3	152	5.0	mg/L	10.0	1		SM 2320 B-1997	11/3/25	20
Total Boron	0.436	0.003	mg/L	0.010	1		EPA 200.7	11/8/25	020
Total Calcium	25.4	0.0762	ug/L	0.250	1		EPA 200.7	11/8/25	020
Total Hardness as CaCO3	0.119	0.32	mg/L	1.0	1		Std Mtd 2340B	11/8/25	020
Dissolved Calcium	23700	76.2	ug/L	250	1		EPA 200.7	11/6/25	20
Dissolved Magnesium	12500	31.2	ug/L	100	1		EPA 200.7	11/6/25	20
Dissolved Potassium	1940	237	ug/L	789	1		EPA 200.7	11/6/25	20
Dissolved Sodium	74600	42	ug/L	100	1		EPA 200.7	11/6/25	20
Field Temperature	12.4	0.1	Degrees t		1		TEMP	10/22/25	RAMBOLL
Bicarbonate Ion	152	5.0	mg/L	10.0	1		HCO3	11/3/25	20

Sample Comments:

Report Date: Tuesday, December 2, 2025

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

Sample Description: **EB 3** **P4 Landfill CCR Well Sample**
Sample ID: AE82468 Sample Collection Date/Time: 10/22/2025 12:45
Sample Received: 10/22/2025 Sample Collector: KJG

<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	0.44	0.44	mg/L	2.0	1	<	EPA 300.0	11/10/25	20
Total Chloride in Groundwater	0.59	0.59	mg/L	2.0	1	<	EPA 300.0	10/25/25	20
Total Fluoride in Groundwater	0.095	0.095	mg/L	0.32	1	<	EPA 300.0	10/25/25	20
Total Sulfate	0.44	0.44	mg/L	2.0	1	<	EPA 300.0	10/25/25	20
Dissolved Chloride	0.59	0.59	mg/L	2.0	1	<	EPA 300.0	11/10/25	020
Carbonate Ion	5.0	5.0	mg/L	10.0	1	<	CO3	11/3/25	20
Total Dissolved Solids	6	20	mg/L		1	J	Std Mtd 2540 C	10/27/25	SAA
Total Alkalinity as CaCO3	5.0	5.0	mg/L	10.0	1	<	SM 2320 B-1997	11/3/25	20
Total Boron	0.003	0.003	mg/L	0.010	1	<	EPA 200.7	11/8/25	020
Total Calcium	0.0762	0.0762	mg/L	0.250	1	<	EPA 200.7	11/8/25	020
Total Hardness as CaCO3	0.32	0.32	mg/L	1.0	1	<	Std Mtd 2340B	11/8/25	020
Dissolved Calcium	76.2	76.2	ug/L	250	1	<	EPA 200.7	11/6/25	20
Dissolved Magnesium	31.2	31.2	ug/L	100	1	<	EPA 200.7	11/6/25	20
Dissolved Potassium	237	237	ug/L	789	1	<	EPA 200.7	11/6/25	20
Dissolved Sodium	42	42	ug/L	100	1	<	EPA 200.7	11/6/25	20
Bicarbonate Ion	5	5.0	mg/L	10.0	1	<	HCO3	11/3/25	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