Prepared for We Energies

Date
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Project No. **1940102327**

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLEASANT PRAIRIE POWER PLANT ASH LANDFILL



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ACRONYMS AND ABBREVIATIONS

§ Section

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

ASD Alternate Source Demonstration CCR Coal Combustion Residuals

GWPS groundwater protection standard

NA not applicable

P4 Pleasant Prairie Power Plant

Ramboll Ramboll Americas Engineering Solutions, Inc.

SAP Sampling and Analysis Plan
SSI Statistically Significant Increase

TBD To be Determined

EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.90(e) for the Ash Landfill located at the Pleasant Prairie Power Plant (P4) near Pleasant Prairie, Wisconsin.

Groundwater is being monitored at the P4 Ash Landfill in accordance with the Detection Monitoring Program requirements specified in 40 C.F.R. § 257.94.

No changes were made to the monitoring system in 2023 (no wells were installed or decommissioned).

In 2023, groundwater analytical data was evaluated for statistically significant increases (SSIs) over background concentrations of 40 CFR § 257 Appendix III constituents in groundwater monitoring wells at P4 Ash Landfill. No SSIs were determined in 2023.

The P4 Ash Landfill remains in the Detection Monitoring Program in accordance with 40 C.F.R. § 257.94.

1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of We Energies, to provide the information required by 40 C.F.R. § 257.90(e) for the P4 Ash Landfill located in Pleasant Prairie, Wisconsin.

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

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

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

This report provides the required information for the P4 Ash Landfill for calendar year 2023.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

No changes have occurred to the monitoring program status in calendar year 2023 and the P4 Ash Landfill remains in the Detection Monitoring Program in accordance with 40 C.F.R. § 257.94.

3. KEY ACTIONS COMPLETED IN 2023

The Detection Monitoring Program is summarized in **Table A** on the following page. The groundwater monitoring system, including the CCR unit and all background (upgradient) and downgradient monitoring wells, is presented in **Figure 1**. No changes were made to the monitoring system in 2023. In general, one groundwater sample was collected from each background and downgradient well during each monitoring event. All samples were collected and analyzed in accordance with the *Sampling and Analysis Plan* (SAP), *Pleasant Prairie Power Plant Ash Landfill* (Natural Resource Technology, Inc., 2015). Potentiometric surface maps for the fourth quarter of 2022 and both monitoring events in 2023 are included in **Figures 2 through 4**. Water level data, collected from background and downgradient monitoring wells, are included in **Table 1**. All monitoring data and analytical results obtained under 40 C.F.R. §§ 257.90 through 257.98 (as applicable) in the fourth quarter of 2022 and both monitoring events in 2023 are presented in **Table 2**. Laboratory reports for both 2023 monitoring events are included in **Appendix A**¹.

Analytical data were evaluated in accordance with the *Statistical Analysis Plan, Pleasant Prairie Power Plant Ash Landfill* (Natural Resource Technology, Inc., an OBG Company, 2017) to determine any SSIs of 40 CFR § 257 Appendix III parameters relative to background concentrations. Statistical background values are provided in **Table 3**. A flow chart showing the statistical methodology for determination of background values is included as **Appendix B**.

Statistical evaluation, including SSI determinations, of analytical data from the Detection Monitoring Program for the October 5, 2022 (Detection Monitoring Round 11) and April 11, 2023 (Detection Monitoring Round 12) sampling events were completed in 2023 and within 90 days of receipt of the analytical data. No SSIs over background concentrations for 40 CFR § 257 Appendix III constituents were determined during Detection Monitoring Rounds 11 and 12. Additional information regarding SSI parameters and well locations is provided in **Table A**.

¹ Laboratory reports for the fourth quarter of 2022 monitoring event were provided in the 2022 annual report.

Table A. 2022-2023 Detection Monitoring Program Summary

Detection Round	Sampling Date	Analytical Data Receipt Date	Parameters Collected	SSI Wells (Parameters)	SSI (s) Determination Date	ASD Completion Date
11	October 5, 2022	December 5, 2022	Appendix III	None	March 5, 2023	NA
12	April 11, 2023	May 3, 2023	Appendix III	None	August 1, 2023	NA
13	October 26 and 30, 2023	December 1, 2023	Appendix III	TBD	TBD Before February 29, 2024	TBD

Notes: NA

NA: not applicable

TBD: to be determined

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the Groundwater Monitoring Program during 2023. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

- Continuation of the Detection Monitoring Program with semi-annual sampling scheduled for the second and fourth quarters of 2024.
- Complete evaluation of analytical data from the downgradient wells using background data to determine whether an SSI of 40 CFR § 257 Appendix III parameters detected at concentrations greater than background concentrations has occurred.
- If an SSI is identified, potential alternate sources (*i.e.*, a source other than the P4 Ash Landfill caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
 - If an alternate source is identified to be the cause of the SSI, a written demonstration will be completed within 90 days of SSI determination and included in the 2024 Annual Groundwater Monitoring and Corrective Action Report.
 - If an alternate source(s) is not identified to be the cause of the SSI, the applicable requirements of 40 C.F.R. §§ 257.94 through 257.98 as may apply in 2024 (e.g., Assessment Monitoring) will be met, including associated recordkeeping/notifications required by 40 C.F.R. §§ 257.105 through 257.108.

6. REFERENCES

Natural Resource Technology, Inc., 2015, Sampling and Analysis Plan-Revision 1, Pleasant Prairie Power Plant Ash Landfill, Pleasant Prairie, Wisconsin, December 8, 2015.

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

TABLES

TABLE 1 GROUNDWATER ELEVATIONS

2023 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)
				10/05/2022	666.09
W20D	Background (Upgradient)	42°33'51.3592"	-87°54'15.0776"	4/11/2023	672.57
	(0) 9. 20. 20. 3			10/26/2023	666.60
				10/05/2022	666.86
W77	Background (Upgradient)	42°33'45.2513"	-87°53'54.2383"	4/11/2023	671.20
	(0) 0 0 0			10/30/2023	666.99
	Compliance (Downgradient)	42°33'57.0560"	-87°53'57.3214"	10/05/2022	667.59
W73				4/11/2023	670.14
				10/30/2023	666.12
	Compliance (Downgradient)	42°33'56.9099"	-87°54'14.3343"	10/05/2022	663.50
W74				4/11/2023	668.92
				10/30/2023	663.83
				10/05/2022	664.58
W75	Compliance (Downgradient)	42°33'56.8116"	-87°54'08.8120"	4/11/2023	669.93
				10/30/2023	665.32
				10/05/2022	665.38
W76	Compliance (Downgradient)	42°33'56.4738"	-87°54'01.8036"	4/11/2023	669.88
	,			10/30/2023	665.62

Notes:

ft = foot/feet

NAVD88 = North American Vertical Datum of 1988



Date Range: 10/01/2022 to 10/10/2022

Well Id	Date Sampled	Lab Id	Boron, total, mg/L	Calcium, total, mg/L	Chloride, total, mg/L	Fluoride, total, mg/L	pH (Field), SU	Sulfate, total, mg/L
W20D	10/5/2022	AE62999	0.403	23.7	11.9	1.10	7.1	178
W73	10/5/2022	AE62974 AE63007	0.437	21.2	11.6	1.10	8.3	131
W74	10/5/2022	AE63003	0.395	19.4	15.5	1.10	7.9	172
W75	10/5/2022	AE63004	0.404	18.2	9.6	1.10	8.1	133
W76	10/5/2022	AE63005	0.428	18.8	11.0	1.00	8.2	144
W77	10/5/2022	AE63008	0.414	23.4	8.8	1.20	7.6	132

Date Range: 10/01/2022 to 10/10/2022

Well Id	Date Sampled	Lab Id	TDS, mg/L
W20D	10/5/2022	AE62999	388
W73	10/5/2022	AE63007	298
W74	10/5/2022	AE63003	332
W75	10/5/2022	AE63004	302
W76	10/5/2022	AE63005	288
W77	10/5/2022	AE63008	328

Date Range: 04/10/2023 to 04/11/2023

Well Id	Date Sampled	Lab Id	Boron, total, mg/L	Calcium, total, mg/L	Chloride, total, mg/L	Fluoride, total, mg/L	pH (Field), SU	Sulfate, total, mg/L
W20D	4/11/2023	AE65951	0.460	24.0	11.0	1.00	7.8	170
W73	4/11/2023	AE65960 AE65978	0.440	18.0	12.0	1.00	8.3	130
W74	4/11/2023	AE65954	0.410	19.0	14.0	1.00	7.5	150
W75	4/11/2023	AE65955	0.430	19.0	8.9	1.00	8.1	120
W76	4/11/2023	AE65958	0.450	18.0	11.0	0.90	8.2	130
W77	4/11/2023	AE65956	0.420	24.0	8.9	1.10	7.7	130

Date Range: 04/10/2023 to 04/11/2023

Well Id	Date Sampled	Lab Id	TDS, mg/L
W20D	4/11/2023	AE65951	380
W73	4/11/2023	AE65960	340
W74	4/11/2023	AE65954	370
W75	4/11/2023	AE65955	340
W76	4/11/2023	AE65958	350
W77	4/11/2023	AE65956	360

Date Range: 10/25/2023 to 11/01/2023

Well Id	Date Sampled	Lab Id	Boron, total, mg/L	Calcium, total, mg/L	Chloride, total, mg/L	Fluoride, total, mg/L	pH (Field), SU	Sulfate, total, mg/L
W20D	10/26/2023	AE69710	0.451	24.2	11.6	1.10	7.5	182
W73	10/30/2023	AE69690	0.447	19.0	11.2	1.10	8.2	132
W74	10/30/2023	AE69691	0.423	19.4	13.2	1.10	8.2	162
W75	10/30/2023	AE69686	0.434	19.4	8.7	1.20	7.4	133
W76	10/30/2023	AE69688	0.450	18.9	10.6	1.10	8.3	139
W77	10/30/2023	AE69689	0.428	24.5	8.1	1.20	7.8	135

Date Range: 10/25/2023 to 11/01/2023

Well Id	Date Sampled	Lab Id	TDS, mg/L
W20D	10/26/2023	AE69710	406
W73	10/30/2023	AE69690	338
W74	10/30/2023	AE69691	372
W75	10/30/2023	AE69686	340
W76	10/30/2023	AE69688	344
W77	10/30/2023	AE69689	366

TABLE 3

STATISTICAL BACKGROUND VALUES

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLEASANT PRAIRIE POWER PLANT ASH LANDFILL

PLEASANT PRAIRIE, WI

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

Notes:

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

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

LPL = Lower Prediction Limit (applicable for pH only)

mg/L = milligrams per liter

SU = Standard Units

UPL = Upper Prediction Limit

FIGURES



UNIT BOUNDARY

CCR DOWNGRADIENT
MONITORING WELL LOCATION

CCR UPGRADIENT
MONITORING WELL LOCATION

MONITORING WELL LOCATION MAP

2023 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
PLEASANT PRAIRIE POWER PLANT
ASH LANDFILL
PLEASANT PRAIRIE, WISCONSIN

FIGURE 1

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL



UNIT BOUNDARY

BEDROCK UNIT (UPPERMOST AQUIFER) CCR MONITORING WELL LOCATION

GROUNDWATER ELEVATION CONTOUR (1-FT INTERVAL, NAVD 88)

INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

 $Vgw = ESTIMATED\ FT/YR\ GROUNDWATER\ FLOW\ VELOCITY\ IMAGERY\ DATE = 6/23/2022$

0 150 300 Feet

POTENTIOMETRIC SURFACE MAP OCTOBER 5, 2022

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLEASANT PRAIRIE POWER PLANT ASH LANDFILL

PLEASANT PRAIRIE, WISCONSIN

FIGURE 2

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.



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

OCTOBER 2022	V = K	i / n _e	V = Groundwater Velocity			
			K = Hydraulic Conductivity			
UPPERMOST AQUIF	ER		i = Hydraulic Gradient (unitless value) n_e = Effective Porosity			
Contours	666.0 to	665.0	North to Northeast Across the Landfill	Elevation	Distance	
K =	1.04E+03 ft/yr	Geometric mean	n	Change	Change	
i =	0.006	between contou	rs identified above	(ft)	(ft)	
n _e =	25 %			1	/ 180	0.006
V =	1.04E+03 *	5.56E-03	_			
	0.25					
V =	23 feet/ye	ear				

[O: KLT 1/31/2023, C:NMD 1/31/2023]



UNIT BOUNDARY

BEDROCK UNIT (UPPERMOST AQUIFER) CCR MONITORING WELL LOCATION

GROUNDWATER ELEVATION CONTOUR (1-FT INTERVAL, NAVD 88)

INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

 $Vgw = ESTIMATED\ FT/YR\ GROUNDWATER\ FLOW\ VELOCITY\ IMAGERY\ DATE = 6/23/2022$

0 150 300 Feet POTENTIOMETRIC SURFACE MAP APRIL 11, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLEASANT PRAIRIE POWER PLANT ASH LANDFILL

PLEASANT PRAIRIE, WISCONSIN

FIGURE 3

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.

RAMBOLL

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

APRIL 2023	V = K	i / n _e	V = Groundwater Velocity			
			K = Hydraulic Conductivity			
UPPERMOST AQUI	FER		$ i = \mbox{Hydraulic Gradient (unitless value)} \\ n_e = \mbox{Effective Porosity} $			
Contours	672.5 to	672.0	North to Northeast Across the Landfill	Elevation	Distance	
K =	1.04E+03 ft/yr	Geometric mean	n for Landfill 3 (all)	Change	Change	
i =	0.004	between contou	rs identified above	(ft)	(ft)	
n _e =	25 %			0.5	/ 137	0.004
V =	1.04E+03 *	3.65E-03	_			
	0.25					
V =	15 feet/ye	ear				

[O: KJS 1/29/2024, C:EJT 1/29/2024]





UNIT BOUNDARY

BEDROCK UNIT (UPPERMOST AQUIFER) CCR MONITORING WELL LOCATION

GROUNDWATER ELEVATION CONTOUR (1-FT INTERVAL, NAVD 88)

INFERRED GROUNDWATER ELEVATION CONTOUR

GROUNDWATER FLOW DIRECTION

Vgw = ESTIMATED FT/YR GROUNDWATER FLOW VELOCITY IMAGERY DATE = 6/23/2022

0 150 300 Fee

POTENTIOMETRIC SURFACE MAP OCTOBER 26 AND 30, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT PLEASANT PRAIRIE POWER PLANT ASH LANDFILL

PLEASANT PRAIRIE, WISCONSIN

FIGURE 4

RAMBOLL AMERICAS ENGINEERING SOLUTIONS, INC.



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

OCTOBER 2023	V = K	i / n _e	V = Groundwater Velocity			
			K = Hydraulic Conductivity			
UPPERMOST AQUI	IFER		i = Hydraulic Gradient (unitless value) n _e = Effective Porosity			
Contours	665.5 to	665.0	North to Northeast Across the Landfill	Elevation	Distance	
K =	1.04E+03 ft/yr	Geometric mea	n for Landfill 3 (all)	Change	Change	
i =	0.005	between contou	urs identified above	(ft)	(ft)	
n _e =	25 %			0.5	/ 106	0.005
V =	1.04E+03 *	4.72E-03	_			
_	0.25					
V =	20 feet/ye	ear				

[O: KJS 1/29/2024, C:EJT 1/29/2024]



APPENDICES

APPENDIX A LABORATORY REPORTS

To: Eric Kovatch

PSB Annex A231

From: WEC Business Services

Laboratory Services PSBA-A070 WDNR Cert # 241329000

Report Date: Wednesday, January 24, 2024

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



Sample Description: Sample ID: Sample Received:	W-20D AE65951 04/12/2022	P4 Landfill	Samp	mple ble Collection ble Collector:	Date/Time:	04/11/2023 RAMBOLL		09:09		
<u>Parameter</u>		Result	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	Analyst
Field Water Level		17.21	0.05	feet		1		H2OD	4/11/23	RAMBOL
Field Temperature		12.0	0.1	Degrees	ſ	1		TEMP	4/11/23	RAMBOL
Field Conductivity		620	0	umhos		1		FCOND25	4/11/23	RAMBOL
Field pH		7.8	0.1	Units	0.1	1		FIELDPH	4/11/23	RAMBOL
Total Fluoride		1.0	0.6	mg/L	2.0	20	J	EPA 300.0	4/13/23	057
Total Chloride		11	1.0	mg/L	3.4	20		EPA 300.0	4/13/23	057
Total Sulfate		170	2.0	mg/L	6.8	20		EPA 300.0	4/13/23	057
Total Boron		460	10	ug/L	50	1		EPA 200.7	4/25/23	057
Total Calcium		24000	40	ug/L	100	1		EPA 200.7	4/24/23	057
Total Alkalinity as CaCO3		110	2	mg/L	6	1		SM 2320 B-1997	4/21/23	057
Total Copper		Less Than	4	ug/L	10	1		EPA 200.7	4/24/23	057
Total Hardness as CaCO3		130	1	mg/L		1		Std Mtd 2340B	4/24/23	057
Total Magnesium		16000	40	ug/L	100	1		EPA 200.7	4/24/23	057
Total Manganese		30	4	ug/L	10	1		EPA 200.7	4/24/23	057
Nitrate-Nitrite as N		Less Than	0.40	mg/L	0.72	20		EPA 300.0	4/24/23	057
Total Silver		Less Than	20	ug/L	70	1		EPA 200.7	4/17/23	057
Total Zinc		Less Than	20	ug/L	70	1		EPA 200.7	4/24/23	057
Total Dissolved Solids		380	10	mg/L	10	1	H1	Std Mtd 2540 C	4/20/23	057

Sample Description:	W-20B	P4 Landfill CC	R Well Samj	ple								
Sample ID:	AE65952		Sample Collection Date/Time:			04/11	/2023	09:48				
Sample Received:	04/12/2023	3	Sample	Collector:		RAM	RAMBOLL					
						Result	Analysis	Analysis				
<u>Parameter</u>		Result	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	Flag	Method	<u>Date</u>	<u>Analyst</u>		
Field Water Level		5.89	0.05	feet		1		H2OD	4/11/23	RAMBOLL		
Field Temperature		11.3	0.1	Degrees (1		TEMP	4/11/23	RAMBOLL		
Field Conductivity		592	0	umhos		1		FCOND25	4/11/23	RAMBOLL		
Field pH		7.8	0.1	Units	0.1	1		FIELDPH	4/11/23	RAMBOLL		
Total Dissolved Solids		390	10	mg/L	10	1	H1	Std Mtd 2540 C	4/20/23	AEU		
Total Fluoride		1.0	0.6	mg/L	2.0	20	J	EPA 300.0	4/22/23	AEU		
Total Chloride		11	1	mg/L	3.4	20		EPA 300.0	4/22/23	AEU		
Total Sulfate		68	2.0	mg/L	6.8	20		EPA 300.0	4/22/23	AEU		
Total Boron		320	10	ug/L	50	1		EPA 200.7	4/25/23	AEU		
Total Calcium		48000	400	ug/L	1300	10		EPA 200.7	4/25/23	AEU		

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

Sample Comments:

Sample Description:	W-31B							10.25		
Sample ID:	AE65953		Sample Collection Date/Time:				1/2023	10:37		
Sample Received:	04/12/2023	3	Sample Collector:			RAN	MBOLL			
							Result	Analysis	Analysis	
<u>Parameter</u>		Result	LOD	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Flag</u>	Method	Date	Analyst
Field Water Level		1.77	0.05	feet		1		H2OD	4/11/23	RAMBOLL
Field Temperature		11.3	0.1	Degrees	(1		TEMP	4/11/23	RAMBOLL
Field Conductivity		971	0	umhos		1		FCOND25	4/11/23	RAMBOLL
Field pH		7.5	0.1	Units	0.1	1		FIELDPH	4/11/23	RAMBOLL
Total Fluoride		Less Than	0.6	mg/L	2.0	20		EPA 300.0	4/22/23	057
Total Chloride		69	1.0	mg/L	3.4	20		EPA 300.0	4/22/23	057
Total Sulfate		130	2.0	mg/L	6.8	20		EPA 300.0	4/22/23	057
Total Boron		90	10	ug/L	50	1		EPA 200.7	4/25/23	057
Total Calcium		99000	400	ug/L	1300	10		EPA 200.7	4/25/23	057
Dissolved Boron		90	8	ug/L	30	1		EPA 200.7	4/24/23	057
Dissolved Calcium		100000	200	ug/L	600	10		EPA 200.7	4/25/23	057
Dissolved Sulfate		130	1.0	mg/L	3.4	10		EPA 300.0	4/22/23	057
Dissolved Chloride		73	0.5	mg/L	1.7	10		EPA 300.0	4/22/23	057
Total Dissolved Solids		620	10	mg/L	10	1	H1	Std Mtd 2540 C	4/20/23	057

Sample Description:	W-74	P4 Landfill (P4 Landfill CCR Well Sample								
Sample ID:	AE65954		Sample Collection Date/Time:				1/2023	11:16			
Sample Received:	04/12/202	3	Sample Collector:			RAN	RAMBOLL				
							Result	Analysis	Analysis		
<u>Parameter</u>		Result	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Flag</u>	Method	<u>Date</u>	<u>Analyst</u>	
Field Water Level		17.93	0.05	feet		1		H2OD	4/11/23	RAMBOLL	
Field Temperature		18.2	0.1	Degrees	(1		TEMP	4/11/23	RAMBOLL	
Field Conductivity		584	0	umhos		1		FCOND25	4/11/23	RAMBOLL	
Field pH		7.5	0.1	Units	0.1	1		FIELDPH	4/11/23	RAMBOLL	
Total Fluoride		1.0	0.6	mg/L	2.0	20	J	EPA 300.0	4/13/23	057	
Total Chloride		14	1.0	mg/L	3.4	20		EPA 300.0	4/13/23	057	
Total Sulfate		150	2.0	mg/L	6.8	20		EPA 300.0	4/13/23	057	
Total Boron		410	10	ug/L	50	1		EPA 200.7	4/25/23	057	
Total Calcium		19000	40	ug/L	100	1		EPA 200.7	4/24/23	057	
Total Alkalinity as CaCO3		100	2	mg/L	6	1		SM 2320 B-1997	4/21/23	057	
Total Copper		Less Than	4	ug/L	10	1		EPA 200.7	4/24/23	057	
Total Hardness as CaCO3		110	1	mg/L		1		Std Mtd 2340B	4/24/23	057	
Total Magnesium		15000	40	ug/L	100	1		EPA 200.7	4/24/23	057	
Total Manganese		50	4	ug/L	10	1		EPA 200.7	4/24/23	057	
Nitrate-Nitrite as N		Less Than	0.40	mg/L	0.72	20		EPA 300.0	4/13/23	057	
Total Silver		Less Than	20	ug/L	70	1		EPA 200.7	4/17/23	057	
Total Zinc		Less Than	20	ug/L	70	1		EPA 200.7	4/24/23	057	

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

Sample Description: W-74 P4 Landfill CCR Well Sample

Sample ID: AE65954 Sample Collection Date/Time: 04/11/2023 11:16

Sample Received: 04/12/2023 Sample Collector: RAMBOLL

Analysis Result **Analysis** LOD LOQ DIL Flag Method Result **Units Date Analyst Parameter** Total Dissolved Solids 370 10 mg/L 10 1 Η1 Std Mtd 2540 C 4/20/23 057

Sample Comments:

Sample Description: W-75 P4 Landfill CCR Well Sample

Sample ID: AE65955 Sample Collection Date/Time: 04/11/2023 11:58
Sample Received: 04/12/2023 Sample Collector: RAMBOLL

Result LOD Units LOQ DIL Flag Method Analyst Date **Parameter** 20.08 RAMBOLL Field Water Level 0.05 H2OD 4/11/23 feet 1 RAMBOLL Field Temperature 11.7 0.1 1 TEMP 4/11/23 Degrees (RAMBOLL Field Conductivity 530 0 umhos 1 FCOND25 4/11/23 RAMBOLL 4/11/23 Field pH 8.1 0.1 Units 0.1 1 FIELDPH Total Fluoride 1.0 0.6 2.0 20 J EPA 300.0 4/13/23 057 mg/L Total Chloride 8.9 1.0 mg/L 3.4 20 EPA 300.0 4/13/23 057 Total Sulfate 120 2.0 mg/L 6.8 20 EPA 300.0 4/13/23 057 10 4/25/23 057 Total Boron 430 ug/L 50 1 EPA 200.7 19000 40 4/24/23 057 Total Calcium ug/L 100 1 EPA 200.7 2 4/21/23 057 Total Alkalinity as CaCO3 120 6 SM 2320 B-1997 mg/L057 Less Than 4 10 1 EPA 200.7 4/24/23 Total Copper ug/L Total Hardness as CaCO3 100 1 mg/L Std Mtd 2340B 4/24/23 057 Total Magnesium 13000 40 ug/L 100 EPA 200.7 4/24/23 057 Total Manganese 10 4 ug/L 10 1 EPA 200.7 4/24/23 057 Nitrate-Nitrite as N Less Than 0.40 0.72 20 EPA 300.0 4/13/23 057 mg/L

ug/L

ug/L

mg/L

70

70

10

1

1

1

Η1

Result

Analysis

EPA 200.7

EPA 200.7

Std Mtd 2540 C

Analysis

4/17/23

4/24/23

4/20/23

057

057

057

Sample Comments:

Total Dissolved Solids

Total Silver

Total Zinc

Sample Description: W-77 P4 Landfill CCR Well Sample

Sample ID: AE65956 Sample Collection Date/Time: 04/11/2023 12:46
Sample Received: 04/12/2023 Sample Collector: RAMBOLL

20

20

10

Less Than

Less Than

340

Result Analysis **Analysis** LOD LOQ DIL Method Result Units Flag **Date** Analyst **Parameter** Field Water Level 16.25 0.05 feet 1 H2OD 4/11/23 RAMBOLL RAMBOLL TEMP Field Temperature 11.5 0.1 Degrees (1 4/11/23 RAMBOLL Field Conductivity 560 0 umhos 1 FCOND25 4/11/23 RAMBOLL Field pH 7.7 0.1 Units 0.1 FIELDPH 4/11/23 1 0.6 057 Total Fluoride 1.1 mg/L 2.0 20 J EPA 300.0 4/13/23 Total Chloride 8.9 1.0 mg/L 3.4 20 EPA 300.0 4/13/23 057 057 Total Sulfate 130 2.0 mg/L 6.8 20 EPA 300.0 4/13/23

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

Sample Description:	W-77	P4 Landfill CCR Well Sample	R Well Sample							
Sample ID:	AE65956	Sample Collection Date/Time:	04/11/2023	12:46						

Sample Received: 04/12/2023 Sample Collector: RAMBOLL

						Result	Analysis	Analysis	
<u>Parameter</u>	Result	LOD	<u>Units</u>	LOQ	DIL	<u>Flag</u>	Method	<u>Date</u>	<u>Analyst</u>
Total Boron	420	10	ug/L	50	1		EPA 200.7	4/25/23	057
Total Calcium	24000	40	ug/L	100	1		EPA 200.7	4/24/23	057
Total Alkalinity as CaCO3	150	2	mg/L	6	1		SM 2320 B-1997	4/21/23	057
Total Copper	Less Than	4	ug/L	10	1		EPA 200.7	4/24/23	057
Total Hardness as CaCO3	120	1	mg/L		1		Std Mtd 2340B	4/24/23	057
Total Magnesium	13000	40	ug/L	100	1		EPA 200.7	4/24/23	057
Total Manganese	70	4	ug/L	10	1		EPA 200.7	4/24/23	057
Nitrate-Nitrite as N	Less Than	0.40	mg/L	0.72	20		EPA 300.0	4/13/23	057
Total Silver	Less Than	20	ug/L	70	1		EPA 200.7	4/17/23	057
Total Zinc	Less Than	20	ug/L	70	1		EPA 200.7	4/24/23	057
Total Dissolved Solids	360	10	mg/L	10	1	H1	Std Mtd 2540 C	4/20/23	057

Sample Comments:

Sample Description: QAQC01 P4 Landfill CCR Well Sample
Sample ID: AE65957 Sample Collection Date/Time: 04/11/2023 12:51

Sample Received: 04/12/2023 Sample Collector: RAMBOLL

Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
<u>r ar ameter</u>	<u> 1105411</u>	<u> 202</u>	CIIII	200	<u> 212</u>	<u></u>	11101104	2400	111111,750
Total Fluoride	1.0	0.6	mg/L	2.0	20	J	EPA 300.0	4/13/23	057
Total Chloride	9.0	1.0	mg/L	3.4	20		EPA 300.0	4/13/23	057
Total Sulfate	130	2.0	mg/L	6.8	20		EPA 300.0	4/13/23	057
Total Boron	430	10	ug/L	50	1		EPA 200.7	4/25/23	057
Total Calcium	24000	40	ug/L	100	1		EPA 200.7	4/24/23	057
Total Alkalinity as CaCO3	140	2	mg/L	6	1		SM 2320 B-1997	4/21/23	057
Total Copper	Less Than	4	ug/L	10	1		EPA 200.7	4/24/23	057
Total Hardness as CaCO3	120	1	mg/L		1		Std Mtd 2340B	4/24/23	057
Total Magnesium	13000	40	ug/L	100	1		EPA 200.7	4/24/23	057
Total Manganese	70	4	ug/L	10	1		EPA 200.7	4/24/23	057
Nitrate-Nitrite as N	Less Than	0.40	mg/L	0.72	20		EPA 300.0	4/13/23	057
Total Silver	Less Than	20	ug/L	70	1		EPA 200.7	4/17/23	057
Total Zinc	Less Than	20	ug/L	70	1		EPA 200.7	4/24/23	057
Total Dissolved Solids	390	10	mg/L	10	1	H1	Std Mtd 2540 C	4/20/23	057

Sample Comments:

Sample Description: W-76 P4 Landfill CCR Well Sample

Sample ID: AE65958 Sample Collection Date/Time: 04/11/2023 13:45

Sample Received: 04/12/2023 Sample Collector: RAMBOLL

						Result	Analysis	Analysis	
<u>Parameter</u>	Result	<u>LOD</u>	<u>Units</u>	LOQ	<u>DIL</u>	<u>Flag</u>	Method	<u>Date</u>	Analyst
Field Water Level	22.48	0.05	feet		1		H2OD	4/11/23	RAMBOLL

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

18

650

11000

2.0

10

40

Sample Description:	W-76	P4 Landfill CCR Well Sample		
Sample ID:	AE65958	Sample Collection Date/Time:	04/11/2023	13:45
Sample Received:	04/12/2023	Sample Collector:	RAMBOLL	

						Result	Analysis	Analysis	
<u>Parameter</u>	Result	LOD	<u>Units</u>	LOQ	<u>DIL</u>	<u>Flag</u>	Method	<u>Date</u>	<u>Analyst</u>
Field Temperature	12.6	0.1	Degrees	(1		TEMP	4/11/23	RAMBOLL
Field Conductivity	533	0	umhos		1		FCOND25	4/11/23	RAMBOLL
Field pH	8.2	0.1	Units	0.1	1		FIELDPH	4/11/23	RAMBOLL
Total Fluoride	0.9	0.6	mg/L	2.0	20	J	EPA 300.0	4/13/23	057
Total Chloride	11	1.0	mg/L	3.4	20		EPA 300.0	4/13/23	057
Total Sulfate	130	2.0	mg/L	6.8	20		EPA 300.0	4/13/23	057
Total Boron	450	10	ug/L	50	1		EPA 200.7	4/25/23	057
Total Calcium	18000	40	ug/L	100	1		EPA 200.7	4/24/23	057
Total Alkalinity as CaCO3	110	2	mg/L	6	1		SM 2320 B-1997	4/21/23	057
Total Copper	Less Than	4	ug/L	10	1		EPA 200.7	4/24/23	057
Total Hardness as CaCO3	95	1	mg/L		1		Std Mtd 2340B	4/24/23	057
Total Magnesium	12000	40	ug/L	100	1		EPA 200.7	4/24/23	057
Total Manganese	20	4	ug/L	10	1		EPA 200.7	4/24/23	057
Nitrate-Nitrite as N	Less Than	0.40	mg/L	0.72	20		EPA 300.0	4/13/23	057
Total Silver	Less Than	20	ug/L	70	1		EPA 200.7	4/17/23	057
Total Zinc	Less Than	20	ug/L	70	1		EPA 200.7	4/24/23	057
Total Dissolved Solids	350	10	mg/L	10	1	H1	Std Mtd 2540 C	4/20/23	057

Sample Comments:

Sample Description: Sample ID: Sample Received:	W-17BR P4 Landfill C AE65959 04/12/2023	Samp	1	Date/Time:		1/2023 MBOLL	14:14		
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	Analyst
Field Water Level	13.13	0.05	feet		1		H2OD	4/11/23	RAMBOLL
Field Temperature	11.5	0.1	Degrees	l	1		TEMP	4/11/23	RAMBOLL
Field Conductivity	284	0	umhos		1		FCOND25	4/11/23	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	4/11/23	RAMBOLL
Total Dissolved Solids	200	10	mg/L	10	1	H1	Std Mtd 2540 C	4/20/23	057
Total Fluoride	1.5	0.6	mg/L	2.0	20	J	EPA 300.0	4/13/23	057
Total Chloride	8.8	1.0	mg/L	3.4	20		EPA 300.0	4/13/23	057

mg/L

ug/L

ug/L

6.8

50

100

20

1

1

EPA 300.0

EPA 200.7

EPA 200.7

4/13/23

4/25/23

4/24/23

057

057

057

Sample Comments:

Total Sulfate

Total Boron

Total Calcium

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

G 1 D 1.1	*** =2	DAT TOU COD WILL I
Sample Description:	W-73	P4 Landfill CCR Well Sample

Sample ID: AE65960 Sample Collection Date/Time: 04/11/2023 15:05

Sample Received: 04/12/2023 Sample Collector: RAMBOLL

						Result	Analysis	Analysis	
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Flag</u>	Method	<u>Date</u>	Analyst
Field Water Level	20.68	0.05	feet		1		H2OD	4/11/23	RAMBOLL
Field Temperature	11.8	0.1	Degrees (1		TEMP	4/11/23	RAMBOLL
Field Conductivity	522	0	umhos		1		FCOND25	4/11/23	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	4/11/23	RAMBOLL
Total Fluoride	1.0	0.6	mg/L	2.0	20	J	EPA 300.0	4/13/23	057
Total Chloride	12	1.0	mg/L	3.4	20		EPA 300.0	4/13/23	057
Total Sulfate	130	2.0	mg/L	6.8	20		EPA 300.0	4/13/23	057
Total Boron	440	10	ug/L	50	1		EPA 200.7	4/25/23	057
Total Calcium	18000	40	ug/L	100	1		EPA 200.7	4/24/23	057
Total Alkalinity as CaCO3	110	2	mg/L	6	1		SM 2320 B-1997	4/21/23	057
Total Copper	Less Than	4	ug/L	10	1		EPA 200.7	4/24/23	057
Total Hardness as CaCO3	94	1	mg/L		1		Std Mtd 2340B	4/24/23	057
Total Magnesium	12000	40	ug/L	100	1		EPA 200.7	4/24/23	057
Total Manganese	7.0	4	ug/L	10	1	J	EPA 200.7	4/24/23	057
Nitrate-Nitrite as N	Less Than	0.40	mg/L	0.72	20		EPA 300.0	4/13/23	057
Total Silver	Less Than	20	ug/L	70	1		EPA 200.7	4/13/23	057
Total Zinc	Less Than	20	ug/L	70	1		EPA 200.7	4/24/23	057
Dissolved Boron	460	8	ug/L	30	1		EPA 200.7	4/24/23	057
Dissolved Calcium	18000	20	ug/L	60	1		EPA 200.7	4/24/23	057
Dissolved Sulfate	130	1.0	mg/L	3.4	10		EPA 300.0	4/24/23	057
Dissolved Chloride	15	0.5	mg/L	1.7	10		EPA 300.0	4/22/23	057
Total Dissolved Solids	340	10	mg/L	10	1	H1	Std Mtd 2540 C	4/20/23	057

Sample Comments:

Sample Description:	EB-1	P4 Landfill CCR Well Sample
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Sample ID: AE65961 Sample Collection Date/Time: 04/11/2023 16:20 Sample Received: 04/12/2023 Sample Collector: RAMBOLL

	1							
					Result	Analysis	Analysis	
Result	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	DIL	<u>Flag</u>	Method	<u>Date</u>	<u>Analyst</u>
19.1	0.1	Degrees	(1		TEMP	4/11/23	RAMBOLL
16	0	umhos		1		FCOND25	4/11/23	RAMBOLL
6.9	0.1	Units	0.1	1		FIELDPH	4/11/23	RAMBOLL
Less Than	0.6	mg/L	2.0	20		EPA 300.0	4/13/23	057
Less Than	1.0	mg/L	3.4	20		EPA 300.0	4/13/23	057
Less Than	2.0	mg/L	6.8	20		EPA 300.0	4/13/23	057
Less Than	10	ug/L	50	1		EPA 200.7	4/25/23	057
60	40	ug/L	100	1	J	EPA 200.7	4/24/23	057
2	2	mg/L	6	1	J	SM 2320 B-1997	4/21/23	057
Less Than	4	ug/L	10	1		EPA 200.7	4/24/23	057
Less Than	0.27	mg/L	1.0	1		Std Mtd 2340B	4/24/23	057
Less Than	40	ug/L	100	1		EPA 200.7	4/24/23	057
Less Than	4	ug/L	10	1		EPA 200.7	4/24/23	057
Less Than	0.40	mg/L	0.72	20		EPA 300.0	4/13/23	057
	19.1 16 6.9 Less Than Less Than Less Than 60 2 Less Than Less Than Less Than Less Than Less Than	19.1 0.1 16 0 6.9 0.1 Less Than 0.6 Less Than 1.0 Less Than 2.0 Less Than 10 60 40 2 2 Less Than 4 Less Than 0.27 Less Than 40 Less Than 40 Less Than 4	19.1 0.1 Degrees 16 0 umhos 6.9 0.1 Units Less Than 0.6 mg/L Less Than 1.0 mg/L Less Than 2.0 mg/L Less Than 10 ug/L 60 40 ug/L 2 2 mg/L Less Than 4 ug/L Less Than 0.27 mg/L Less Than 40 ug/L Less Than 4 ug/L	19.1 0.1 Degrees (16 0 umhos 6.9 0.1 Units 0.1 Less Than 0.6 mg/L 2.0 Less Than 1.0 mg/L 3.4 Less Than 2.0 mg/L 6.8 Less Than 10 ug/L 50 60 40 ug/L 100 2 2 mg/L 6 Less Than 4 ug/L 10 Less Than 0.27 mg/L 1.0 Less Than 40 ug/L 100 Less Than 4 ug/L 100 Less Than 4 ug/L 100 Less Than 40 ug/L 100	19.1 0.1 Degrees (1 16 0 umhos 1 6.9 0.1 Units 0.1 1 Less Than 0.6 mg/L 2.0 20 Less Than 1.0 mg/L 3.4 20 Less Than 2.0 mg/L 6.8 20 Less Than 10 ug/L 50 1 60 40 ug/L 100 1 2 2 mg/L 6 1 Less Than 4 ug/L 10 1 Less Than 40 ug/L 100 1 Less Than 4 ug/L 100 1 Less Than 4 ug/L 100 1	Result LOD Units LOQ DIL Flag 19.1 0.1 Degrees (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Result LOD Units LOQ DIL Flag Method 19.1 0.1 Degrees (1 1 TEMP) 1 TEMP 16 0 umhos 1 FCOND25 6.9 0.1 Units 0.1 1 FIELDPH Less Than 0.6 mg/L 2.0 20 EPA 300.0 EPA 300.0 Less Than 1.0 mg/L 3.4 20 EPA 300.0 EPA 300.0 Less Than 2.0 mg/L 6.8 20 EPA 300.0 EPA 200.7 60 40 ug/L 100 1 EPA 200.7 EPA 200.7 2 mg/L 6 1 J SM 2320 B-1997 Ees Than 4 ug/L 10 1 EPA 200.7 Less Than 0.27 mg/L 1.0 1 EPA 200.7 EPA 200.7 Less Than 40 ug/L 100 1 EPA 200.7 EPA 200.7 Less Than 40 ug/L 100 1 EPA 200.7 EPA 200.7	Result LOD Units LOQ DIL Flag Method Date 19.1 0.1 Degrees (1 TEMP 4/11/23 16 0 umhos 1 FCOND25 4/11/23 6.9 0.1 Units 0.1 1 FIELDPH 4/11/23 Less Than 0.6 mg/L 2.0 20 EPA 300.0 4/13/23 Less Than 1.0 mg/L 3.4 20 EPA 300.0 4/13/23 Less Than 2.0 mg/L 6.8 20 EPA 300.0 4/13/23 Less Than 10 ug/L 50 1 EPA 200.7 4/25/23 60 40 ug/L 100 1 J EPA 200.7 4/24/23 Less Than 4 ug/L 10 1 EPA 200.7 4/24/23 Less Than 40 ug/L 100 1 EPA 200.7 4/24/23 Less Than 40 ug/L 100

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

Sample Description: EB-1 P4 Landfill CCR Well Sample

Sample ID: AE65961 Sample Collection Date/Time: 04/11/2023 16:20

Sample Received: 04/12/2023 Sample Collector: RAMBOLL

						Result	Analysis	Analysis	
<u>Parameter</u>	Result	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Flag</u>	<u>Method</u>	<u>Date</u>	Analyst
Total Silver	Less Than	20	ug/L	70	1		EPA 200.7	4/17/23	057
Total Zinc	Less Than	20	ug/L	70	1		EPA 200.7	4/24/23	057
Total Dissolved Solids	Less Than	10	mg/L	10	1	H1	Std Mtd 2540 C	4/20/23	057

Sample Comments:

If there are any questions concerning this report, please contact: Laboratory Services at (414) 221-4595.

LOD and LOQ are adjusted for dilution factor.

^{&#}x27;J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

To: Eric Kovatch

Sample Description:

PSB Annex A231

From: WEC Business Services

Laboratory Services PSBA-A070 WDNR Cert # 241329000

Report Date: Friday, December 1, 2023

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

W75 P4 Landfill CCR Well Sample

Sample ID: AE69686 Sample Collection Date/Time: 10/30/2023 09:46

Sample Received: 10/31/2023 Sample Collector: RAMBOLL

						Result	Analysis	Analysis	
<u>Parameter</u>	Result	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	DIL	<u>Flag</u>	<u>Method</u>	<u>Date</u>	<u>Analyst</u>
Field Water Level	25.09	0.05	feet		1		H2OD	10/30/23	RAMBOLL
Field Temperature	9.0	0.1	Degrees (1		TEMP	10/30/23	RAMBOLL
Field Conductivity	528	0	umhos		1		FCOND25	10/30/23	RAMBOLL
Field pH	7.4	0.1	Units	0.1	1		FIELDPH	10/30/23	RAMBOLL
Total Dissolved Solids	340	8.7	mg/L	20	1		Std Mtd 2540 C	11/2/23	020
Total Fluoride	1.2	0.095	mg/L	0.32	1		EPA 300.0	11/16/23	020
Total Chloride	8.7	0.59	mg/L	2.0	1		EPA 300.0	11/16/23	020
Total Sulfate	133	4.4	mg/L	20	10		EPA 300.0	11/15/23	020
Total Boron	434	17.3	ug/L	40	1		EPA 200.7	11/2/23	020
Total Calcium	19400	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Calcium	21100	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Chloride	8.7	0.59	mg/L	2	1		EPA 300.0	11/14/23	020
Dissolved Magnesium	14300	182	ug/L	1000	1		EPA 200.7	11/2/23	020
Dissolved Sodium	81500	350	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Sulfate	129	4.4	mg/L	20	10		EPA 300.0	11/14/23	020
Bicarbonate Ion	123	5.0	mg/L	10.0	1		HCO3	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Dissolved Potassium	3120	325	ug/L	1000	1		EPA 200.7	11/2/23	020
Total Alkalinity as CaCO3	124	5.0	mg/L	10.0	1		SM 2320 B-1997	11/9/23	020
Total Hardness as CaCO3	102	1.0	mg/L	5.4	1		Std Mtd 2340B	11/2/23	020
Dissolved Oxygen-Field	1.13	0.1	mg/l		1		FIELDDO	10/30/23	RAMBOLL
Turbidity	0.0	0.1	NTU'S		1		EPA 180.1	10/30/23	RAMBOLL
Redox Potential	167	1	mV		1		ASTM D1498-93	10/30/23	RAMBOLL

Sample Comments:

Sample Description: QA/QC1 P4 Landfill CCR Well Sample

Sample ID: AE69687 Sample Collection Date/Time: 10/30/2023 09:51

Sample Received: 10/31/2023 Sample Collector: RAMBOLL

						Result	Analysis	Analysis	
<u>Parameter</u>	Result	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Flag</u>	Method	Date	Analyst
Total Dissolved Solids	340	8.7	mg/L	20	1		Std Mtd 2540 C	11/2/23	020
Total Fluoride	1.1	0.095	mg/L	0.32	1		EPA 300.0	11/16/23	020
Total Chloride	8.7	0.59	mg/L	2.0	1		EPA 300.0	11/16/23	020
Total Sulfate	132	4.4	mg/L	20.0	10		EPA 300.0	11/15/23	020
Total Boron	416	17.3	ug/L	40.0	1		EPA 200.7	11/2/23	020

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

Sample Description:	OA/OC1	P4 Landfill	CCR V	Vell Samnle	,

Sample ID: AE69687 Sample Collection Date/Time: 10/30/2023 09:51

Sample Received: 10/31/2023 Sample Collector: RAMBOLL

						Result	Analysis	Analysis	
<u>Parameter</u>	Result	LOD	<u>Units</u>	LOQ	<u>DIL</u>	<u>Flag</u>	Method	<u>Date</u>	Analyst
Total Calcium	18500	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Calcium	19500	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Chloride	8.7	0.59	mg/L	2.0	1		EPA 300.0	11/14/23	020
Dissolved Magnesium	13200	182	ug/L	1000	1		EPA 200.7	11/2/23	020
Dissolved Sodium	75400	350	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Sulfate	133	4.4	mg/L	20	10		EPA 300.0	11/14/23	020
Bicarbonate Ion	126	5.0	mg/L	10.0	1		HCO3	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Dissolved Potassium	2820	325	ug/L	1000	1		EPA 200.7	11/2/23	020
Total Alkalinity as CaCO3	127	5.0	mg/L	10.0	1		SM 2320 B-1997	11/9/23	020
Total Hardness as CaCO3	97.5	1.0	mg/L	5.4	1		Std Mtd 2340B	11/2/23	020

Sample Comments:

Sample Description: W76 P4 Landfill CCR Well Sample

Sample ID: AE69688 Sample Collection Date/Time: 10/30/2023 10:54

Sample Received: 10/31/2023 Sample Collector: RAMBOLL

sumple received.	,,31,2023	Sump	ie conector.		1011	IDOLL			
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	LOQ	<u>DIL</u>	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>
Field Water Level	26.01	0.05	feet		1		H2OD	10/30/23	RAMBOLL
Field Temperature	10.1	0.1	Degrees	(1		TEMP	10/30/23	RAMBOLL
Field Conductivity	523	0	umhos		1		FCOND25	10/30/23	RAMBOLL
Field pH	8.3	0.1	Units	0.1	1		FIELDPH	10/30/23	RAMBOLL
Total Dissolved Solids	344	8.7	mg/L	20.0	1		Std Mtd 2540 C	11/2/23	020
Total Fluoride	1.1	0.095	mg/L	0.32	1		EPA 300.0	11/16/23	020
Total Chloride	10.6	0.59	mg/L	2.0	1		EPA 300.0	11/16/23	020
Total Sulfate	139	4.4	mg/L	20.0	10		EPA 300.0	11/15/23	020
Total Boron	450	17.3	ug/L	40	1		EPA 200.7	11/2/23	020
Total Calcium	18900	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Calcium	19400	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Chloride	10.6	0.59	mg/L	2	1		EPA 300.0	11/14/23	020
Dissolved Magnesium	12600	182	ug/L	1000	1		EPA 200.7	11/2/23	020
Dissolved Sodium	81800	350	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Sulfate	138	4.4	mg/L	20	10		EPA 300.0	11/2/23	020
Bicarbonate Ion	121	5.0	mg/L	10.0	1		HCO3	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Dissolved Potassium	2310	325	ug/L	1000	1		EPA 200.7	11/2/23	020
Total Alkalinity as CaCO3	122	5.0	mg/L	10.0	1		SM 2320 B-1997	11/9/23	020
Total Hardness as CaCO3	96.9	1.0	mg/L	5.4	1		Std Mtd 2340B	11/2/23	020
Dissolved Oxygen-Field	1.2	0.1	mg/l		1		FIELDDO	10/30/23	RAMBOLL
Turbidity	2.1	0.1	NTU'S		1		EPA 180.1	10/30/23	RAMBOLL
Redox Potential	-81	1	mV		1		ASTM D1498-93	10/30/23	RAMBOLL

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

Sample Comments:

Sample Description:

Sample Description:	W77 P4 Landfill CCR	Well Sample							
Sample ID:	AE69689	Samp	le Collection	n Date/Time:	10/30	0/2023	11:49		
Sample Received:	10/31/2023	Samp	le Collector		RAN	/BOLL			
Donomaton	Result	LOD	Units	LOQ	DIL	Result <u>Flag</u>	Analysis Method	Analysis <u>Date</u>	Analyst
<u>Parameter</u>				LOQ	DIL	riag	<u></u>		
Field Water Level	20.43	0.05	feet		1		H2OD	10/30/23	RAMBOL
Field Temperature	10.4	0.1	Degrees	(1		TEMP	10/30/23	RAMBOL
Field Conductivity	543	0	umhos		1		FCOND25	10/30/23	RAMBOLI
Field pH	7.8	0.1	Units	0.1	1		FIELDPH	10/30/23	RAMBOLI
Total Dissolved Solids	366	8.7	mg/L	20.0	1		Std Mtd 2540 C	11/2/23	020
Total Fluoride	1.2	0.095	mg/L	0.32	1		EPA 300.0	11/16/23	020
Total Chloride	8.1	0.59	mg/L	2.0	1		EPA 300.0	11/16/23	020
Total Sulfate	135	4.4	mg/L	20	10		EPA 300.0	11/15/23	020
Total Boron	428	17.3	ug/L	40.0	1		EPA 200.7	11/2/23	020
Total Calcium	24500	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Calcium	25400	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Chloride	8.1	0.59	mg/L	2.0	1		EPA 300.0	11/16/23	020
Dissolved Magnesium	14100	182	ug/L	1000	1		EPA 200.7	11/2/23	020
Dissolved Sodium	84300	350	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Sulfate	135	4.4	mg/L	20.0	10		EPA 300.0	11/14/23	020
Bicarbonate Ion	147	5.0	mg/L	10.0	1		HCO3	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Dissolved Potassium	2280	325	ug/L	1000	1		EPA 200.7	11/2/23	020
Total Alkalinity as CaCO3	147	5.0	mg/L	10.0	1		SM 2320 B-1997	11/9/23	020
Total Hardness as CaCO3	117	1.0	mg/L	5.4	1		Std Mtd 2340B	11/2/23	020
Redox Potential	-63	1	mV		1		ASTM D1498-93	10/30/23	RAMBOLI
Turbidity	2.4	0.1	NTU'S		1		EPA 180.1	10/30/23	RAMBOLI
Dissolved Oxygen-Field	1.2	0.1	mg/l		1		FIELDDO	10/30/23	RAMBOLI
Sample Comments:									

Sample ID:	AE69690	Sample Collection Date/Time:		10/30/2023		12:53			
Sample Received:	10/31/2023	Sample Collector:		RAMBOLL					
Parameter	<u>Result</u>	<u>LOD</u>	<u>Units</u>	LOQ	DIL	Result <u>Flag</u>	Analysis Method	Analysis <u>Date</u>	Analyst
Field Water Level	24.06			· · · · · · · · · · · · · · · · · · ·	1		HIOD	10/20/22	RAMBOLL
Field water Level	24.96	0.05	feet		1		H2OD	10/30/23	KAMBOLL
Field Temperature	11.8	0.1	Degrees (1		TEMP	10/30/23	RAMBOLL
Field Conductivity	459	0	umhos		1		FCOND25	10/30/23	RAMBOLL
Field pH	8.24	0.1	Units	0.1	1		FIELDPH	10/30/23	RAMBOLL
Total Dissolved Solids	338	8.7	mg/L	20.0	1		Std Mtd 2540 C	11/1/23	020
Total Fluoride	1.1	0.095	mg/L	0.32	1		EPA 300.0	11/1/23	020
Total Chloride	11.2	0.59	mg/L	2.0	1		EPA 300.0	11/1/23	020
Total Sulfate	132	4.4	mg/L	20.0	1		EPA 300.0	11/1/23	020

W73 P4 Landfill CCR Well Sample

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

Sample Description: W73 P4 Landfill CCR Well Sample

Sample ID: AE69690 Sample Collection Date/Time: 10/30/2023 12:53

Sample Received: 10/31/2023 Sample Collector: RAMBOLL

						Result	Analysis	Analysis	
<u>Parameter</u>	Result	<u>LOD</u>	<u>Units</u>	<u>LOQ</u>	<u>DIL</u>	<u>Flag</u>	Method	<u>Date</u>	Analyst
Total Boron	447	17.3	ug/L	40.0	1		EPA 200.7	11/2/23	020
Total Calcium	19000	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Calcium	18200	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Chloride	11.1	0.59	mg/L	2.0	1		EPA 300.0	11/1/23	020
Dissolved Magnesium	12100	182	ug/L	1000	1		EPA 200.7	11/2/23	020
Dissolved Sodium	75800	350	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Sulfate	134	4.4	mg/L	20.0	1		EPA 300.0	11/1/23	020
Bicarbonate Ion	117	5.0	mg/L	10.0	1		HCO3	11/8/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/8/23	020
Dissolved Potassium	1460	325	ug/L	1000	1		EPA 200.7	11/2/23	020
Total Alkalinity as CaCO3	120	5.0	mg/L	10.0	1		SM 2320 B-1997	11/1/23	020
Total Hardness as CaCO3	98.7	1	mg/L	5.4	1		Std Mtd 2340B	11/2/23	020
Total Filtered Alkalinity as CaCO3	117	5.0	mg/l	10.0	1		Std Mtd 2320 B	11/1/23	020
Dissolved Boron	0.445	0.0173	mg/L	0.040	1		EPA 200.7	11/2/23	020
Dissolved Selenium	Less Than	0.0122	mg/L	0.04	1		EPA 200.7	11/2/23	020
Dissolved Organic Carbon	2.1	0.19	ppm	0.50	1		Std Mtd 5310C	11/1/23	020
Dissolved Molybdenum	0.105	0.0024	mg/L	0.010	1		EPA 200.7	11/2/23	020
Redox Potential	-150	1	mV		1		ASTM D1498-93	10/30/23	RAMBOLL
Turbidity	14.1	0.1	NTU'S		1		EPA 180.1	10/30/23	RAMBOLL
Dissolved Oxygen-Field	0.9	0.1	mg/l		1		FIELDDO	10/30/23	RAMBOLL

Sample Comments:

Sample Description: W74 P4 Landfill CCR Well Sample

Sample ID: AE69691 Sample Collection Date/Time: 10/30/2023 13:52

mple Received: 10/31/2023 Sample Collector: RAMBOL

Sample Received:	10/31/2023	Sample Collector:		RAMBOLL					
<u>Parameter</u>	<u>Result</u>	<u>LOD</u>	<u>Units</u>	LOQ	DIL	Result <u>Flag</u>	Analysis <u>Method</u>	Analysis <u>Date</u>	<u>Analyst</u>
Field Water Level	23.03	0.05	feet		1		H2OD	10/30/23	RAMBOLL
Field Temperature	10.7	0.1	Degrees	•	1		TEMP	10/30/23	RAMBOLL
Field Conductivity	556	0	umhos		1		FCOND25	10/30/23	RAMBOLL
Field pH	8.2	0.1	Units	0.1	1		FIELDPH	10/30/23	RAMBOLL
Total Dissolved Solids	372	8.7	mg/L	20.0	1		Std Mtd 2540 C	11/2/23	020
Total Fluoride	1.1	0.095	mg/L	0.32	1		EPA 300.0	11/1/23	020
Total Chloride	13.2	0.59	mg/L	2.0	1		EPA 300.0	11/1/23	020
Total Sulfate	162	4.4	mg/L	20.0	10		EPA 300.0	11/2/23	020
Total Boron	423	17.3	ug/L	40.0	1		EPA 200.7	11/2/23	020
Total Calcium	19400	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Calcium	19700	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Chloride	14.5	0.59	mg/L	2.0	1		EPA 300.0	11/14/23	020
Dissolved Magnesium	15500	182	ug/L	1000	1		EPA 200.7	11/2/23	020
Dissolved Sodium	85200	350	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Sulfate	158	4.4	mg/L	20.0	10		EPA 300.0	11/15/23	020
Bicarbonate Ion	113	5.0	mg/L	10.0	1		HCO3	11/13/23	020

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

Sample Description: W74 P4 Landfill CCR Well Sample

Sample ID: AE69691 Sample Collection Date/Time: 10/30/2023 13:52

Sample Received: 10/31/2023 Sample Collector: RAMBOLL

						Result	Analysis	Analysis	
<u>Parameter</u>	Result	<u>LOD</u>	<u>Units</u>	LOQ	<u>DIL</u>	<u>Flag</u>	Method	<u>Date</u>	<u>Analyst</u>
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Dissolved Potassium	2180	325	ug/L	1000	1		EPA 200.7	11/2/23	020
Nitrite	Less Than	0.021	mg/L	0.10	1		EPA 300.0	11/1/23	020
Nitrate	Less Than	0.044	mg/L	0.15	1		EPA 300.0	11/1/23	020
Total Copper	Less Than	0.0034	mg/L	0.010	1		EPA 200.7	11/2/23	020
Total Manganese	0.0167	0.0015	mg/L	0.005	1		EPA 200.7	11/2/23	020
Total Silver	Less Than	0.0032	mg/L	0.010	1		EPA 200.7	11/2/23	020
Total Zinc	Less Than	0.0116	mg/L	0.040	1		EPA 200.7	11/2/23	020
Total Alkalinity as CaCO3	112	5	mg/L	10	1		SM 2320 B-1997	11/9/23	020
Total Hardness as CaCO3	111	1.0	mg/L	5.4	1		Std Mtd 2340B	11/3/23	020
Dissolved Oxygen-Field	0.2	0.1	mg/l		1		FIELDDO	10/30/23	RAMBOLL
Turbidity	0.0	0.1	NTU'S		1		EPA 180.1	10/30/23	RAMBOLL
Redox Potential	-183	1	mV		1		ASTM D1498-93	10/30/23	RAMBOLL

Sample Comments:

Sample Description: EB-3 P4 Landfill CCR Well Sample

Sample ID: AE69692 Sample Collection Date/Time: 10/30/2023 15:00

Sample Received: 10/31/2023 Sample Collector: RAMBOLL

•		•				D 14			
Parameter	Result	LOD	Units	LOQ	DIL	Result Flag	Analysis Method	Analysis Date	Analyst
<u> </u>		0.7		· <u></u>				11/2/22	020
Total Dissolved Solids	26	8.7	mg/L	20	1		Std Mtd 2540 C	11/2/23	020
Total Fluoride	Less Than	0.095	mg/L	0.32	1		EPA 300.0	11/2/23	020
Total Chloride	Less Than	0.59	mg/L	2.0	1		EPA 300.0	11/2/23	020
Total Sulfate	Less Than	0.44	mg/L	2.0	1		EPA 300.0	11/2/23	020
Total Boron	Less Than	17.3	ug/L	40	1		EPA 200.7	11/2/23	020
Total Calcium	Less Than	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Calcium	Less Than	114	ug/L	500	1		EPA 200.7	11/2/23	020
Dissolved Chloride	Less Than	0.59	mg/L	2.0	1		EPA 300.0	11/14/23	020
Dissolved Magnesium	Less Than	182	ug/L	1000	1		EPA 200.7	11/2/23	020
Dissolved Sodium	383	350	ug/L	500	1	J	EPA 200.7	11/2/23	020
Dissolved Sulfate	Less Than	0.44	mg/L	2.0	1		EPA 300.0	11/14/23	020
Bicarbonate Ion	Less Than	5.0	mg/L	10.0	1		HCO3	11/13/23	020
Carbonate Ion	Less Than	5.0	mg/L	10.0	1		CO3	11/13/23	020
Dissolved Potassium	Less Than	325	ug/L	1000	1		EPA 200.7	11/2/23	020
Total Copper	Less Than	0.0034	mg/L	0.010	1		EPA 200.7	11/2/23	020
Total Manganese	Less Than	0.0015	mg/L	0.005	1		EPA 200.7	11/2/23	020
Total Silver	Less Than	0.0032	mg/L	0.010	1		EPA 200.7	11/2/23	020
Total Zinc	Less Than	0.0116	mg/L	0.040	1		EPA 200.7	11/2/23	020
Total Alkalinity as CaCO3	Less Than	5	mg/L	10	1		SM 2320 B-1997	11/9/23	020
Total Hardness as CaCO3	Less Than	1.0	mg/L	5.4	1		Std Mtd 2340B	11/2/23	020
Dissolved Organic Carbon	Less Than	0.19	ppm	0.50	1		Std Mtd 5310C	11/8/23	020
Total Hardness as CaCO3	Less Than	1.0	mg/L	5.4	1		Std Mtd 2340B	11/2/23	020
Nitrite	Less Than	0.021	mg/L	0.10	1	H1	EPA 300.0	11/2/23	020

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

Sample Description: EB-3 P4 Landfill CCR Well Sample

Sample ID: AE69692 Sample Collection Date/Time: 10/30/2023 15:00

Sample Received: 10/31/2023 Sample Collector: RAMBOLL

						Result	Analysis	Analysis	
<u>Parameter</u>	Result	LOD	<u>Units</u>	LOQ	DIL	<u>Flag</u>	Method	<u>Date</u>	Analyst
Nitrate	Less Than	0.044	mg/L	0.15	1	H1	EPA 300.0	11/2/23	020

Sample Comments:

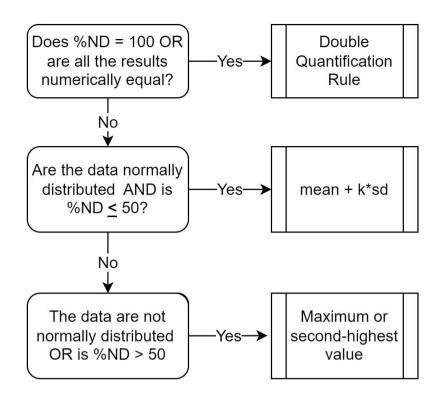
LOD and LOQ are adjusted for dilution factor.

If there are any questions concerning this report, please contact: Laboratory Services at (414) 221-4595.

^{&#}x27;J' Flag, if present indicates an estimated concentration at or above the LOD and below the LOQ.

APPENDIX B
STATISTICAL METHODOLOGY FOR DETERMINATION OF BACKGROUND VALUES

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



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

