

Prepared for
We Energies

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Project No.
1940102327

2024 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLEASANT PRAIRIE POWER PLANT ASH LANDFILL



Bright ideas. Sustainable change.

**2024 CCR 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
ACL	Alternative Concentration Limit
CCR	coal combustion residuals
ES	Enforcement Standard
ESAP	Environmental Sampling and Analysis Plan
mg/L	milligrams per liter
NA	not applicable
P4	Pleasant Prairie Power Plant
PAL	Preventive Action Limit
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
TBD	to be determined
TDS	total dissolved solids
WDNR	Wisconsin Department of Natural Resources
Wis. Adm. Code	Wisconsin Administrative Code

EXECUTIVE SUMMARY

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

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

- WDNR determined in a letter dated April 28, 2023 that the Plan Mod was incomplete and requested additional information. A revised Plan Mod was prepared and submitted on December 15, 2023.
- WDNR determined in a letter dated March 12, 2024 that the revised Plan Mod remained incomplete and requested additional information. Following this request a second revision to the Plan Mod was prepared and submitted on September 6, 2024.
- On November 14, 2024, a notification letter from WDNR provided concurrence on completeness of the Plan Mod. A virtual meeting was held on December 10, 2024, allowing public comment on the Plan Mod, and the comment period remained open until January 10, 2025.

Beginning in 2016, sampling at the P4 Landfill was completed in accordance with the Detection Monitoring Program requirements specified in Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.94. Following the updates to the Wis. Adm. Code in 2022, groundwater sampling was completed in accordance with Ch. NR 507.15(3)(L) (Detection Monitoring) during 2023 and 2024.

Comparisons of the concentrations of detected parameters to NR 140 standards (Preventive Action Limits [PALs] and Enforcement Standards [ESs]) were not completed because Alternative Concentration Limits (ACLs) for these parameters and proposed monitoring locations are pending WDNR decision on the Plan Mod.

No changes were made to the monitoring system in 2024 (no wells were installed or decommissioned).

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of We Energies to provide the information required by Ch. NR 507.15(3)(m) at the P4 Ash Landfill (License #2786) located in Pleasant Prairie, Wisconsin.

In accordance with Ch. NR 507.15(3)(m), the owner or operator of a CCR landfill must prepare an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year that documents the status of the Groundwater Monitoring and Corrective Action Program for the CCR landfill (**Section 2**), summarizes key actions completed (**Section 3**), describes any problems encountered, discusses actions to resolve the problems (**Section 4**), and projects key activities for the upcoming year (**Section 5**). At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR landfill and all upgradient and downgradient monitoring wells, including the well identification numbers, that are part of the groundwater monitoring for the CCR landfill (**Figure 1**).
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken (**Section 3**).
3. In addition to all the monitoring data obtained under Ch. NR 507.15(3)(L) (**Tables 1 and 2**), a summary including the number of groundwater samples that were collected for analysis for each upgradient and downgradient well, the dates the samples were collected, and whether the sample was required by Detection Monitoring or Assessment Monitoring (**Section 3 and Table A**).
4. A narrative discussion of any transition between monitoring including the date and circumstances for transitioning from Detection Monitoring to Assessment Monitoring (**Section 2**) in addition to identifying any constituents detected above Ch. NR 140 standards (**Table A**).
5. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action for the CCR landfill (**Executive Summary**). At a minimum, the summary shall include all of the following:
 - i. At the start of the current annual reporting period, whether the CCR landfill was operating under Detection Monitoring or Assessment Monitoring. (The P4 Ash Landfill began 2024 in Detection Monitoring.)
 - ii. At the end of the current annual reporting period, whether the CCR landfill was operating under Detection Monitoring or Assessment Monitoring. (The P4 Ash Landfill ended 2024 in Detection Monitoring.)
 - iii. If it was determined by the owner or operator that there was a groundwater quality exceedance under Ch. NR 140 for one or more constituents listed under Ch. NR 507 Appendix I for CCR wells, a listing of those constituents, the names of the monitoring wells associated with the exceedances, and the date when the Assessment Monitoring was initiated for the CCR landfill. Comparisons of the concentrations of detected parameters to NR 140 standards were not completed because ACLs for these parameters and proposed monitoring locations are pending a WDNR decision on the Plan Mod.

- iv. If corrective action measures were required, the date when the assessment of corrective measures was initiated for the CCR landfill, the date when the public informational hearing under Ch. NR 508.06(3)(e) was held for the discussion of the results of the remedial action options report, and the date when the assessment of corrective measures was completed. (Corrective action measures were not required for the P4 Ash Landfill in 2024).
- v. If a remedy was required under Ch. NR 508 during the annual reporting period, the date of remedy selection, and whether remedial activities were initiated or are ongoing during the annual reporting period. (A corrective action remedy was not required for the P4 Ash Landfill in 2024).

This report provides the required information for the P4 Ash Landfill for calendar year 2024.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

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

- WDNR determined in a letter dated April 28, 2023 and March 12, 2024 that the Plan Mod and a subsequent revision was incomplete and requested additional information.
- A second revision to the Plan Mod was prepared and submitted on September 6, 2024.
- On November 14, 2024, a notification letter from WDNR provided concurrence on completeness of the Plan Mod. A virtual meeting was held on December 10, 2024, allowing public comment on the Plan Mod and the public comment period remained open until January 10, 2025.

Comparisons of the concentrations of detected parameters to Ch. NR 140 standards (Preventive Action Limits [PALs] and Enforcement Standards [ESs]) were not completed because Alternative Concentration Limits (ACLs) for these parameters and proposed monitoring locations are pending WDNR's decision. Accordingly, no changes have occurred to the monitoring program status in calendar year 2024.

Beginning in 2016 sampling at the WDS3 Landfill was completed in accordance with the Detection Monitoring Program requirements specified in Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.94. Following updates to the Wis. Adm. Code in 2022, groundwater sampling has been completed in accordance with Ch. NR 507.15(3)(L) (Detection Monitoring).

In 2025, groundwater sampling will continue to be completed in accordance with Ch. NR 507.15(3)(L).

3. KEY ACTIONS COMPLETED IN 2024

The Detection Monitoring Program is summarized in **Table A** below. The groundwater monitoring system, including the CCR unit and all background (upgradient) and downgradient monitoring wells, is presented in **Figure 1**. No changes were made to the monitoring system in 2024.

In general, one groundwater sample was collected from each background (upgradient) and downgradient well during each monitoring event. All samples were collected and analyzed in accordance with the *Sampling and Analysis Plan (SAP), Revision 1, Pleasant Prairie Power Plant Ash Landfill* (Ramboll, 2023) submitted as Appendix B of the ESAP Addendum. Potentiometric surface maps for both monitoring events in 2024 are included in **Figure 2 and Figure 3**. Water level data, collected from background and downgradient monitoring wells, are included in **Table 1**. All monitoring data and analytical results obtained under Ch. NR 507.15(3)(L) in the fourth quarter of 2023 and all monitoring events in 2024 are presented in **Table 2**. Laboratory reports for all 2024 monitoring events are included in **Appendix A**. Results for analysis of additional samples required by Ch. NR 507 are included in some reports because they were collected during the same sampling events, but are not summarized in this report.

In 2024, groundwater sampling was completed as summarized below (**Table A**).

Table A. 2024 Detection Monitoring Program Summary

Sampling Date	Purpose	Analytical Data Receipt Date	Parameters Analyzed
April 18, 2024	Detection Monitoring	June 25, 2024	Ch. NR 507 App A Table 1A (Except Total Chloride, Fluoride and Sulfate at W73 ¹)
October 15 and 16, 2024	Detection Monitoring	December 17, 2024	Ch. NR 507 App A Table 1A

¹ During Quarter 2 2024, total chloride, fluoride, and sulfate were not analyzed in groundwater at W73. Investigation into the potential causes of this omission did not identify a clear source of error.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No significant problems were encountered with the Groundwater Monitoring Program during 2024. All groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2025

The following key activities are planned for 2025:

- Detection Monitoring in accordance with Ch. NR 507.15(3)(L) with semi-annual sampling scheduled for the second and fourth quarters of 2025. Expanded leachate sampling also to occur as listed in Ch. NR 507 Appendix I, Tables 4 and 5 as applicable.
- Complete evaluation of analytical data from the compliance wells against Ch. NR 140 standards including PALs, ESs, and/or ACLs, following a WDNR decision on the Plan Mod.
- A notification will be provided to WDNR when results indicate concentrations have attained or exceeded groundwater standards in accordance with Ch. NR 507.30. The notification shall specify the parameters that have attained or exceeded standards, the wells at which the standards (PAL, ES, or ACL) were attained or exceeded, and provide a preliminary analysis of the cause and significance of each concentration in accordance with Chs. NR 140.24(1)(a) or 140.26(1)(a). The notification shall also include the intent to either begin Assessment Monitoring or determine whether a false exceedance occurred.
- As described in Chs. NR 508.06(1)(c) and NR 507.28(3), if a groundwater standard exceedance is detected in a CCR well, a demonstration may be completed to indicating a source other than P4 is the cause or the exceedance is due to an error.
 - If WDNR concurs with the false exceedance demonstration within 30 days of receipt, Detection Monitoring will continue.
 - If WDNR does not concur within 30 days, an Assessment Monitoring Program in accordance with Ch. NR 508.06(2) will be initiated following discussion with WDNR.

6. REFERENCES

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

TABLES

**TABLE 1
GROUNDWATER ELEVATIONS**

2024 CCR ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
PLEASANT PRAIRIE POWER PLANT ASH LANDFILL
PLEASANT PRAIRIE, WI

Well ID	Well Type	Latitude (Degrees, minutes, seconds)	Longitude (Degrees, minutes, seconds)	Date	Groundwater Elevation (ft NAVD88)
W20D	Background (Upgradient)	42°33'51.3592"	-87°54'15.0776"	4/18/2024	670.42
				10/15/2024	666.46
W77	Background (Upgradient)	42°33'45.2513"	-87°53'54.2383"	4/18/2024	670.37
				10/15/2024	667.87
W73	Compliance (Downgradient)	42°33'57.0560"	-87°53'57.3214"	4/18/2024	669.55
				10/16/2024	666.66
W74	Compliance (Downgradient)	42°33'56.9099"	-87°54'14.3343"	4/18/2024	667.90
				10/15/2024	666.09
W75	Compliance (Downgradient)	42°33'56.8116"	-87°54'08.8120"	4/18/2024	668.94
				10/15/2024	666.46
W76	Compliance (Downgradient)	42°33'56.4738"	-87°54'01.8036"	4/18/2024	669.50
				10/16/2024	666.43

Notes:

ft = foot/feet

NAVD88 = North American Vertical Datum of 1988

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

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

Lab Methods:

Well Id	Date Sampled	Lab Id	Alkalinity, lab, mg/L	Boron, total, mg/L	Calcium, total, mg/L	Chloride, total, mg/L	Fluoride, total, mg/L	Hardness, tot, mg/L
W20D	4/18/2024	AE72480	110.0	0.429	24.2	11.0	1.90	125.00
	10/15/2024	AE75101	110.0	0.470	26.2	10.0	1.10	137.00
W73	4/18/2024	AE72475	110.0	0.433	19.1			98.00
	10/16/2024	AE75108	100.0	0.470	21.9	10.0	1.10	113.00
W74	4/18/2024	AE72481	100.0	0.398	19.1	14.0	2.00	107.00
	10/15/2024	AE75102	100.0	0.430	21.7	14.0	1.10	119.00
W75	4/18/2024	AE72482	120.0	0.428	19.3	9.8	1.90	100.00
	10/15/2024	AE75103	110.0	0.450	20.5	8.1	1.10	108.00
W76	4/18/2024	AE72483	120.0	0.442	18.7	11.0	1.90	95.10
	10/16/2024	AE75104	110.0	0.450	19.4	9.9	1.10	100.00
W77	4/18/2024	AE72484	140.0	0.418	24.8	8.8	1.90	117.00
	10/15/2024	AE75105	140.0	0.430	25.3	7.7	1.10	121.00

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

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

Lab Methods:

Well Id	Date Sampled	Lab Id	pH (Field), SU	Sulfate, total, mg/L	TDS, mg/L
W20D	4/18/2024	AE72480	7.6	170	520
	10/15/2024	AE75101	7.8	190	400
W73	4/18/2024	AE72475	8.3		410
	10/16/2024	AE75099	8.3		
		AE75108		130	460
W74	4/18/2024	AE72481	8.2	160	400
	10/15/2024	AE75102	8.2	170	390
W75	4/18/2024	AE72482	8.3	130	480
	10/15/2024	AE75103	8.1	130	380
W76	4/18/2024	AE72483	8.5	130	540
	10/16/2024	AE75104	8.3	140	370
W77	4/18/2024	AE72484	7.8	120	440
	10/15/2024	AE75105	7.8	130	370

FIGURES



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

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

MONITORING WELL LOCATION MAP

FIGURE 1

2024 CCR ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT
 PLEASANT PRAIRIE POWER PLANT
 ASH LANDFILL
 PLEASANT PRAIRIE, WISCONSIN

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.





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 APRIL 18, 2024

2024 CCR ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT
 PLEASANT PRAIRIE POWER PLANT
 ASH LANDFILL
 PLEASANT PRAIRIE, WISCONSIN

FIGURE 2

RAMBOLL AMERICAS
 ENGINEERING SOLUTIONS, INC.



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

APRIL 2024	$V = K i / n_e$		V = Groundwater Velocity		
			K = Hydraulic Conductivity		
			i = Hydraulic Gradient (unitless value)		
			n_e = Effective Porosity		
UPPERMOST AQUIFER					
Contours	668.5	to	668.0	North to Northeast Across the Landfill	Elevation Change (ft)
K =	1.04E+03 ft/yr		Geometric mean for Landfill 3 (all)		Distance Change (ft)
i =	0.005		between contours identified above		
n_e =	25 %			0.5	/ 91
V =	$\frac{1.04E+03 * 5.49E-03}{0.25}$				0.005
V =	23 feet/year				

[O: KJS 8/8/2024, 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 OCTOBER 15 AND 16, 2024

2024 CCR ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
PLEASANT PRAIRIE POWER PLANT
ASH LANDFILL
PLEASANT PRAIRIE, WISCONSIN

FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



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

OCTOBER 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)
K =	1.04E+03 ft/yr		Geometric mean for Landfill 3 (all)		Distance Change (ft)
i =	0.001		between contours identified above		
n_e =	25 %			0.5	/ 460
V =	$\frac{1.04E+03 * 1.09E-03}{0.25}$				0.001
V =	5 feet/year				

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

APPENDIX A
LABORATORY REPORTS

To: Eric Kovatch
 PSB Annex A231

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



Report Date: Tuesday, June 25, 2024

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

Sample Description:		P10RR P4 Landfill Semi Annual Sample								
Sample ID:		AE72459		Sample Collection Date/Time:		04/18/2024 09:16				
Sample Received:		04/22/2024		Sample Collector:		LAUREN ANDERSON				
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	
Field Water Level	2.02	0.05	feet		1		H2OD	4/18/24	RAMBOLL	
Field Temperature	11	0.1	Degrees t		1		TEMP	4/18/24	RAMBOLL	
Field Conductivity	2144	0	umhos		1		FCOND25	4/18/24	RAMBOLL	
Field pH	7.1	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL	
Total Filtered Alkalinity as CaCO3	630	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU	
Dissolved Sulfate	93	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU	
Dissolved Organic Carbon	5.8	0.38	ppm	1.0	2		Std Mtd 5310C	4/29/24	020	
Dissolved Boron	215	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL	
Dissolved Calcium	187800	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL	
Dissolved Magnesium	64650	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL	
Dissolved Molybdenum	11.2	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL	
Dissolved Selenium	0.288	0.16	ug/L	0.53	1	J	EPA 200.8	5/21/24	EDL	
Total Hardness as CaCO3	740	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL	

Sample Comments:

Sample Description:		W16R P4 Landfill Semi Annual Sample								
Sample ID:		AE72460		Sample Collection Date/Time:		04/17/2024 11:47				
Sample Received:		04/22/2024		Sample Collector:		LAUREN ANDERSON				
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>	
Field Water Level	4.37	0.05	feet		1		H2OD	4/17/24	RAMBOLL	
Field Temperature	11	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL	
Field Conductivity	1454	0	umhos		1		FCOND25	4/17/24	RAMBOLL	
Field pH	7.2	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL	
Total Filtered Alkalinity as CaCO3	340	20	mg/l		1		Std Mtd 2320 B	5/1/24	AEU	
Dissolved Sulfate	250	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU	
Dissolved Organic Carbon	4.1	0.19	ppm	0.50	1		Std Mtd 5310C	4/29/24	020	
Dissolved Boron	479	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL	
Dissolved Calcium	190100	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL	
Dissolved Magnesium	54600	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL	
Dissolved Molybdenum	10.0	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL	
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL	
Total Hardness as CaCO3	700	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL	

Report Date: Tuesday, June 25, 2024

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

Sample Comments:

Sample Description: **W17AR P4 Landfill Semi Annual Sample**
Sample ID: AE72461 Sample Collection Date/Time: 04/17/2024 12:28
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	11.16	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	14	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	645	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.7	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	150	20	mg/l		1		Std Mtd 2320 B	5/1/24	AEU
Dissolved Sulfate	44	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	4.8	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	635	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	71310	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	34210	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	234	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	1.56	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	320	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Sample Comments:

Sample Description: **W17BR P4 Landfill Semi Annual Sample**
Sample ID: AE72462 Sample Collection Date/Time: 04/18/2024 14:28
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	11.45	0.05	feet		1		H2OD	4/18/24	RAMBOLL
Field Temperature	10	0.1	Degrees t		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	272	0	umhos		1		FCOND25	4/18/24	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	94	20	mg/l		1		Std Mtd 2320 B	5/1/24	AEU
Dissolved Sulfate	17	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	2.2	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	646	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	11340	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	4330	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	154	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	46	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Report Date: Tuesday, June 25, 2024

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

Sample Comments:

Sample Description: **W17CR P4 Landfill Semi Annual Sample**
 Sample ID: AE72463 Sample Collection Date/Time: 04/17/2024 12:07
 Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	4.26	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	14	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	1721	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.4	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	430	20	mg/l		1		Std Mtd 2320 B	5/1/24	AEU
Dissolved Sulfate	490	0.124	mg/L	0.42	20		EPA 300.0	5/16/24	AEU
Dissolved Organic Carbon	1.8	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	557	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	134400	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	88340	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	13.6	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	0.504	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	700	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Sample Comments:

Sample Description: **W19 P4 Landfill Semi Annual Sample**
 Sample ID: AE72464 Sample Collection Date/Time: 04/17/2024 13:25
 Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	4.50	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	13	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	1637	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.3	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	390	20	mg/l		1		Std Mtd 2320 B	5/1/24	AEU
Dissolved Sulfate	630	0.124	mg/L	0.42	20		EPA 300.0	5/16/24	AEU
Dissolved Organic Carbon	2.7	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	803	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	234100	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	92610	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	4.2	2.7	ug/L	9.2	1	J	EPA 200.7	5/21/24	EDL
Dissolved Selenium	0.173	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	970	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Report Date: Tuesday, June 25, 2024

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

Sample Comments:

Sample Description: **W20A P4 Landfill Semi Annual Sample**
Sample ID: AE72465 Sample Collection Date/Time: 04/17/2024 11:01
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	5.36	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	14	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	857	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	260	20	mg/l		1		Std Mtd 2320 B	5/1/24	AEU
Dissolved Sulfate	110	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	2.7	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	343	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	66520	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	52510	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	16.4	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	380	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Sample Comments:

Sample Description: **W20B P4 Landfill Semi Annual Sample**
Sample ID: AE72466 Sample Collection Date/Time: 04/18/2024 09:59
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	5.84	0.05	feet		1		H2OD	4/18/24	RAMBOLL
Field Temperature	11	0.1	Degrees t		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	559	0	umhos		1		FCOND25	4/18/24	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	220	20	mg/l		1		Std Mtd 2320 B	5/1/24	AEU
Dissolved Sulfate	75	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	1.3	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	309	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	43580	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	31480	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	30.9	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	240	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Report Date: Tuesday, June 25, 2024

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

Sample Comments:

Sample Description: **W20C P4 Landfill Semi Annual Sample**
 Sample ID: AE72467 Sample Collection Date/Time: 04/17/2024 11:14
 Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	4.64	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	12	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	2824	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.1	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	440	20	mg/l		1		Std Mtd 2320 B	5/1/24	AEU
Dissolved Sulfate	1300	0.31	mg/L	1.05	50		EPA 300.0	5/16/24	AEU
Dissolved Organic Carbon	2.2	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	217	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	360700	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	184100	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	Less Than	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	0.196	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	1700	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Sample Comments:

Sample Description: **W28 P4 Landfill Semi Annual Sample**
 Sample ID: AE72468 Sample Collection Date/Time: 04/17/2024 15:00
 Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	3.54	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	12	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	806	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.6	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	400	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU
Dissolved Sulfate	68	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	2.4	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	192	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	76190	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	56290	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	Less Than	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	0.189	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	420	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Report Date: Tuesday, June 25, 2024

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

Sample Comments:

Sample Description: **W31A P4 Landfill Semi Annual Sample**
 Sample ID: AE72469 Sample Collection Date/Time: 04/17/2024 10:05
 Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	1.54	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	16	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	1051	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.5	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	280	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU
Dissolved Sulfate	140	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	1.4	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	91.3	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	102200	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	59850	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	4.86	2.7	ug/L	9.2	1	J	EPA 200.7	5/21/24	EDL
Dissolved Selenium	0.355	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	500	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Sample Comments:

Sample Description: **W31B P4 Landfill Semi Annual Sample**
 Sample ID: AE72470 Sample Collection Date/Time: 04/18/2024 13:52
 Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	1.29	0.05	feet		1		H2OD	4/18/24	RAMBOLL
Field Temperature	10	0.1	Degrees t		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	917	0	umhos		1		FCOND25	4/18/24	RAMBOLL
Field pH	7.6	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	300	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU
Dissolved Sulfate	130	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	1.4	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	86.6	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	100700	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	59130	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	4.33	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	500	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Report Date: Tuesday, June 25, 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: AE72471 Sample Collection Date/Time: 04/17/2024 10:15
 Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	3.23	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	15	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	753	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	320	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU
Dissolved Sulfate	110	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	1.4	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	99.1	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	77870	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	51270	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	12.8	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	410	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Sample Comments:

Sample Description: **W35A P4 Landfill Semi Annual Sample**
 Sample ID: AE72472 Sample Collection Date/Time: 04/17/2024 14:14
 Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	5.07	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	15	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	325	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	160	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU
Dissolved Sulfate	8.0	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	2.3	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	583	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	73430	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	38670	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	57.6	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	1.31	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	340	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Report Date: Tuesday, June 25, 2024

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

Sample Comments:

Sample Description: **W35B P4 Landfill Semi Annual Sample**
Sample ID: AE72473 Sample Collection Date/Time: 04/17/2024 14:38
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	2.21	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	14	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	2075	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.3	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	440	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU
Dissolved Sulfate	51	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	2.1	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	90.9	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	153100	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	69920	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	3.76	2.7	ug/L	9.2	1	J	EPA 200.7	5/21/24	EDL
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	670	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Sample Comments:

Sample Description: **W35C P4 Landfill Semi Annual Sample**
Sample ID: AE72474 Sample Collection Date/Time: 04/17/2024 14:46
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	2.61	0.05	feet		1		H2OD	4/17/24	RAMBOLL
Field Temperature	12	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	2272	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.1	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	540	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU
Dissolved Sulfate	39	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	2.2	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	69.3	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	158300	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	66350	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	Less Than	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	670	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Report Date: Tuesday, June 25, 2024

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

Sample Comments:

Sample Description: **W73 P4 Landfill Semi Annual Sample**
 Sample ID: AE72475 Sample Collection Date/Time: 04/18/2024 16:03
 Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	21.03	0.05	feet		1		H2OD	4/18/24	RAMBOLL
Field Temperature	11	0.1	Degrees t		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	490	0	umhos		1		FCOND25	4/18/24	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	110	20	mg/l		1		Std Mtd 2320 B	4/26/24	AEU
Dissolved Sulfate	120	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	2.0	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	437	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	18370	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	11800	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	106	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	94	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL
Total Alkalinity as CaCO3	110	20	mg/L		1		SM 2320 B-1997	5/2/24	AEU
Total Dissolved Solids	410	20	mg/L		1		Std Mtd 2540 C	4/25/24	SAA
Total Boron	433	2.8	ug/L	9.4	1		EPA 200.7	6/16/24	EDL
Total Calcium	19130	12.4	ug/L	170.3	1		EPA 200.7	6/16/24	EDL
Total Magnesium	12170	17.5	ug/L	58.4	1		EPA 200.7	6/16/24	EDL
Total Molybdenum	110	2.7	ug/L	9.2	1		EPA 200.7	6/25/24	EDL
Total Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	6/25/24	EDL

Sample Comments:

Sample Description: **QAQC1 P4 Landfill Semi Annual Sample**
 Sample ID: AE72476 Sample Collection Date/Time: 04/17/2024 13:30
 Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Filtered Alkalinity as CaCO3	410	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU
Dissolved Sulfate	630	0.124	mg/L	0.42	20		EPA 300.0	5/16/24	AEU
Dissolved Organic Carbon	2.6	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	818	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	241600	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	95740	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	105	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL

Report Date: Tuesday, June 25, 2024

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

Sample Description: **QAQC1 P4 Landfill Semi Annual Sample**
Sample ID: AE72476 Sample Collection Date/Time: 04/17/2024 13:30
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Dissolved Selenium	0.132	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	1000	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Sample Comments:

Sample Description: **QAQC2 P4 Landfill Semi Annual Sample**
Sample ID: AE72477 Sample Collection Date/Time: 04/17/2024 10:04
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Filtered Alkalinity as CaCO3	220	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU
Dissolved Sulfate	71	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	1.3	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	306	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	44430	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	31940	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	Less Than	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	240	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Sample Comments:

Sample Description: **EB1 P4 Landfill Semi Annual Sample**
Sample ID: AE72478 Sample Collection Date/Time: 04/17/2024 15:15
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Temperature	16	0.1	Degrees t		1		TEMP	4/17/24	RAMBOLL
Field Conductivity	8.08	0	umhos		1		FCOND25	4/17/24	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	4/17/24	RAMBOLL
Total Filtered Alkalinity as CaCO3	Less Than	20	mg/l		1		Std Mtd 2320 B	5/2/24	AEU
Dissolved Sulfate	Less Than	0.031	mg/L	0.105	5		EPA 300.0	5/1/24	AEU
Dissolved Organic Carbon	Less Than	0.19	ppm	0.50	1		Std Mtd 5310C	4/30/24	020
Dissolved Boron	Less Than	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Dissolved Calcium	Less Than	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Dissolved Magnesium	Less Than	17.5	ug/L	58.4	1		EPA 200.7	5/16/24	EDL
Dissolved Molybdenum	Less Than	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL

Report Date: Tuesday, June 25, 2024

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

Sample Description: **EB1 P4 Landfill Semi Annual Sample**
Sample ID: AE72478 Sample Collection Date/Time: 04/17/2024 15:15
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Dissolved Selenium	Less Than	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	Less Than	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Sample Comments:

Sample Description: **EB2 P4 Landfill Semi Annual Sample**
Sample ID: AE72479 Sample Collection Date/Time: 04/18/2024 16:15
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Temperature	14	0.1	Degrees C		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	3.95	0	umhos		1		FCOND25	4/18/24	RAMBOLL
Field pH	8.0	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL
Total Boron	4.02	2.8	ug/L	9.4	1	J	EPA 200.7	5/16/24	EDL
Total Calcium	122	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Total Hardness as CaCO3	Less Than	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL
Total Fluoride	Less Than	0.06	mg/L	0.195	5		EPA 300.0	5/6/24	AEU
Total Chloride	3.4	0.0155	mg/L	0.05	5		EPA 300.0	5/6/24	AEU
Total Sulfate	4.0	0.031	mg/L	0.105	5		EPA 300.0	5/6/24	AEU
Total Alkalinity as CaCO3	Less Than	20	mg/L		1		SM 2320 B-1997	5/2/24	AEU
Total Dissolved Solids	160	20	mg/L		1		Std Mtd 2540 C	4/24/24	SAA
Dissolved Organic Carbon	0.26	0.19	ppm	0.56	1	J	Std Mtd 5310C	4/30/24	020

Sample Comments:

Sample Description: **W20D P4 Landfill Semi Annual Sample**
Sample ID: AE72480 Sample Collection Date/Time: 04/18/2024 10:37
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	17.99	0.05	feet		1		H2OD	4/18/24	RAMBOLL
Field Temperature	11	0.1	Degrees C		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	574	0	umhos		1		FCOND25	4/18/24	RAMBOLL
Field pH	7.6	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL
Total Boron	429	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Total Calcium	24230	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Total Hardness as CaCO3	125	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL

Report Date: Tuesday, June 25, 2024

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

Sample Description: **W20D P4 Landfill Semi Annual Sample**
Sample ID: AE72480 Sample Collection Date/Time: 04/18/2024 10:37
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Fluoride	1.9	0.06	mg/L	0.195	5		EPA 300.0	5/6/24	AEU
Total Chloride	11	0.0155	mg/L	0.05	5		EPA 300.0	5/6/24	AEU
Total Sulfate	170	0.031	mg/L	0.105	5		EPA 300.0	5/6/24	AEU
Total Alkalinity as CaCO3	110	20	mg/L		1		SM 2320 B-1997	5/2/24	AEU
Total Dissolved Solids	520	20	mg/L		1		Std Mtd 2540 C	4/24/24	SAA

Sample Comments:

Sample Description: **W74 P4 Landfill Semi Annual Sample**
Sample ID: AE72481 Sample Collection Date/Time: 04/18/2024 15:14
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	18.93	0.05	feet		1		H2OD	4/18/24	RAMBOLL
Field Temperature	11	0.1	Degrees t		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	545	0	umhos		1		FCOND25	4/18/24	RAMBOLL
Field pH	8.2	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL
Total Boron	398	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Total Calcium	19090	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Total Hardness as CaCO3	107	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL
Total Fluoride	2.0	0.06	mg/L	0.195	5		EPA 300.0	5/6/24	AEU
Total Chloride	14	0.0155	mg/L	0.05	5		EPA 300.0	5/6/24	AEU
Total Sulfate	160	0.031	mg/L	0.105	5		EPA 300.0	5/6/24	AEU
Total Alkalinity as CaCO3	100	20	mg/L		1		SM 2320 B-1997	5/2/24	AEU
Total Dissolved Solids	400	20	mg/L		1		Std Mtd 2540 C	4/24/24	SAA

Sample Comments:

Sample Description: **W75 P4 Landfill Semi Annual Sample**
Sample ID: AE72482 Sample Collection Date/Time: 04/18/2024 11:37
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	20.97	0.05	feet		1		H2OD	4/18/24	RAMBOLL
Field Temperature	10	0.1	Degrees t		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	500	0	umhos		1		FCOND25	4/18/24	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL

Report Date: Tuesday, June 25, 2024

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

Sample Description: **W75 P4 Landfill Semi Annual Sample**
Sample ID: AE72482 Sample Collection Date/Time: 04/18/2024 11:37
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	428	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Total Calcium	19310	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Total Hardness as CaCO3	100	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL
Total Fluoride	1.9	0.06	mg/L	0.195	5		EPA 300.0	5/6/24	AEU
Total Chloride	9.8	0.0155	mg/L	0.05	5		EPA 300.0	5/6/24	AEU
Total Sulfate	130	0.031	mg/L	0.105	5		EPA 300.0	5/6/24	AEU
Total Alkalinity as CaCO3	120	20	mg/L		1		SM 2320 B-1997	5/2/24	AEU
Total Dissolved Solids	480	20	mg/L		1		Std Mtd 2540 C	4/24/24	SAA

Sample Comments:

Sample Description: **W76 P4 Landfill Semi Annual Sample**
Sample ID: AE72483 Sample Collection Date/Time: 04/18/2024 12:26
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	22.13	0.05	feet		1		H2OD	4/18/24	RAMBOLL
Field Temperature	10	0.1	Degrees t		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	503	0	umhos		1		FCOND25	4/18/24	RAMBOLL
Field pH	8.5	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL
Total Boron	442	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Total Calcium	18700	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Total Hardness as CaCO3	95.1	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL
Total Fluoride	1.9	0.06	mg/L	0.195	5		EPA 300.0	5/6/24	AEU
Total Chloride	11	0.0155	mg/L	0.05	5		EPA 300.0	5/6/24	AEU
Total Sulfate	130	0.031	mg/L	0.105	5		EPA 300.0	5/6/24	AEU
Total Alkalinity as CaCO3	120	20	mg/L		1		SM 2320 B-1997	5/2/24	AEU
Total Dissolved Solids	540	20	mg/L		1		Std Mtd 2540 C	4/24/24	SAA

Sample Comments:

Sample Description: **W77 P4 Landfill Semi Annual Sample**
Sample ID: AE72484 Sample Collection Date/Time: 04/18/2024 13:10
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Water Level	16.86	0.05	feet		1		H2OD	4/18/24	RAMBOLL

Report Date: Tuesday, June 25, 2024

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

Sample Description: **W77 P4 Landfill Semi Annual Sample**
Sample ID: AE72484 Sample Collection Date/Time: 04/18/2024 13:10
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Temperature	10	0.1	Degrees t		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	536	0	umhos		1		FCOND25	4/18/24	RAMBOLL
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL
Total Boron	418	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Total Calcium	24780	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Total Hardness as CaCO3	117	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL
Total Fluoride	1.9	0.06	mg/L	0.195	5		EPA 300.0	5/6/24	AEU
Total Chloride	8.8	0.0155	mg/L	0.05	5		EPA 300.0	5/6/24	AEU
Total Sulfate	120	0.031	mg/L	0.105	5		EPA 300.0	5/6/24	AEU
Total Alkalinity as CaCO3	140	20	mg/L		1		SM 2320 B-1997	5/2/24	AEU
Total Dissolved Solids	440	20	mg/L		1		Std Mtd 2540 C	4/24/24	SAA

Sample Comments:

Sample Description: **QAQC3 P4 Landfill Semi Annual Sample**
Sample ID: AE72485 Sample Collection Date/Time: 04/18/2024 13:15
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Total Boron	421	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Total Calcium	24990	12.4	ug/L	170.3	1		EPA 200.7	5/16/24	EDL
Total Hardness as CaCO3	118	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL
Total Fluoride	1.9	0.06	mg/L	0.195	5		EPA 300.0	5/6/24	AEU
Total Chloride	8.8	0.0155	mg/L	0.05	5		EPA 300.0	5/6/24	AEU
Total Sulfate	120	0.031	mg/L	0.105	5		EPA 300.0	5/6/24	AEU
Total Alkalinity as CaCO3	140	20	mg/L		1		SM 2320 B-1997	5/2/24	AEU
Total Dissolved Solids	740	20	mg/L		1		Std Mtd 2540 C	4/24/24	SAA

Sample Comments:

Sample Description: **L-Tank P4 Landfill Sample**
Sample ID: AE72486 Sample Collection Date/Time: 04/18/2024 15:00
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field Temperature	12	0.1	Degrees t		1		TEMP	4/18/24	RAMBOLL
Field Conductivity	723	0	umhos		1		FCOND25	4/18/24	RAMBOLL

Report Date: Tuesday, June 25, 2024

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

Sample Description: **L-Tank P4 Landfill Sample**
Sample ID: AE72486 Sample Collection Date/Time: 04/18/2024 15:00
Sample Received: 04/22/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Field pH	8.2	0.1	Units	0.1	1		FIELDPH	4/18/24	RAMBOLL
COD	Less Than	14.7	mg/L	50.0	1		EPA 410.4	5/2/24	020
Total Suspended Solids	2	1	mg/L	3	1	J	Std Mtd 2540 D	4/24/24	SAA
Total Alkalinity as CaCO3	160	20	mg/L		1		SM 2320 B-1997	5/2/24	AEU
Total Chloride	27	0.295	mg/L	0.99	5		EPA 300.0	5/14/24	AEU
Total Sulfate	170	1.2	mg/L	3.9	5		EPA 300.0	5/14/24	AEU
Total Boron	642	2.8	ug/L	9.4	1		EPA 200.7	5/16/24	EDL
Total Cadmium	0.9	0.8	ug/L	2.4	1	J	EPA 200.7	5/16/24	EDL
Total Iron	123	1.4	ug/L	4.6	1		EPA 200.7	5/16/24	EDL
Total Lead	Less Than	9.7	ug/L	32.2	1		EPA 200.7	5/16/24	EDL
Total Manganese	4.3	0.2	ug/L	0.7	1		EPA 200.7	5/16/24	EDL
Total Molybdenum	67.3	2.7	ug/L	9.2	1		EPA 200.7	5/21/24	EDL
Total Selenium	3.33	0.16	ug/L	0.53	1		EPA 200.8	5/21/24	EDL
Total Hardness as CaCO3	312	1	mg/L		1		Std Mtd 2340B	5/16/24	EDL
Total Mercury	2.28	0.28	ng/L	0.93	1		EPA 245.7	5/2/24	CMW
SVOCs	Completed				1		EPA 8270C	4/25/24	020

Sample Comments:

Sample Description: **L-Tank P4 Landfill Sample BOD only**
Sample ID: AE72487 Sample Collection Date/Time: 04/23/2024 10:15
Sample Received: 04/23/2024 Sample Collector: LAUREN ANDERSON

<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Result Flag</u>	<u>Analysis Method</u>	<u>Analysis Date</u>	<u>Analyst</u>
Biochemical Oxygen Demand	Less Than	2	mg/L	2	1	B3, B4	Std Mtd 5210B	4/25/24	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: 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 C		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