

Prepared for
We Energies

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Project No.
1940114239

2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLEASANT PRAIRIE POWER PLANT ASH LANDFILL



Bright ideas. Sustainable change.

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

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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
P4	Pleasant Prairie 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 Pleasant Prairie Power Plant (P4) near Pleasant Prairie, Wisconsin.

Groundwater is being monitored at the P4 Ash Landfill 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 of 40 CFR § 257 Appendix III constituents in groundwater monitoring wells at P4 Ash Landfill. The following constituents and wells had SSIs detected in 2025:

- Boron (B) – W73 and W76
- Total Dissolved Solids (TDS) – W73

Alternate Source Demonstrations (ASDs) prepared in prior years for these parameters and monitoring locations, with exception of TDS at W73, provide lines of evidence that the SSIs observed during the Detection Monitoring Program were not due to a release from P4 but were either from an error in sampling or analysis or from naturally occurring conditions (*e.g.*, natural variation in groundwater quality). TDS at W73 was addressed in an ASD dated June 16, 2025 (**Appendix C**).

The P4 Ash Landfill 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 P4 Ash Landfill located in Pleasant Prairie, Wisconsin.

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 an SSI 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 an SSI 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 the P4 Ash Landfill 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 the P4 Ash Landfill 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 (SAP), Pleasant Prairie Power Plant Ash Landfill* (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**. Results for analysis of additional samples required by Ch. NR 507 Wisconsin Administrative Code are included in some reports because they were collected during the same sampling events, but are not summarized in this report.

Analytical data were evaluated in accordance with the *Statistical Analysis Plan, Pleasant Prairie Power Plant Ash Landfill* (Natural Resource Technology, Inc., an OBG Company, 2017) to determine any SSIs of 40 CFR § 257 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 October 15 and 16, 2024 (Detection Monitoring Round 15) and April 29, 2025 (Detection Monitoring Round 16) sampling events were completed in 2025 and within 90 days of receipt of the analytical data. SSIs over background concentrations for Appendix III constituents were identified; SSI parameters and well locations are provided in **Table A**.

An ASD for the TDS SSI determined at W73 during Detection Monitoring Round 15 was prepared within 90 days of the SSI determination and is included in **Appendix C**. The ASD was prepared in accordance with 40 CFR 257.94(e)(2) and provides a description, data, and pertinent information to support that the SSIs observed during Detection Monitoring Round 15 were not due to a release from the P4 but were either errors in sampling, analysis, statistical evaluation, or from naturally occurring conditions (e.g. natural variation in groundwater quality). ASDs dated April 15, 2018 and May 5, 2019 provided a description, data, and pertinent information supporting an alternate source for the remaining wells and parameters with SSIs in Detection Monitoring Rounds 15-16.

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
15	October 15 and 16, 2024	December 17, 2024	Appendix III	W73 (Boron, TDS)	March 17, 2025	April 15, 2018 (Boron) June 16, 2025 (TDS)
16	April 29, 2025	June 2, 2025	Appendix III	W73 (Boron), W76 (Boron)	August 31, 2025	NA ¹
17	October 21 and 22, 2025	December 2, 2025	Appendix III	TBD	TBD Before March 2, 2026	TBD

Notes:

NA: not applicable

TBD: to be determined

¹The ASDs previously completed on April 15, 2018 and May 5, 2019 for the P4 Ash Landfill provided a description, data, and pertinent information supporting an alternate source for the wells and parameters with SSIs identified during the April 29, 2025 sampling event.

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 40 CFR § 257 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 P4 Ash Landfill 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, Pleasant Prairie Power Plant Ash Landfill, Pleasant Prairie, Wisconsin, December 8, 2015.*

Natural Resource Technology, Inc., an OBG Company, 2017, *Statistical Analysis Plan, Pleasant Prairie Power Plant Ash Landfill, Pleasant Prairie, Wisconsin, October 17, 2017.*

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"	10/15/2024	666.46
				4/29/2025	670.48
				10/21/2025	666.81
W77	Background (Upgradient)	42°33'45.2513"	-87°53'54.2383"	10/15/2024	667.87
				4/29/2025	669.70
				10/22/2025	666.75
W73	Compliance (Downgradient)	42°33'57.0560"	-87°53'57.3214"	10/16/2024	666.66
				4/29/2025	668.47
				10/22/2025	665.83
W74	Compliance (Downgradient)	42°33'56.9099"	-87°54'14.3343"	10/15/2024	666.09
				4/29/2025	667.00
				10/21/2025	663.20
W75	Compliance (Downgradient)	42°33'56.8116"	-87°54'08.8120"	10/15/2024	666.46
				4/29/2025	667.42
				10/21/2025	664.26
W76	Compliance (Downgradient)	42°33'56.4738"	-87°54'01.8036"	10/16/2024	666.43
				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 - Appendix III Parameters

Date Range: 10/01/2024 to 12/31/2025

Well Id	Date Sampled	Lab Id	Boron, total, mg/L	Calcium, total, mg/L	Chloride, total, mg/L	Fluoride, total, mg/L	pH (Field), SU	Sulfate, total, mg/L
W20D	10/15/2024	AE75101	0.470	26.2	10.0	1.10	7.8	190
	4/29/2025	AE78432	0.500	27.6	10.0	0.95	7.5	150
	10/21/2025	AE82462	0.416	0.0	10.6	1.10	7.6	214
W73	10/16/2024	AE75099					8.3	
		AE75108	0.470	21.9	10.0	1.10		130
	4/29/2025	AE78433	0.500	22.5	11.0	0.94	8.0	110
	10/22/2025	AE82457	0.392	0.0	11.1	1.00	8.3	128
W74	10/15/2024	AE75102	0.430	21.7	14.0	1.10	8.2	170
	4/29/2025	AE78439	0.450	21.8	13.0	0.94	7.8	140
	10/21/2025	AE82463	0.378	0.0	14.3	1.00	8.1	197
W75	10/15/2024	AE75103	0.450	20.5	8.1	1.10	8.1	130
	4/29/2025	AE78434	0.440	19.8	8.5	0.95	7.9	110
	10/21/2025	AE82464	0.407	0.0	8.5	1.10	7.6	157
W76	10/16/2024	AE75104	0.450	19.4	9.9	1.10	8.3	140
	4/29/2025	AE78435	0.490	20.5	10.0	0.91	8.2	120
	10/22/2025	AE82465	0.409	0.0	10.5	1.00	7.9	165
W77	10/15/2024	AE75105	0.430	25.3	7.7	1.10	7.8	130
	4/29/2025	AE78436	0.470	27.3	7.9	1.00	7.6	110
	10/22/2025	AE82466	0.414	0.0	8.0	1.10	7.9	158

Pleasant Prairie Ash LF
Table 2. Analytical Results - Appendix III Parameters

Date Range: 10/01/2024 to 12/31/2025

Well Id	Date Sampled	Lab Id	TDS, mg/L
W20D	10/15/2024	AE75101	400
	4/29/2025	AE78432	432
	10/21/2025	AE82462	428
W73	10/16/2024	AE75108	460
	4/29/2025	AE78433	170
	10/22/2025	AE82457	444
W74	10/15/2024	AE75102	390
	4/29/2025	AE78439	356
	10/21/2025	AE82463	368
W75	10/15/2024	AE75103	380
	4/29/2025	AE78434	342
	10/21/2025	AE82464	318
W76	10/16/2024	AE75104	370
	4/29/2025	AE78435	332
	10/22/2025	AE82465	334
W77	10/15/2024	AE75105	370
	4/29/2025	AE78436	356
	10/22/2025	AE82466	356

Notes:

Exceedance of Background

TABLE 3

STATISTICAL BACKGROUND VALUES

2025 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLEASANT PRAIRIE POWER PLANT ASH LANDFILL

PLEASANT PRAIRIE, WI

Parameter	Statistical Background Value (LPL/UPL)
40 C.F.R. Part 257 Appendix III	
Boron (mg/L)	0.455
Calcium (mg/L)	38.1
Chloride (mg/L)	21.3
Fluoride (mg/L)	1.13
pH (field) (SU)	7.2/9.6
Sulfate (mg/L)	230
Total Dissolved Solids (mg/L)	457

Notes:

[O: AFH 12/23/22; C: EJT 1/21/23]

40 C.F.R. = Title 40 of the Code of Federal Regulations

LPL = Lower Prediction Limit (applicable for pH only)

mg/L = milligrams per liter

SU = Standard Units

UPL = Upper Prediction Limit

FIGURES



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

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

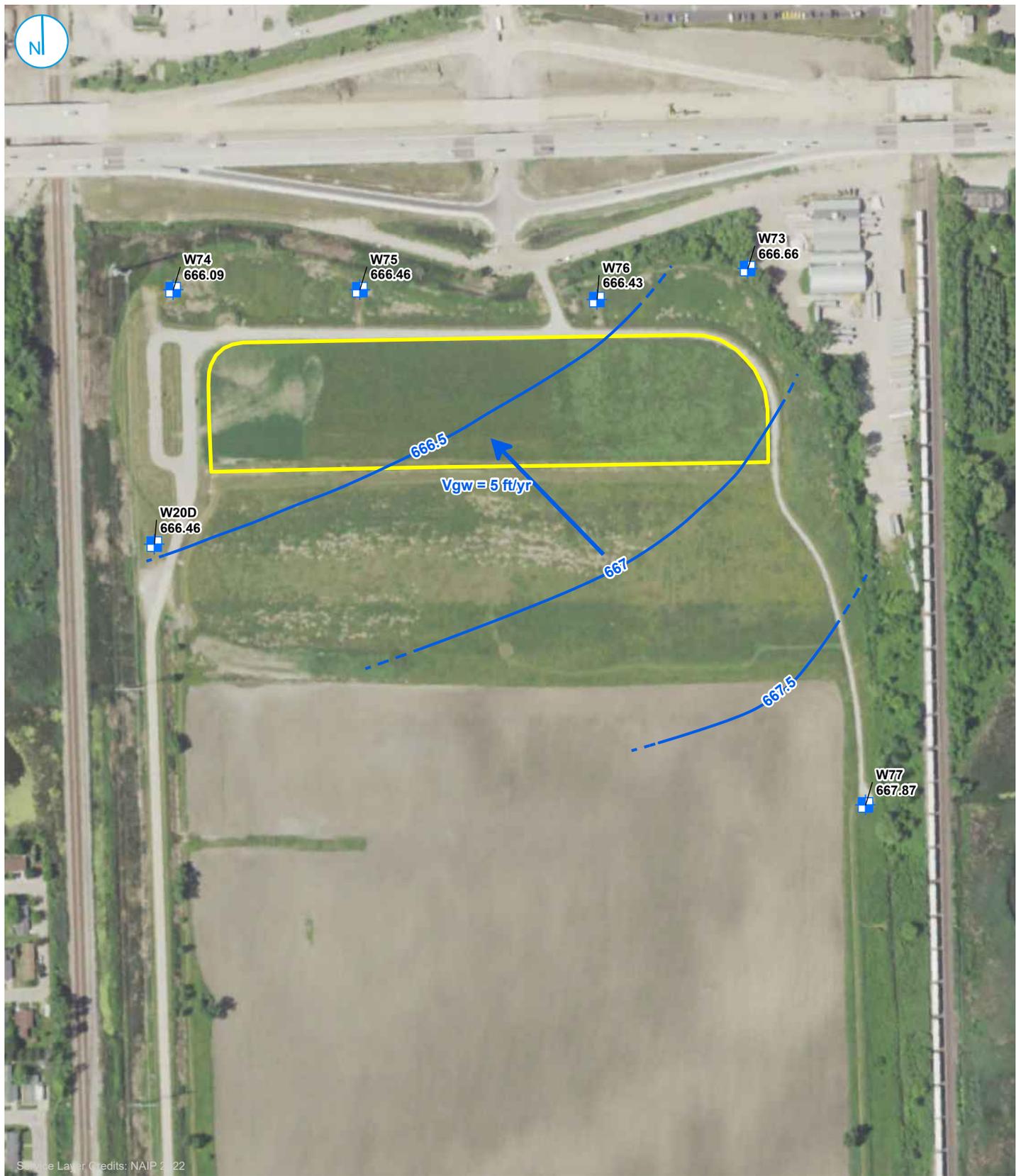
MONITORING WELL LOCATION MAP

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

FIGURE 1

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 OCTOBER 15 AND 16, 2024

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

FIGURE 2

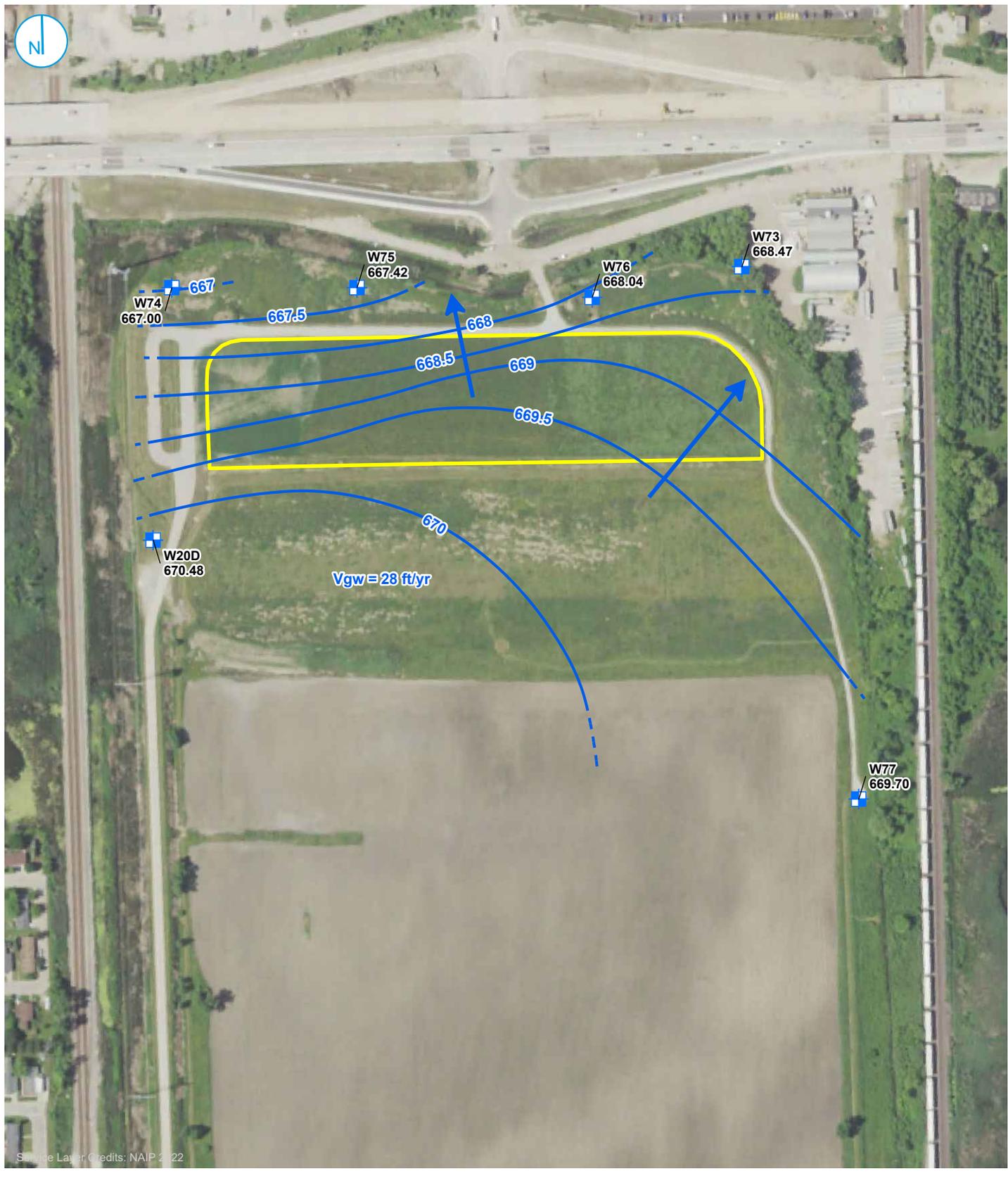
RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



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

OCTOBER 2024	$V = K i / n_e$		V = Groundwater Velocity K = Hydraulic Conductivity i = Hydraulic Gradient (unitless value) n_e = Effective Porosity
UPPERMOST AQUIFER			
Contours	667.5 to 667.0	North to Northeast Across the Landfill	Elevation Change (ft) Distance Change (ft)
K =	1.04E+03 ft/yr	Geometric mean for Landfill 3 (all)	
i =	0.001	between contours identified above	0.5 / 460
n_e =	25 %		0.001
V =	$\frac{1.04E+03 * 1.09E-03}{0.25}$		
V =	5 feet/year		

[O:KJS 11/25/2024 , C: NRK 1/28/2025]



- ▭ 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 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**

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

FIGURE 4

RAMBOLL AMERICAS
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**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
K =	1.04E+03 ft/yr		Geometric mean for Landfill		Change
i =	0.008		between contours identified above		Change
n_e =	25 %			(ft)	(ft)
				0.5 /	65
V =	$\frac{1.04E+03 * 7.69E-03}{0.25}$				0.008
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: Saturday, December 28, 2024

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

Sample Description: **W20A P4 Landfill Semi Annual Sample**
 Sample ID: AE75083 Sample Collection Date/Time: 10/14/2024 10:09
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	6.07	0.05	feet		1		H2OD	10/14/24	RAMBOLL
Field Temperature	12.2	0.1	Degrees t		1		TEMP	10/14/24	RAMBOLL
Field Conductivity	1198	0	umhos		1		FCOND25	10/14/24	RAMBOLL
Field pH	7.5	0.1	Units	0.1	1		FIELDPH	10/14/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	280	20	mg/l		1		Std Mtd 2320 B	10/28/24	AEU
Dissolved Sulfate	97	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	2.2	0.19	ppm	0.50	1	H1	Std Mtd 5310C	11/12/24	020
Dissolved Boron	346	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	16.4	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	406	10	mg/L	5.4	10		Std Mtd 2340B	10/24/24	020

Sample Comments:

Sample Description: **W20C P4 Landfill Semi Annual Sample**
 Sample ID: AE75084 Sample Collection Date/Time: 10/14/2024 10:50
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	5.16	0.05	feet		1		H2OD	10/14/24	RAMBOLL
Field Temperature	15.1	0.1	Degrees t		1		TEMP	10/14/24	RAMBOLL
Field Conductivity	3190	0	umhos		1		FCOND25	10/14/24	RAMBOLL
Field pH	6.9	0.1	Units	0.1	1		FIELDPH	10/14/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	410	20	mg/l		1		Std Mtd 2320 B	10/28/24	AEU
Dissolved Sulfate	510	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	2.3	0.19	ppm	0.50	1	H1	Std Mtd 5310C	11/12/24	020
Dissolved Boron	288	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	4.7	2.4	ug/L	10.0	1	J	EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	1630	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Report Date: Saturday, December 28, 2024

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

Sample Comments:

Sample Description: **W31C P4 Landfill Semi Annual Sample**
Sample ID: AE75085 Sample Collection Date/Time: 10/14/2024 11:30
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	5.07	0.05	feet		1		H2OD	10/14/24	RAMBOLL
Field Temperature	15.1	0.1	Degrees t		1		TEMP	10/14/24	RAMBOLL
Field Conductivity	892	0	umhos		1		FCOND25	10/14/24	RAMBOLL
Field pH	7.9	0.1	Units	0.1	1		FIELDPH	10/14/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	300	20	mg/l		1		Std Mtd 2320 B	10/28/24	AEU
Dissolved Sulfate	96	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	1.2	0.19	ppm	0.50	1	H1	Std Mtd 5310C	11/12/24	020
Dissolved Boron	124	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	12.6	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	431	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Sample Comments:

Sample Description: **W28 P4 Landfill Semi Annual Sample**
Sample ID: AE75086 Sample Collection Date/Time: 10/14/2024 12:08
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	5.99	0.05	feet		1		H2OD	10/14/24	RAMBOLL
Field Temperature	16.1	0.1	Degrees t		1		TEMP	10/14/24	RAMBOLL
Field Conductivity	1417	0	umhos		1		FCOND25	10/14/24	RAMBOLL
Field pH	7.2	0.1	Units	0.1	1		FIELDPH	10/14/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	330	20	mg/l		1		Std Mtd 2320 B	10/28/24	AEU
Dissolved Sulfate	260	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	1.0	0.19	ppm	0.50	1	H1	Std Mtd 5310C	11/12/24	020
Dissolved Boron	214	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	8.5	2.4	ug/L	10.0	1	J	EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	866	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Report Date: Saturday, December 28, 2024

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

Sample Comments:

Sample Description: **P10RR P4 Landfill Semi Annual Sample**
 Sample ID: AE75087 Sample Collection Date/Time: 10/14/2024 13:02
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	2.13	0.05	feet		1		H2OD	10/14/24	RAMBOLL
Field Temperature	14.4	0.1	Degrees t		1		TEMP	10/14/24	RAMBOLL
Field Conductivity	2179	0	umhos		1		FCOND25	10/14/24	RAMBOLL
Field pH	7.0	0.1	Units	0.1	1		FIELDPH	10/14/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	520	20	mg/l		1		Std Mtd 2320 B	11/6/24	AEU
Dissolved Sulfate	82	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	3.9	0.19	ppm	0.50	1	H1	Std Mtd 5310C	11/12/24	020
Dissolved Boron	282	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	9.8	2.4	ug/L	10.0	1	J	EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	699	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Sample Comments:

Sample Description: **W19 P4 Landfill Semi Annual Sample**
 Sample ID: AE75088 Sample Collection Date/Time: 10/14/2024 14:00
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	11.79	0.05	feet		1		H2OD	10/14/24	RAMBOLL
Field Temperature	14.1	0.1	Degrees t		1		TEMP	10/14/24	RAMBOLL
Field Conductivity	2103	0	umhos		1		FCOND25	10/14/24	RAMBOLL
Field pH	7.1	0.1	Units	0.1	1		FIELDPH	10/14/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	410	20	mg/l		1		Std Mtd 2320 B	10/28/24	AEU
Dissolved Sulfate	350	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	1.8	0.19	ppm	0.50	1	H1	Std Mtd 5310C	11/12/24	020
Dissolved Boron	512	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	5.3	2.4	ug/L	10.0	1	J	EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	1090	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Report Date: Saturday, December 28, 2024

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

Sample Comments:

Sample Description: **EB -1 P4 Landfill Semi Annual Sample**
Sample ID: AE75089 Sample Collection Date/Time: 10/14/2024 14:28
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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 Temperature	15.5	0.1	Degrees C		1		TEMP	10/14/24	RAMBOLL
Field Conductivity	54	0	umhos		1		FCOND25	10/14/24	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	10/14/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	Less Than	20	mg/l		1		Std Mtd 2320 B	10/28/24	AEU
Dissolved Sulfate	0.58	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	Less Than	0.19	ppm	0.50	1	H1	Std Mtd 5310C	11/12/24	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	1.72	1	mg/L	5.4	1	J	Std Mtd 2340B	10/24/24	020

Sample Comments:

Sample Description: **W20B P4 Landfill Semi Annual Sample**
Sample ID: AE75090 Sample Collection Date/Time: 10/15/2024 09:18
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	6.18	0.05	feet		1		H2OD	10/15/24	RAMBOLL
Field Temperature	11.6	0.1	Degrees C		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	1023	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	7.3	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	250	20	mg/l		1		Std Mtd 2320 B	10/28/24	AEU
Dissolved Sulfate	120	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	1.4	0.19	ppm	0.50	1	H1	Std Mtd 5310C	11/12/24	020
Dissolved Boron	337	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	24.9	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	372	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Report Date: Saturday, December 28, 2024

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

Sample Comments:

Sample Description: **W16R P4 Landfill Semi Annual Sample**
Sample ID: AE75091 Sample Collection Date/Time: 10/15/2024 12:40
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	5.32	0.05	feet		1		H2OD	10/15/24	RAMBOLL
Field Temperature	14.0	0.1	Degrees t		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	1100	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	7.00	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	420	20	mg/l		1		Std Mtd 2320 B	11/6/24	AEU
Dissolved Sulfate	240	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	3.2	0.19	ppm	0.50	1	H1	Std Mtd 5310C	11/12/24	020
Dissolved Boron	902	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	12.9	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	838	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020
Duplicate Result SO4-IC-GW-AS14	240	0.020	mg/L		1			11/8/24	AEU

Sample Comments:

Sample Description: **QAQC1 P4 Landfill Semi Annual Sample**
Sample ID: AE75092 Sample Collection Date/Time: 10/15/2024 00:00
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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 Filtered Alkalinity as CaCO3	260	20	mg/l		1		Std Mtd 2320 B	10/28/24	AEU
Dissolved Sulfate	120	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	1.4	0.19	ppm	0.50	1		Std Mtd 5310C	11/12/24	020
Dissolved Boron	325	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	24.9	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	386	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Sample Comments:

Report Date: Saturday, December 28, 2024

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

Sample Description: **W35C P4 Landfill Semi Annual Sample**
Sample ID: AE75093 Sample Collection Date/Time: 10/15/2024 14:08
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	3.45	0.05	feet		1		H2OD	10/15/24	RAMBOLL
Field Temperature	12.9	0.1	Degrees C		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	2981	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	7.1	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	420	20	mg/l		1		Std Mtd 2320 B	11/6/24	AEU
Dissolved Sulfate	57	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	1.8	0.19	ppm	0.50	1		Std Mtd 5310C	11/12/24	020
Dissolved Boron	105	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	2.5	2.4	ug/L	10.0	1	J	EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	793	10	mg/L	5.4	10		Std Mtd 2340B	10/24/24	020

Sample Comments:

Sample Description: **EB - 2 P4 Landfill Semi Annual Sample**
Sample ID: AE75094 Sample Collection Date/Time: 10/15/2024 14:40
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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 Temperature	11.9	0.1	Degrees C		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	94.1	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	5.0	20	mg/l		1		Std Mtd 2320 B	11/6/24	AEU
Dissolved Sulfate	0.40	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	0.27	0.19	ppm	0.50	1	J	Std Mtd 5310C	11/12/24	020
Dissolved Boron	Less Than	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	Less Than	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	13.0	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Sample Comments:

Sample Description: **W17BR P4 Landfill Semi Annual Sample**
Sample ID: AE75095 Sample Collection Date/Time: 10/16/2024 09:44
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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>
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Report Date: Saturday, December 28, 2024

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

Sample Description: **W17BR P4 Landfill Semi Annual Sample**
Sample ID: AE75095 Sample Collection Date/Time: 10/16/2024 09:44
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	13.57	0.05	feet		1		H2OD	10/16/24	RAMBOLL
Field Temperature	10.8	0.1	Degrees t		1		TEMP	10/16/24	RAMBOLL
Field Conductivity	928	0	umhos		1		FCOND25	10/16/24	RAMBOLL
Field pH	8.5	0.1	Units	0.1	1		FIELDPH	10/16/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	100	20	mg/l		1		Std Mtd 2320 B	11/6/24	AEU
Dissolved Sulfate	19	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	2.2	0.19	ppm	0.50	1		Std Mtd 5310C	11/12/24	020
Dissolved Boron	661	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	158	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	47.2	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Sample Comments:

Sample Description: **QAQC 2 P4 Landfill Semi Annual Sample**
Sample ID: AE75096 Sample Collection Date/Time: 10/16/2024 00:00
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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 Filtered Alkalinity as CaCO3	110	20	mg/l		1		Std Mtd 2320 B	11/6/24	AEU
Dissolved Sulfate	19	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	2.2	0.19	ppm	0.50	1		Std Mtd 5310C	11/12/24	020
Dissolved Boron	659	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	158	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	47.4	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Sample Comments:

Sample Description: **W17AR P4 Landfill Semi Annual Sample**
Sample ID: AE75097 Sample Collection Date/Time: 10/16/2024 10:21
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	13.02	0.05	feet		1		H2OD	10/16/24	RAMBOLL
Field Temperature	14.8	0.1	Degrees t		1		TEMP	10/16/24	RAMBOLL
Field Conductivity	466	0	umhos		1		FCOND25	10/16/24	RAMBOLL

Report Date: Saturday, December 28, 2024

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

Sample Description: **W17AR P4 Landfill Semi Annual Sample**
Sample ID: AE75097 Sample Collection Date/Time: 10/16/2024 10:21
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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 pH	8.0	0.1	Units	0.1	1		FIELDPH	10/16/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	130	20	mg/l		1		Std Mtd 2320 B	11/6/24	AEU
Dissolved Sulfate	33	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	4.4	0.19	ppm	0.50	1		Std Mtd 5310C	11/12/24	020
Dissolved Boron	630	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	275	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	77.0	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020
Duplicate Result SO4-IC-GW-AS14	33	0.020	mg/L		1			11/8/24	AEU

Sample Comments:

Sample Description: **W17CR P4 Landfill Semi Annual Sample**
Sample ID: AE75098 Sample Collection Date/Time: 10/16/2024 11:23
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	7.93	0.05	feet		1		H2OD	10/16/24	RAMBOLL
Field Temperature	15.0	0.1	Degrees t		1		TEMP	10/16/24	RAMBOLL
Field Conductivity	2127	0	umhos		1		FCOND25	10/16/24	RAMBOLL
Field pH	7.2	0.1	Units	0.1	1		FIELDPH	10/16/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	440	20	mg/l		1		Std Mtd 2320 B	11/6/24	AEU
Dissolved Sulfate	290	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	1.5	0.19	ppm	0.50	1		Std Mtd 5310C	11/12/24	020
Dissolved Boron	690	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	13.2	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	0.40	0.32	ug/L	1.1	1	J	EPA 200.8	10/23/24	020
Total Hardness as CaCO3	711	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Sample Comments:

Sample Description: **W73 P4 Landfill Semi Annual Sample**
Sample ID: AE75099 Sample Collection Date/Time: 10/16/2024 12:08
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	23.92	0.05	feet		1		H2OD	10/16/24	RAMBOLL

Report Date: Saturday, December 28, 2024

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

Sample Description: **W73 P4 Landfill Semi Annual Sample**
 Sample ID: AE75099 Sample Collection Date/Time: 10/16/2024 12:08
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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 Temperature	11.6	0.1	Degrees C		1		TEMP	10/16/24	RAMBOLL
Field Conductivity	608	0	umhos		1		FCOND25	10/16/24	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	10/16/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	100	20	mg/l		1		Std Mtd 2320 B	11/6/24	AEU
Dissolved Sulfate	110	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Organic Carbon	2.0	0.19	ppm	0.50	1		Std Mtd 5310C	11/12/24	020
Dissolved Boron	458	17.3	ug/L	40.0	1		EPA 200.7	10/24/24	020
Dissolved Molybdenum	105	2.4	ug/L	10.0	1		EPA 200.7	10/24/24	020
Dissolved Selenium	Less Than	0.32	ug/L	1.1	1		EPA 200.8	10/23/24	020
Total Hardness as CaCO3	101	1	mg/L	5.4	1		Std Mtd 2340B	10/24/24	020

Sample Comments:

Sample Description: **L-Tank P4 Landfill Sample**
 Sample ID: AE75100 Sample Collection Date/Time: 10/16/2024 12:45
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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 Temperature	14.7	0.1	Degrees C		1		TEMP	10/16/24	RAMBOLL
Field Conductivity	1173	0	umhos		1		FCOND25	10/16/24	RAMBOLL
Field pH	7.9	0.1	Units	0.1	1		FIELDPH	10/16/24	RAMBOLL
Biochemical Oxygen Demand	2	2	mg/L	2	1	WW-O	Std Mtd 5210B	10/23/24	057
COD	17.2	14.7	mg/L	50.0	1	J	EPA 410.4	10/30/24	020
Total Suspended Solids	935	1	mg/L	3	1		Std Mtd 2540 D	10/23/24	SAA
Total Alkalinity as CaCO3	80	20	mg/L		1		SM 2320 B-1997	11/7/24	AEU
Total Chloride	54	0.059	mg/L	0.198	1		EPA 300.0	11/5/24	AEU
Total Sulfate	230	0.24	mg/L	0.78	1		EPA 300.0	11/5/24	AEU
Total Boron	1280	173	ug/L	400	10		EPA 200.7	10/25/24	020
Total Cadmium	Less Than	1.3	ug/L	5.0	1		EPA 200.7	10/25/24	020
Total Iron	8730	56.7	ug/L	100	1		EPA 200.7	10/25/24	020
Total Lead	11.0	5.9	ug/L	20.0	1	J	EPA 200.7	10/25/24	020
Total Manganese	253	1.5	ug/L	5.0	1		EPA 200.7	10/25/24	020
Total Molybdenum	194	2.4	ug/L	10.0	1		EPA 200.7	10/25/24	020
Total Selenium	15.2	0.63	ug/L	2.1	2		EPA 200.8	10/29/24	020
Total Hardness as CaCO3	582	10	mg/L	54	10		Std Mtd 2340B	10/25/24	020
Total Calcium	144000	1140	ug/L	5000	10		EPA 200.7	10/25/24	020
Total Magnesium	54100	182	ug/L	1000	1		EPA 200.7	10/25/24	020
Total Potassium	6800	320	ug/L	1000	1		EPA 200.7	12/13/24	020
Total Sodium	85900	350	ug/L	500	1		EPA 200.7	12/13/24	020
Total Mercury	205	1.7	ng/L	5.7	10		EPA 1631E	12/5/24	AEU

Report Date: Saturday, December 28, 2024

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

Sample Comments:

Sample Description: **W20D P4 Landfill CCR Well Sample**
 Sample ID: AE75101 Sample Collection Date/Time: 10/15/2024 09:55
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	21.97	0.05	feet		1		H2OD	10/15/24	RAMBOLL
Field Temperature	10.7	0.1	Degrees t		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	722	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Dissolved Solids	400	20	mg/L		1		Std Mtd 2540 C	10/23/24	SAA
Total Fluoride	1.1	0.012	mg/L	0.039	1	H1	EPA 300.0	12/12/24	AEU
Total Chloride	10	0.059	mg/L	0.198	1	H1	EPA 300.0	12/12/24	AEU
Total Sulfate	190	0.24	mg/L	0.78	1		EPA 300.0	12/12/24	AEU
Total Boron	470	17	ug/L	40	1		EPA 200.7	10/25/24	020
Total Calcium	26200	110	ug/L	500	1		EPA 200.7	10/25/24	020
Total Hardness as CaCO3	137	1	mg/L	5.4	1		Std Mtd 2340B	10/25/24	020
Total Alkalinity as CaCO3	110	20	mg/L		1		SM 2320 B-1997	10/31/24	AEU
Carbonate Ion	0.6	0.1	mg/L		1		CO3	10/31/24	AEU
Bicarbonate Ion	109.3	5.0	mg/L		1		HCO3	10/31/24	AEU
Dissolved Chloride	11	0.0031	mg/L	0.010	1		EPA 300.0	11/5/24	AEU
Dissolved Sulfate	140	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Calcium	24500	110	ug/L	500	1		EPA 200.7	10/28/24	020
Dissolved Magnesium	16300	182	ug/L	1000	1		EPA 200.7	10/28/24	020
Dissolved Sodium	89300	3500	ug/L	5000	10		EPA 200.8	10/25/24	020
Dissolved Potassium	3300	325	ug/L	1000	1		EPA 200.7	10/28/24	020

Sample Comments:

Sample Description: **W74 P4 Landfill CCR Well Sample**
 Sample ID: AE75102 Sample Collection Date/Time: 10/15/2024 10:37
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	20.79	0.05	feet		1		H2OD	10/15/24	RAMBOLL
Field Temperature	10.5	0.1	Degrees t		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	679	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	8.2	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Dissolved Solids	390	20	mg/L		1		Std Mtd 2540 C	10/23/24	SAA
Total Fluoride	1.1	0.012	mg/L	0.039	1	H1	EPA 300.0	12/12/24	AEU
Total Chloride	14	0.059	mg/L	0.198	1	H1	EPA 300.0	12/12/24	AEU

Report Date: Saturday, December 28, 2024

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

Sample Description: **W74 P4 Landfill CCR Well Sample**
 Sample ID: AE75102 Sample Collection Date/Time: 10/15/2024 10:37
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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 Sulfate	170	0.24	mg/L	0.78	1	H1	EPA 300.0	12/12/24	AEU
Total Boron	430	17	ug/L	40	1		EPA 200.7	10/25/24	020
Total Calcium	21700	110	ug/L	500	1		EPA 200.7	10/25/24	020
Total Hardness as CaCO3	119	1	mg/L	5.4	1		Std Mtd 2340B	10/25/24	020
Total Alkalinity as CaCO3	100	20	mg/L		1		SM 2320 B-1997	10/31/24	AEU
Carbonate Ion	1.5	0.1	mg/L		1		CO3	10/31/24	AEU
Bicarbonate Ion	98.5	5.0	mg/L		1		HCO3	10/31/24	AEU
Dissolved Chloride	16	0.0031	mg/L	0.010	1		EPA 300.0	11/5/24	AEU
Dissolved Sulfate	130	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Calcium	20600	110	ug/L	500	1		EPA 200.7	10/25/24	020
Dissolved Magnesium	15300	182	ug/L	100	1		EPA 200.7	10/25/24	020
Dissolved Sodium	81700	350	ug/L	500	1		EPA 200.8	10/25/24	020
Dissolved Potassium	2780	325	ug/L	1000	1		EPA 200.7	10/25/24	020

Sample Comments:

Sample Description: **W75 P4 Landfill CCR Well Sample**
 Sample ID: AE75103 Sample Collection Date/Time: 10/15/2024 13:26
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	23.95	0.05	feet		1		H2OD	10/15/24	RAMBOLL
Field Temperature	10.7	0.1	Degrees t		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	621	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	8.1	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Dissolved Solids	380	20	mg/L		1		Std Mtd 2540 C	10/23/24	SAA
Total Fluoride	1.1	0.012	mg/L	0.039	1	H1	EPA 300.0	12/12/24	AEU
Total Chloride	8.1	0.059	mg/L	0.198	1	H1	EPA 300.0	12/12/24	AEU
Total Sulfate	130	0.24	mg/L	0.78	1	H1	EPA 300.0	12/12/24	AEU
Total Boron	450	17	ug/L	40	1		EPA 200.7	10/25/24	020
Total Calcium	20500	110	ug/L	500	1		EPA 200.7	10/25/24	020
Total Hardness as CaCO3	108	1	mg/L	5.4	1		Std Mtd 2340B	10/25/24	020
Total Alkalinity as CaCO3	110	20	mg/L		1		SM 2320 B-1997	10/31/24	AEU
Carbonate Ion	1.3	0.1	mg/L		1		CO3	10/31/24	AEU
Bicarbonate Ion	108.7	5.0	mg/L		1		HCO3	10/31/24	AEU
Dissolved Chloride	9.2	0.0031	mg/L	0.010	1		EPA 300.0	11/5/24	AEU
Dissolved Sulfate	110	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Calcium	20100	110	ug/L	500	1		EPA 200.7	10/25/24	020
Dissolved Magnesium	13400	182	ug/L	1000	1		EPA 200.7	10/25/24	020
Dissolved Sodium	74800	350	ug/L	500	1		EPA 200.8	10/25/24	020
Dissolved Potassium	2740	325	ug/L	1000	1		EPA 200.7	10/25/24	020

Report Date: Saturday, December 28, 2024

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

Sample Comments:

Sample Description: **W76 P4 Landfill CCR Well Sample**
 Sample ID: AE75104 Sample Collection Date/Time: 10/16/2024 08:54
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	25.20	0.05	feet		1		H2OD	10/15/24	RAMBOLL
Field Temperature	10.7	0.1	Degrees t		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	629	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Dissolved Solids	370	20	mg/L		1		Std Mtd 2540 C	10/23/24	SAA
Total Fluoride	1.1	0.012	mg/L	0.039	1	H1	EPA 300.0	12/12/24	AEU
Total Chloride	9.9	0.059	mg/L	0.198	1	H1	EPA 300.0	12/12/24	AEU
Total Sulfate	140	0.24	mg/L	0.78	1	H1	EPA 300.0	12/12/24	AEU
Total Boron	450	17	ug/L	40	1		EPA 200.7	10/25/24	020
Total Calcium	19400	110	ug/L	500	1		EPA 200.7	10/25/24	020
Total Hardness as CaCO3	100	1	mg/L	5.4	1		Std Mtd 2340B	10/25/24	020
Total Alkalinity as CaCO3	110	20	mg/L		1		SM 2320 B-1997	10/31/24	AEU
Carbonate Ion	2.0	0.1	mg/L		1		CO3	10/31/24	AEU
Bicarbonate Ion	107.9	5.0	mg/L		1		HCO3	10/31/24	AEU
Dissolved Chloride	11	0.0031	mg/L	0.010	1		EPA 300.0	11/5/24	AEU
Dissolved Sulfate	120	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Calcium	19800	110	ug/L	500	1		EPA 200.7	10/25/24	020
Dissolved Magnesium	12700	182	ug/L	1000	1		EPA 200.7	10/25/24	020
Dissolved Sodium	80000	350	ug/L	500	1		EPA 200.8	10/25/24	020
Dissolved Potassium	2130	325	ug/L	1000	1		EPA 200.7	10/25/24	020

Sample Comments:

Sample Description: **W77 P4 Landfill CCR Well Sample**
 Sample ID: AE75105 Sample Collection Date/Time: 10/15/2024 11:29
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	19.36	0.05	feet		1		H2OD	10/15/24	RAMBOLL
Field Temperature	10.6	0.1	Degrees t		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	672	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Dissolved Solids	370	20	mg/L		1		Std Mtd 2540 C	10/23/24	SAA
Total Fluoride	1.1	0.012	mg/L	0.039	1	H1	EPA 300.0	12/12/24	AEU
Total Chloride	7.7	0.059	mg/L	0.198	1	H1	EPA 300.0	12/12/24	AEU

Report Date: Saturday, December 28, 2024

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

Sample Description: **W77 P4 Landfill CCR Well Sample**
 Sample ID: AE75105 Sample Collection Date/Time: 10/15/2024 11:29
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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 Sulfate	130	0.24	mg/L	0.78	1	H1	EPA 300.0	12/12/24	AEU
Total Boron	430	17	ug/L	40	1		EPA 200.7	10/25/24	020
Total Calcium	25300	110	ug/L	500	1		EPA 200.7	10/25/24	020
Total Hardness as CaCO3	121	1	mg/L	5.4	1		Std Mtd 2340B	10/25/24	020
Total Alkalinity as CaCO3	140	20	mg/L		1		SM 2320 B-1997	10/31/24	AEU
Carbonate Ion	0.8	0.1	mg/L		1		CO3	10/31/24	AEU
Bicarbonate Ion	139.1	5.0	mg/L		1		HCO3	10/31/24	AEU
Dissolved Chloride	8.7	0.0031	mg/L	0.010	1		EPA 300.0	11/5/24	AEU
Dissolved Sulfate	110	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Calcium	26000	110	ug/L	500	1		EPA 200.7	10/25/24	020
Dissolved Magnesium	14400	182	ug/L	1000	1		EPA 200.7	10/25/24	020
Dissolved Sodium	85700	350	ug/L	500	1		EPA 200.8	10/25/24	020
Dissolved Potassium	2230	325	ug/L	1000	1		EPA 200.7	10/25/24	020

Sample Comments:

Sample Description: **QC P4 Landfill CCR Well Sample**
 Sample ID: AE75106 Sample Collection Date/Time: 10/15/2024 11:34
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	360	20	mg/L		1		Std Mtd 2540 C	10/23/24	SAA
Total Fluoride	1.1	0.012	mg/L	0.039	1	H1	EPA 300.0	12/12/24	AEU
Total Chloride	7.7	0.059	mg/L	0.198	1	H1	EPA 300.0	12/12/24	AEU
Total Sulfate	130	0.24	mg/L	0.78	1	H1	EPA 300.0	12/12/24	AEU
Total Boron	430	17	ug/L	40	1		EPA 200.7	10/25/24	020
Total Calcium	25100	110	ug/L	500	1		EPA 200.7	10/25/24	020
Total Hardness as CaCO3	120	1	mg/L	5.4	1		Std Mtd 2340B	10/25/24	020
Total Alkalinity as CaCO3	140	20	mg/L		1		SM 2320 B-1997	10/31/24	AEU
Carbonate Ion	Less Than	0.1	mg/L		1		CO3	10/31/24	AEU
Bicarbonate Ion	140.0	5.0	mg/L		1		HCO3	10/31/24	AEU
Dissolved Chloride	8.7	0.0031	mg/L	0.010	1		EPA 300.0	11/5/24	AEU
Dissolved Sulfate	110	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Calcium	25000	110	ug/L	500	1		EPA 200.7	10/25/24	020
Dissolved Magnesium	13900	182	ug/L	1000	1		EPA 200.7	10/25/24	020
Dissolved Sodium	82900	350	ug/L	500	1		EPA 200.8	10/25/24	020
Dissolved Potassium	2150	325	ug/L	1000	1		EPA 200.7	10/25/24	020

Report Date: Saturday, December 28, 2024

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

Sample Comments:

Sample Description: **EB P4 Landfill CCR Well Sample**
 Sample ID: AE75107 Sample Collection Date/Time: 10/16/2024 12:15
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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 Temperature	15.0	0.1	Degrees C		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	18.3	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	8.2	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Dissolved Solids	180	20	mg/L		1		Std Mtd 2540 C	10/23/24	SAA
Total Fluoride	Less Than	0.012	mg/L	0.039	1	H1	EPA 300.0	12/12/24	AEU
Total Chloride	Less Than	0.059	mg/L	0.198	1	H1	EPA 300.0	12/12/24	AEU
Total Sulfate	Less Than	0.24	mg/L	0.78	1	H1	EPA 300.0	12/12/24	AEU
Total Boron	Less Than	17	ug/L	40	1		EPA 200.7	10/25/24	020
Total Calcium	Less Than	110	ug/L	500	1		EPA 200.7	10/25/24	020
Total Hardness as CaCO3	Less Than	1	mg/L	5.4	1		Std Mtd 2340B	10/25/24	020
Total Alkalinity as CaCO3	Less Than	20	mg/L		1		SM 2320 B-1997	10/31/24	AEU
Carbonate Ion	Less Than	0.1	mg/L		1		CO3	10/31/24	AEU
Bicarbonate Ion	Less Than	5.0	mg/L		1		HCO3	10/31/24	AEU
Dissolved Chloride	Less Than	0.0031	mg/L	0.010	1		EPA 300.0	11/5/24	AEU
Dissolved Sulfate	Less Than	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Calcium	Less Than	110	ug/L	500	1		EPA 200.7	10/25/24	020
Dissolved Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	10/25/24	020
Dissolved Sodium	422	350	ug/L	500	1	J	EPA 200.8	10/25/24	020
Dissolved Potassium	Less Than	325	ug/L	1000	1		EPA 200.7	10/25/24	020

Sample Comments:

Sample Description: **W73 P4 Landfill CCR Well Sample**
 Sample ID: AE75108 Sample Collection Date/Time: 10/16/2024 12:08
 Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	23.92	0.05	feet		1		H2OD	10/15/24	RAMBOLL
Field Temperature	11.6	0.1	Degrees C		1		TEMP	10/15/24	RAMBOLL
Field Conductivity	608	0	umhos		1		FCOND25	10/15/24	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	10/15/24	RAMBOLL
Total Dissolved Solids	460	20	mg/L		1		Std Mtd 2540 C	10/23/24	SAA
Total Fluoride	1.1	0.012	mg/L	0.039	1	H1	EPA 300.0	12/12/24	AEU
Total Chloride	10	0.059	mg/L	0.198	1	H1	EPA 300.0	12/12/24	AEU
Total Sulfate	130	0.24	mg/L	0.78	1	H1	EPA 300.0	12/12/24	AEU

Report Date: Saturday, December 28, 2024

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

Sample Description: **W73 P4 Landfill CCR Well Sample**
Sample ID: AE75108 Sample Collection Date/Time: 10/16/2024 12:08
Sample Received: 10/17/2024 Sample Collector: KATIE PHILLIPS

<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	470	17	ug/L	40	1		EPA 200.7	10/25/24	020
Total Calcium	21900	110	ug/L	500	1		EPA 200.7	10/25/24	020
Total Hardness as CaCO3	113	1	mg/L	5.4	1		Std Mtd 2340B	10/25/24	020
Total Alkalinity as CaCO3	100	20	mg/L		1		SM 2320 B-1997	10/31/24	AEU
Carbonate Ion	1.8	0.1	mg/L		1		CO3	10/31/24	AEU
Bicarbonate Ion	98.1	5.0	mg/L		1		HCO3	10/31/24	AEU
Dissolved Chloride	12	0.0031	mg/L	0.010	1		EPA 300.0	11/5/24	AEU
Dissolved Sulfate	110	0.0062	mg/L	0.021	1		EPA 300.0	11/5/24	AEU
Dissolved Calcium	19500	114	ug/L	500	1		EPA 200.7	10/25/24	020
Dissolved Magnesium	12900	182	ug/L	1000	1		EPA 200.7	10/25/24	020
Dissolved Sodium	78700	350	ug/L	500	1		EPA 200.8	10/25/24	020
Dissolved Potassium	1540	325	ug/L	1000	1		EPA 200.7	10/25/24	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

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>
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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	SA A
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:

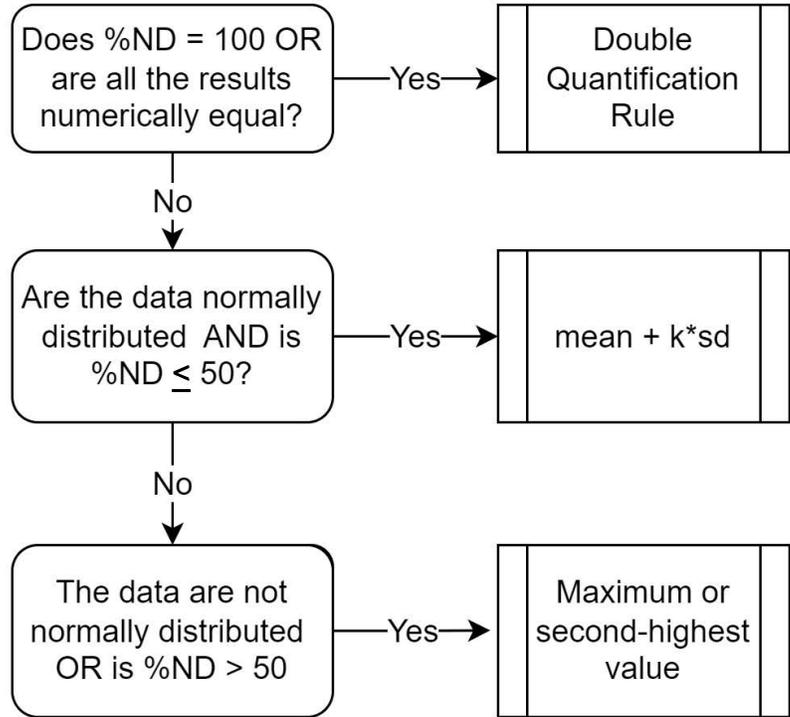
LOD and LOQ are adjusted for dilution factor.

'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

**APPENDIX B
STATISTICAL METHODOLOGY FOR DETERMINATION OF BACKGROUND
VALUES**

Notes
%ND = Percent non-detected samples
sd = standard deviation
k = kappa for site-wide false positive rate
<u>Alpha Levels</u>
Confidence Limit = 0.1



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.

APPENDIX C
ALTERNATE SOURCE DEMONSTRATIONS

Mr. Eric Kovatch
WEC Business Services, LLC
333 W. Everett Street – A231
Milwaukee, WI 53203

40 CFR Section 257.94(e)(2) Alternate Source Demonstration, (ASD) Detection Monitoring Round 15, We Energies Pleasant Prairie Power Plant (P4) Ash Landfill, Pleasant Prairie, WI

Dear Mr. Kovatch:

June 16, 2025

In accordance with Title 40 Code of Federal Regulations (40 CFR) Part 257, Subpart D, Section 257.94(e)(2), Ramboll Americas Engineering Solutions, Inc. (Ramboll) has completed this Alternate Source Demonstration (ASD) for total dissolved solids (TDS) concentrations over background in monitoring well W73 at the P4 Landfill, as presented in Table 1 (attached). Table 1 provides the statistically significant increase (SSI) over background determinations since Detection Monitoring under 40 CFR 257.94 was initiated in 2017, date of those determinations, and ASDs completed.

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Data resulting in SSIs above background for Detection Monitoring Round 15, including wells and parameters, are consistent with Detection Monitoring Rounds 1-14 with exception of total dissolved solids (TDS) concentrations at W73. During Detection Monitoring Round 15 completed on October 15-16, 2024, results from W73 (460 milligrams per liter [mg/L]) were elevated compared to historical results and slightly elevated above the background upper prediction limit of 457 mg/L (**Figure A**), triggering an SSI determination. As a result, the next semiannual sample from Detection Monitoring Round 16 collected on April 29, 2025, was used to confirm the initial results. The observed TDS concentration at W73 (170 mg/L) did not confirm the TDS SSI from the Round 15 event.

Ref. 1940102327

Potentiometric surface maps prepared for the Round 15 and Round 16 sampling events (see Figures 2 and 3 in the 2024 Annual Groundwater Monitoring and Corrective Action Report) indicate generally consistent groundwater flow from south to north. Groundwater flow during the Round 16 event appears to be more directly toward W73 than the Round 15 event, but TDS concentrations were elevated at W73 in the Round 15 event, and the opposite would be anticipated to occur if the P4 Ash Landfill were the source of the elevated TDS concentrations.

As allowed by the *Statistical Analysis Plan*, the Round 16 results did not confirm the SSI observed during the Round 15 event at well W73 and the elevated TDS concentrations observed during the Round 15 event are a result of natural variation in groundwater quality.

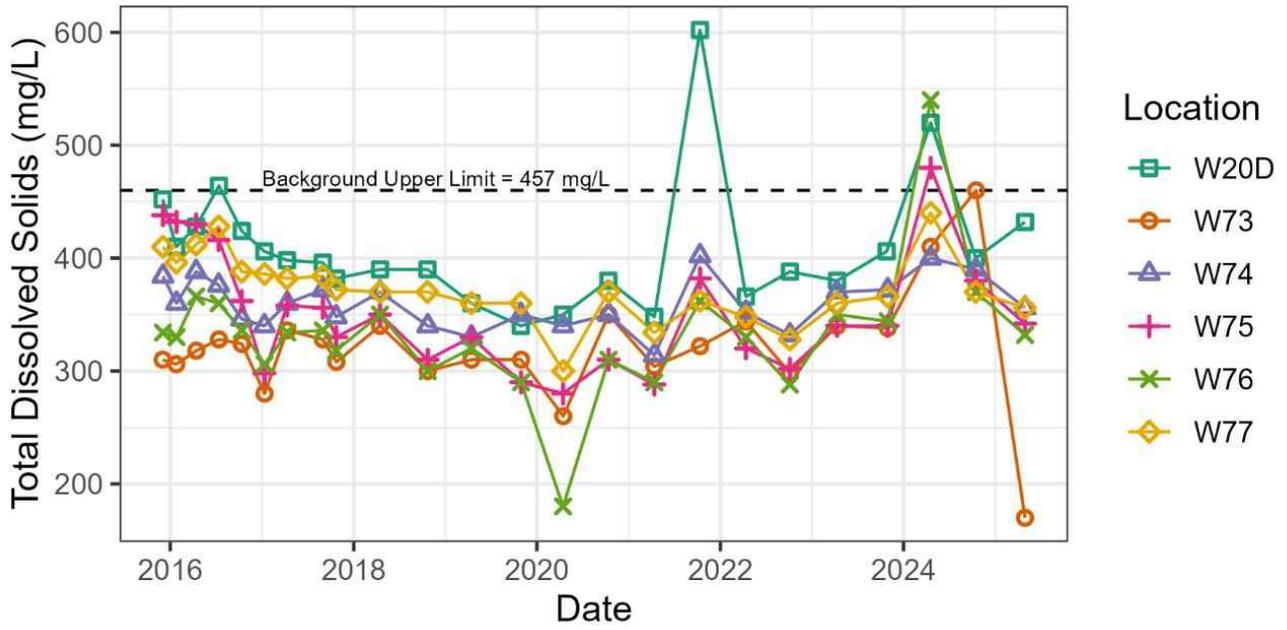


Figure A - Total dissolved solids concentrations observed in groundwater during detection monitoring events at the P4 Ash Landfill.

CONCLUSIONS AND CERTIFICATION

The information presented in this document demonstrates that natural variation in groundwater quality was the cause of the TDS SSI in W73 during the Detection Monitoring Round 15 event.

The preceding information serves as the Alternate Source Demonstration prepared in accordance with 40 C.F.R. § 257.94(e)(2) and supports the position that the SSIs reported during the Detection Monitoring Round 15 event were not due to a release from the P4 Ash Landfill, but were from either errors in sampling, analysis, or statistical evaluation, or natural variation in groundwater quality. Therefore, no further action (i.e., assessment monitoring) is warranted and the P4 Ash Landfill will remain in detection monitoring.


Eric J. Tlachac, PE
Senior Project Manager
Professional Engineer No. 36088-6
State of Wisconsin
Ramboll Americas Engineering Solutions, Inc.
Date: June 16, 2025



I, Eric J. Tlachac, a qualified professional engineer in good standing in the State of Wisconsin, certify that enclosed information is accurate as of the date of my signature below. The content of this report is not to be used for other than its intended purpose and meaning, or for extrapolations beyond the interpretations contained herein.


Nathaniel R. Keller, PG
Senior Technical Manager
Professional Geologist No. 1283-013
State of Wisconsin
Ramboll Americas Engineering Solutions, Inc.
Date: June 16, 2025



I, Nathaniel R. Keller, a qualified professional geologist, certify that the enclosed information is accurate as of the date of my signature below. The content of this report is not to be used for other than its intended purpose and meaning, or for extrapolations beyond the interpretations contained herein.

Attachments: Table 1. Summary of Statistically Significant Increases (SSIs) Over Background

Table 1. Summary of Statistically Significant Increases (SSI) Over Background We Energies Pleasant Prairie Power Plant (P4) Ash Landfill Pleasant Prairie, WI

Monitoring Event	Statistically Significant Increases (SSIs) Over Background Concentration			Alternate Source Demonstration (ASD)	
	SSI Determination Date ¹	SSI Parameters	SSI Wells (Parameters)	Parameters	Date ²
Detection Monitoring Round 1	1/15/2018	Boron (B), Fluoride (F)	W73 (B), W74 (F)	Boron (B), Fluoride (F)	4/15/2018 ³
Detection Monitoring Round 2	8/5/2018	None	None	NA	NA
Detection Monitoring Round 3	2/4/2019	Boron (B)	W76 (B)	Boron (B)	5/5/2019 ⁴
Detection Monitoring Round 4	9/2/2019	None	None	NA	NA
Detection Monitoring Round 5	3/1/2020	pH (low)	W76 (pH)	pH (low)	5/30/2020 ⁵
Detection Monitoring Round 6	8/26/2020	None	None	NA	NA
Detection Monitoring Round 7	2/9/2021	None	None	NA	NA
Detection Monitoring Round 8	8/5/2021	None	None	NA	NA
Detection Monitoring Round 9	2/14/2022	None	None	NA	NA
Detection Monitoring Round 10	8/15/2022	Fluoride (F)	W74 (F), W75 (F)	Fluoride (F)	11/13/2022 ⁶
Detection Monitoring Round 11	3/5/2023	None	None	NA	NA
Detection Monitoring Round 12	8/1/2023	None	None	NA	NA
Detection Monitoring Round 13	2/29/2024	Fluoride (F)	W75 (F)	Fluoride (F)	11/13/2022 ⁶
Detection Monitoring Round 14	9/23/2024	Fluoride (F), Total Dissolved Solids (TDS)	W74 (F), W75 (F, TDS), W76 (F, TDS)	Fluoride (F)	11/13/2022 ⁶
				Total Dissolved Solids (TDS) (W75), Fluoride (F), Total Dissolved Solids (TDS) (W76)	12/22/2024 ⁷
Detection Monitoring Round 15	3/17/2025	Boron (B), Total Dissolved Solids (TDS)	W73 (B, TDS)	Boron (B)	4/15/2018 ³
				Total Dissolved Solids (TDS)	6/16/2025 ⁸

Notes:

ASD - Alternate Source Determination

B - Boron

F - Fluoride

NA - Not applicable

SSI - Statistically Significant Increase

1. Under 40 CFR Section 257.93 (h)(2); Within 90 days of completing sampling and analysis (receipt of data), the owner or operator must determine whether there has been a statistically significant increase over background for any constituent at each monitoring well.

2. 40 CFR Section 257.94(e)(2) allows 90 days to demonstrate that the SSI was caused by a source other than the CCR unit or resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality (i.e., an alternate source demonstration [ASD]).

3. Alternate source demonstration, in accordance with 40 CFR Section 257.94 (E) (2), provided in *Alternate Source Demonstration, Pleasant Prairie Power Plant Ash Landfill, Pleasant Prairie, Wisconsin*; dated April 15, 2018.

4. Alternate source demonstration, in accordance with 40 CFR Section 257.94 (E) (2), provided in *Alternate Source Demonstration, Pleasant Prairie Power Plant Ash Landfill, Pleasant Prairie, Wisconsin*; dated May 5, 2019.

5. Alternate source demonstration, in accordance with 40 CFR Section 257.94 (E) (2), provided in *40 CFR Section 257.94(e)(2) Alternate Source Demonstration (ASD) Detection Monitoring Round 5, We Energies Pleasant Prairie Power Plant (P4) Ash Landfill*; dated May 30, 2020.

6. Alternate source demonstration, in accordance with 40 CFR Section 257.94 (E) (2), provided in *40 CFR Section 257.94(e)(2) Alternate Source Demonstration (ASD) Detection Monitoring Round 10, We Energies Pleasant Prairie Power Plant (P4) Ash Landfill*; dated November 13, 2022.

7. Alternate source demonstration, in accordance with 40 CFR Section 257.94 (E) (2), provided in *40 CFR Section 257.94(e)(2) Alternate Source Demonstration (ASD) Detection Monitoring Round 14, We Energies Pleasant Prairie Power Plant (P4) Ash Landfill*; dated December 22, 2024.

8. Alternate source demonstration, in accordance with 40 CFR Section 257.94 (E) (2), provided in *40 CFR Section 257.94(e)(2) Alternate Source Demonstration (ASD) Detection Monitoring Round 15, We Energies Pleasant Prairie Power Plant (P4) Ash Landfill*; dated December 22, 2024.